



Noé Jiménez González

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Noé Jiménez is Senior Permanent Researcher ("Científico Titular") at Institute of Instrumentation for Molecular Imaging (I3M, CSIC) since 2024. He started his career in 2010 by an excellence scholarship awarded to the best academic record. In 2015 he obtained the PhD degree with Cum Laude, European and Extraordinary Prize mentions, at UPV. In 2015, he joined the CNRS (UMR 6613, France) with a postdoctoral contract to develop novel acoustic metamaterials. He obtained a **Juan de la Cierva** – Formación (2017) and **Juan de la Cierva** – Incorporación (2019) and **Ramón y Cajal** excellence grants (2021) to join I3M at CSIC to research on ultrasonic metamaterials for biomedical applications under the supervision of José M. Benlloch ("Jaume I" and National Research Awards). Since 2019, he is the **head of the Therapeutic Ultrasound group** at I3M. Currently leads and funds 1 early-career post-doctoral researchers, 7 PhD students, and 3 laboratory technicians.

He has worked on 41 funded projects (**18 as Principal Investigator**, 2 as P.I. of the "Plan Nacional", funded by Spanish Ministry of Science) and 12 contracts (**3 as P.I.**) with private companies, rising as P.I. more than 1.8 M€ for his current institution in the last 5 years. He has published **54 articles in JCR journals**, (36 Q1, and 46 as first and/or corresponding author), **8 book chapters** and **edited 2 scientific books**. He has participated in **more than 300 conferences**, giving **35 invited talks** and **5 plenary lectures**. He holds a h-index of 29, an i10 of 52, and 3788 citations. He obtained a total of **6 postdoctoral grants (Ramón y Cajal)**.

His research ranges from fundamental research on mechanical waves in complex media to its application for **novel biomedical ultrasound techniques**. During his early carrier, he gathered deep knowledge on waves in structured media, and now he is applying state-of-the-art fundamentals to selected technological applications. During 2014 and 2018 he worked for the **European Space Agency** to control sound during the launch of the Vega system using metamaterials. Since 2016 he develops perfect absorbing metamaterials and acoustic diffusers, collaborating with the leader company RPG Acoustics (NJ, USA). In 2016, he participated in the European project COST action DENORMS for **technology transfer** in metamaterials. He has envisioned and validated the first lithotripter based on acoustic vortices for the painless fragmentation of kidney stones. He is author of **7 patents** for biomedical ultrasound (2 licensed). In 2020 **he founded a spin-off**, HOLOSONIC SL, where he has advised **two Torres Quevedo** grants. They have obtained a CDTI grant 9.5M€ to develop the first clinical and low-cost ultrasound neuromodulation device based on acoustic holograms.

In 2012, he obtained a grant to **stay at Columbia University** (NYC, USA) under the supervision of Elisa E. Konofagou, and developed methods for ultrasound-assisted blood-brain barrier opening. In 2019, he obtained a grant for a **second stay at CNRS**



(**Le Mans, France**), collaborating with Vicent Tournat and Vicent Pagneux. He maintains collaborations with Kestutis Staliunas and colleges (UPC, Spain/Vilnius Lithuania) on acoustic vortices. In 2016, he received a **European Union COST grant** for a **stay at the University of Salford** (Manchester, UK) under the supervision of Trevor J. Cox, world-renowned leader in acoustic materials, and produced the first sound diffuser based on metamaterials.

He was one of the first researchers to apply acoustic metamaterials and acoustic vortices to go beyond classical biomedical ultrasound technologies, and **has grown a worldwide network with hospitals and international research centers**. Between others, he has been collaborating with Dr. Cheng-Chia Wu, at the New-York Presbyterian Hospital (NY, USA), and the Urology and Neonatology units at La Fe Hospital (Valencia, Spain) to develop medical ultrasound instrumentation. With Dr. José Obeso at HM CINAC (Hospitales de Madrid, Spain) he is applying acoustic holograms for drug-delivery in the brain and neuromodulation. Since 2020 he collaborates with Vall d'Hebron Hospital, (Barcelona, Spain) to transfer to clinics novel therapeutic ultrasound applications. Since 2021 he is collaborating with Gail ter Haar at the Institute of Cancer Research (London, UK) and ICube UMR 7357 CNRS, (Strasbourg France) to design novel and low-cost chemotherapeutic applications using holographic hyperthermia.

Among other awards, he obtained the Young Investigator Award from the **Spanish Royal Society of Physics** (2019), and the Young Investigator Award from the Spanish Society of Acoustics (2011). He has supervised 25 Master thesis, **9 PhD students**, 7 of whom are still working on their degrees and 2 completed, one is now postdoc at Columbia University. He teaches undergraduate and master's degree courses at Universitat Politècnica de València and Universidad de Valencia, he has lectured 520 hours. Two parental leave periods (2023 and 2025).

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

PUBLICATIONS

- **Articles published in scientific journals:** 54 articles in JCR journals (36 Q1, 5 D1, 46 T1, 45 as first and/or corresponding author)
- **Scientific books or chapters:** 8 book chapters and edited 2 books.
- **Conferences:** participated in more than 250 conferences, giving 5 plenary lectures and 42 invited talks.
- **Invited seminars at universities:** +18 (Columbia University, Max Planck Institute for Intelligent Systems, Imperial College London ...)
- **Citations** (last 5 years) : 3788 (2937)
- **h Index** (last 5 years) : 29 (25)
- **i10 Index** (last 5 years) : 52 (43)
- **Sexenios:** 2 (last 2021)

INTERNATIONALIZATION

- **Stays in international mobility programs:** 4 (3 years, 3 months) Columbia University, (New York, USA); Salford University, (Manchester, UK); CNRS (Le Mans, France)
- **Projects and contracts carried out in international collaboration:** 4 (European Union, European Space Agency, Agence Nationale de la Recherche)
- **Main collaborating entities:** Columbia University (NYC, USA), University of California Los Angeles (LA, USA), Institute of Cancer Research (London, UK), RPG (New Jersey, USA), Salford University (Manchester, UK), London South Bank University (London, UK), King's College (London, UK), Université du Mans LAUM (France), Université de Tours UMR INSERM U1253 (France), Université de Strasbourg - CNRS (France), European Space Agency (France), MetAcoustic (France), University of Moscow (Russia), Universidad de Cali (Colombia), Instituto de Tecnologías Físicas y de la Información Leonardo Torres Quevedo CSIC (Spain), CINAC Hospitales de Madrid (Spain)
- **Organizing committees for international conferences** : 11 (IEEE IUS 2021-24, Forum Acusticum, META conferences 2022-24, FIA2024)
- **Chairman / moderator:** in >50 sessions of international congresses.
- **Journal reviewer:** >30 JCR journals (Phys. Rev. Lett., Nat. Coms., Science Adv....)
- **Grant reviewer:** ERC (EU), Fullbright (US), AEI (Spain), ANR (France), ANID (Chile), ...

LEADERSHIP

- **Projects as P.I.:** 17, including 2 "Plan Nacional (ES)" (+1.8 M€ total).
- **Contracts with private companies as P.I.:** 3 (+120 k€).
- **Resources raised as a P.I.:** +1.9 M€ in the last 5 years.



- **Competitive Post-doc grants:** 6 (including **Ramón y Cajal Senior** 2021 excellence grant, Juan de la Cierva - Formación 2016, Juan de la Cierva - Incorporación 2019, ANR-CNRS France 2015, GVA APOSTD-2016, UPV-2017 PAID).
- **Group leader:** Therapeutic Ultrasound at I3M (CSIC). Advisor of 2 early-career postdoctoral researchers, 8 PhD students and 3 laboratory technicians, with own funding.
- **Innovation Manager** at the Business Innovation Scientific Unit (Unitat Científica d'Innovació Empresarial, UCIE), of the I3M (CSIC-UPV), funded by "Agencia Valenciana de la Innovació" with 0.5 M€.
- Leader of the **Scientific Advisory Board** of HOLOSONIC SL
- **Awards:** 7 (RSEF, SFA, SEA, UPV, ...)



Noé Jiménez González

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ResearcherID: **A-6482-2011**
Date of birth: **24/02/1984**
Gender: **Male**
Nationality: **Spain**
Country of birth: **Spain**
Contact province: **Valencia**
City of birth: **Albacete**
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Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Department: Sistemas de Terapia e Imagen Médica, Instituto de Instrumentación para Imagen Molecular

Professional category: Científico Titular

Start date: 09/01/2024

Type of contract: Civil servant

Dedication regime: Full time

Identify key words: Physics - Acoustic physics; Medical images

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Politècnica de València	"Ramón y Cajal" postdoctoral researcher	01/01/2023
2	Universitat Politècnica de València	"Juan de la Cierva - Incorporación" postdoctoral researcher	01/01/2020
3	Universitat Politècnica de València	Postdoctoral researcher	16/09/2019
4	Consejo Superior de Investigaciones Científicas (CSIC)	Postdoctoral researcher	15/09/2017

	Employing entity	Professional category	Start date
5	Centre National de la Recherche Scientifique (CNRS)	Postdoctoral researcher	01/12/2015
6	Universitat Politècnica de València	Superior Research Technician (FPI)	01/12/2013
7	Universitat Politècnica de València	Predoctoral Contract (FPI)	01/12/2011
8	Universitat Politècnica de València	Excellence Research Grant "Beca de Excelencia"	01/02/2011
9	Universitat Politècnica de València	Researcher "Beca de Especialización de Primer Ciclo"	01/06/2010
10	Universitat Politècnica de València	Researcher "Beca de Colaboración"	01/02/2010
11	Universitat Politècnica de València	Researcher "Beca de Colaboración"	01/05/2009

- Employing entity:** Universitat Politècnica de València
Type of entity: University
Department: Instituto de Instrumentación para Imagen Molecular
City employing entity: Valencia, Spain
Professional category: "Ramón y Cajal" postdoctoral researcher
Start-End date: 01/01/2023 - 08/01/2024 **Duration:** 1 year - 8 days
Type of contract: Temporary employment contract
Performed tasks: Excellence postdoctoral contract funded by the Spanish Ministry of Science, Universities and Innovation through grant "Ramón y Cajal" (RYC2021-034920-I).
- Employing entity:** Universitat Politècnica de València
Type of entity: University
Department: Instituto de Instrumentación para Imagen Molecular
Professional category: "Juan de la Cierva - Incorporación" postdoctoral researcher
Start-End date: 01/01/2020 - 31/12/2022 **Duration:** 3 years
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Spanish Ministry of Science, Universities and Innovation through grant "Juan de la Cierva - Incorporación" (IJC2018-037897-I).
- Employing entity:** Universitat Politècnica de València
Type of entity: University
Department: Instituto de Instrumentación para Imagen Molecular
Professional category: Postdoctoral researcher
Start-End date: 16/09/2019 - 31/12/2019 **Duration:** 3 months - 15 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Agencia Valenciana de la Innovación, grant INNCON00/18/9
- Employing entity:** Consejo Superior de Investigaciones Científicas (CSIC)
Type of entity: State agency
Department: Instituto de Instrumentación para Imagen Molecular
City employing entity: Valencia, Spain
Professional category: Postdoctoral researcher
Start-End date: 15/09/2017 - 15/09/2019 **Duration:** 2 years
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Generalitat Valenciana through grant "Subvenciones para la contratación de personal investigador en fase postdoctoral" GVA-APOST-2017

- 5** **Employing entity:** Centre National de la Recherche Scientifique (CNRS)
Department: Laboratoire d'Acoustique de la Université du Maine, UMR-6613 CNRS
City employing entity: Le Mans, France
Professional category: Postdoctoral researcher
Start-End date: 01/12/2015 - 31/08/2017 **Duration:** 2 years
Dedication regime: Full time
Performed tasks: Postdoctoral Researcher funded by the Agence Nationale de la Recherche, grant ANR-13-BS09-0003
- 6** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Superior Research Technician (FPI)
Start-End date: 01/12/2013 - 30/11/2015 **Duration:** 2 years
Dedication regime: Full time
- 7** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Predoctoral Contract (FPI)
Start-End date: 01/12/2011 - 30/11/2013 **Duration:** 2 years
Dedication regime: Full time
- 8** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Excellence Research Grant "Beca de Excelencia"
Start-End date: 01/02/2011 - 30/11/2011 **Duration:** 11 months
Dedication regime: Full time
- 9** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Especialización de Primer Ciclo"
Start-End date: 01/06/2010 - 30/12/2010 **Duration:** 7 months
Dedication regime: Full time
- 10** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Colaboración"
Start-End date: 01/02/2010 - 31/05/2010 **Duration:** 4 months
Dedication regime: Full time
- 11** **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Colaboración"
Start-End date: 01/05/2009 - 30/09/2009 **Duration:** 6 months
Dedication regime: Full time



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree
Name of qualification: Máster Universitario en Ingeniería Acústica
Degree awarding entity: Universitat Politècnica de València **Type of entity:** University
Date of qualification: 01/03/2010
- 2** **University degree:** Certificado
Name of qualification: Certificado de Aptitud Pedagógica (CAP)
Degree awarding entity: Instituto de Ciencias de la Educación, Universidad Politécnica de Valencia **Type of entity:** University
Date of qualification: 01/06/2009
- 3** **University degree:** Middle degree
Name of qualification: Ingeniero Técnico de Telecomunicación, especialidad en Sonido e Imagen
Degree awarding entity: Universitat Politècnica de València **Type of entity:** University
Date of qualification: 20/06/2007

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Matemática Aplicada
Degree awarding entity: Universitat Politècnica de València **Type of entity:** University
Date of degree: 29/06/2015
European doctorate: Yes **Date of certificate:** 29/06/2015
Thesis title: Nonlinear Acoustic Waves in Complex Media
Thesis director: Francisco Camarena Femenia
Obtained qualification: Cum Laude (with European mention and Extraordinary award given by the Universitat Politècnica de València)
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 27/06/2017

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1** **Training title:** Formación de profesorado - Tutor de primero de grado
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 26/10/2022 **Duration in hours:** 10 hours
- 2** **Training title:** Creación de contenidos visuales: la imagen como elemento de conexión con el alumno
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 01/10/2021 **Duration in hours:** 4 hours
- 3** **Training title:** Creación de vídeos con preguntas interactivas con Stream y Forms de Microsoft 365
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 27/09/2021 **Duration in hours:** 3 hours
- 4** **Training title:** Educación de la voz
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 16/09/2021 **Duration in hours:** 10 hours
- 5** **Type of training:** Course
Training title: Training School 5: Use and characterisation of new acoustic treatments and tools
City awarding entity: Budapest, Hungary
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Óbuda University
End date: 18/12/2019 **Duration in hours:** 40 hours
- 6** **Training title:** Preparación de propuestas tipo ERC (European Research Council)
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 07/11/2019 **Duration in hours:** 7 hours
- 7** **Type of training:** Course
Training title: Ultrasound Phased-Arrays systems: Verasonics' Customer Training
City awarding entity: Washington, United States of America
Awarding entity: Verasonics Inc **Type of entity:** Business
End date: 12/06/2019 **Duration in hours:** 10 hours
- 8** **Type of training:** Course
Training title: III simposio cátedra IVIO-UPV "Implantología oral: De la planificación a la ejecución"
City awarding entity: Gandia, Spain
Awarding entity: Universitat Politècnica de València **Type of entity:** University
End date: 29/03/2019 **Duration in hours:** 8 hours
- 9** **Type of training:** Course
Training title: Workshop: Working days on design and characterisation of innovative noise reducing materials and structures
City awarding entity: Kuopio, Finland
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University of Eastern Finland
End date: 10/10/2018 **Duration in hours:** 30 hours

**10 Type of training:** Course**Training title:** Training School 3: Experimental techniques for acoustic porous materials and metamaterials**City awarding entity:** Le Mans, France**Awarding entity:** COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Université du Mans**End date:** 06/12/2017**Duration in hours:** 40 hours**11 Type of training:** Practical work**Training title:** Sandpit: New approaches to design of noise reducing materials and structures**City awarding entity:** Novi Sad, Serbia**Awarding entity:** University of Novi Sad - DENORMS COST Action (European Cooperation in Science and Technology) - EU Horizon 2020**End date:** 17/09/2017**Type of entity:** University**Duration in hours:** 40 hours**12 Type of training:** Course**Training title:** Workshop Sandpit: New approaches to design of noise reducing materials and structures**City awarding entity:** Novi Sad, Serbia**Awarding entity:** COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University of Novi Sad**End date:** 13/09/2017**Type of entity:** University**Duration in hours:** 20 hours**13 Type of training:** Course**Training title:** GDR Meta thematic day: Industrial applications of acoustic metamaterials**City awarding entity:** Marseille, France**Awarding entity:** COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Aix-Marseille Université**End date:** 01/09/2017**Type of entity:** University**Duration in hours:** 10 hours**14 Type of training:** Course**Training title:** Metagineering 2017 summer school: Principles and engineering applications of acoustics metamaterials**City awarding entity:** Olerón, France**Awarding entity:** Centre National de la Recherche Scientifique (CNRS)**End date:** 07/07/2017**Duration in hours:** 144 hours**15 Type of training:** Course**Training title:** Workshop: Multifunctional structured materials for audible sound absorption**City awarding entity:** Rome, Italy**Awarding entity:** COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University Roma Tre**End date:** 25/01/2017**Type of entity:** University**Duration in hours:** 40 hours**16 Type of training:** Course**Training title:** Training School 2: Acoustic waves propagation in porous materials**City awarding entity:** Prague, Czech Republic**Type of entity:** University



Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Czech Technical University

End date: 30/09/2016

Duration in hours: 40 hours

17 Type of training: Course

Training title: Training School 1: Modelling of acoustic metamaterials, metasurfaces and sonic crystals

City awarding entity: Prague, Czech Republic

Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020

End date: 28/09/2016

Duration in hours: 40 hours

18 Training title: Advanced instrumentation systems

Awarding entity: Universitat Politècnica de València

End date: 01/07/2012

Type of entity: University

Duration in hours: 45 hours

19 Training title: English B1.2

Awarding entity: Universitat Politècnica de València

End date: 01/05/2011

Type of entity: University

Duration in hours: 50 hours

20 Training title: Finite difference methods

Awarding entity: Universitat Politècnica de València

End date: 04/03/2011

Type of entity: University

Duration in hours: 10 hours

21 Training title: Computational fluids dynamics for engineering

Awarding entity: Universitat Politècnica de València

End date: 03/03/2011

Type of entity: University

Duration in hours: 15 hours

22 Training title: Modelling with COMSOL Multiphysics V.4

Awarding entity: Addlink Software S.L.

End date: 04/11/2010

Duration in hours: 8 hours

23 Training title: Advanced morphological signal/image processing

Awarding entity: Universitat Politècnica de València

End date: 24/04/2010

Type of entity: University

Duration in hours: 15 hours

24 Training title: Design and performance of ultrasonic devices for cutting applications

Awarding entity: Universitat Politècnica de València

End date: 03/06/2009

Type of entity: University

Duration in hours: 5 hours

25 Training title: Line arrays

Awarding entity: Universitat Politècnica de València

End date: 15/05/2008

Type of entity: University

Duration in hours: 5 hours

26 Training title: Audio edition and mixing with Protools

Awarding entity: Universitat Politècnica de València

End date: 09/03/2006

Type of entity: University

Duration in hours: 32 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	B1	B1	B1	B1	B1
French	B2	B2	B2	B2	B1
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Biomedical optics and ultrasound
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Biomédica
Start date: 01/01/2025 **End date:** 30/06/2025
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada
- 2** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2025 **End date:** 30/06/2025
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 3** **Type of teaching:** Official teaching
Name of the course: Biomedical optics and ultrasound
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Biomédica
Start date: 01/01/2024 **End date:** 30/06/2024
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada



- 4** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2024 **End date:** 30/06/2024
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 5** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2023 **End date:** 30/06/2023
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 6** **Type of teaching:** Official teaching
Name of the course: Física II
Type of programme: Engineering **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación
Start date: 01/01/2022 **End date:** 30/06/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada
- 7** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2022 **End date:** 30/06/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 8** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Acústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Acústica
Start date: 15/09/2021 **End date:** 31/01/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 36
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
- 9** **Type of teaching:** Official teaching
Name of the course: Ultrasonidos y aplicaciones
Type of programme: Engineering **Type of teaching:** In person theory



Type of subject: Core

University degree: Grado en ingeniería en sonido e imagen en telecomunicación

Start date: 22/11/2021

End date: 23/11/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Alicante

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Física, ingeniería de sistemas y teoría de la señal

10 Type of teaching: Official teaching

Name of the course: Acústica Arquitectónica

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación

Start date: 01/01/2021

End date: 30/06/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 8

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

11 Type of teaching: Official teaching

Name of the course: Física II

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación

Start date: 01/01/2021

End date: 30/06/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 36

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

12 Name of the course: Sistemas de Imagen para el Diagnóstico Médico

University degree: Máster Universitario en Física Médica

Start date: 01/01/2021

End date: 30/06/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Universitat de València

Type of entity: University

Faculty, institute or centre: Facultad de Física

13 Type of teaching: Official teaching

Name of the course: Fundamentos de Acústica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Core

University degree: Máster Universitario en Ingeniería Acústica

Start date: 15/09/2020

End date: 31/01/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 36

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía



Department: Física Aplicada

14 Type of teaching: Official teaching

Name of the course: Ultrasonidos y aplicaciones

Type of programme: Engineering

Type of teaching: In person theory

Type of subject: Core

University degree: Grado en ingeniería en sonido e imagen en telecomunicación

Start date: 22/11/2020

End date: 23/11/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Alicante

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Física, ingeniería de sistemas y teoría de la señal

15 Type of teaching: Official teaching

Name of the course: Física II

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería en Tecnologías Industriales

Start date: 01/01/2020

End date: 30/06/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 28

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

16 Type of teaching: Official teaching

Name of the course: Física III

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería en Tecnologías Industriales

Start date: 15/09/2018

End date: 31/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

17 Type of teaching: Official teaching

Name of the course: Fundamentos de Acústica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Core

University degree: Máster Universitario en Ingeniería Acústica

Start date: 15/09/2018

End date: 31/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada



18 **Type of teaching:** Official teaching
Name of the course: Acústica
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Optional
University degree: Grado en Ingeniería de Sistemas de Telecomunicación, Sonido e Imagen
Start date: 01/09/2018 **End date:** 31/01/2019
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada

19 **Type of teaching:** Official teaching
Name of the course: Ultrasonidos y aplicaciones
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Core
University degree: Grado en ingeniería en sonido e imagen en telecomunicación
Start date: 22/11/2018 **End date:** 23/11/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad de Alicante **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
Department: Física, ingeniería de sistemas y teoría de la señal

20 **Type of teaching:** Official teaching
Name of the course: Ultrasonidos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Start date: 01/02/2018 **End date:** 30/06/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada

21 **Type of teaching:** Official teaching
Name of the course: Fundamentos de Acústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Acústica
Start date: 15/09/2017 **End date:** 31/01/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 35
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada

22 **Type of teaching:** Official teaching
Name of the course: Psicoacústica
Type of programme: Master's degree **Type of teaching:** In person theory



Type of subject: Optional

University degree: Máster Universitario en Ingeniería Acústica

Frequency of the activity: 1

Start date: 01/02/2017

End date: 30/06/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

23 Type of teaching: Official teaching

Name of the course: Técnicas de simulación en acústica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

University degree: Máster Universitario en Ingeniería Acústica

Frequency of the activity: 1

Start date: 01/02/2017

End date: 30/06/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

24 Type of teaching: Official teaching

Name of the course: Técnicas de simulación en acústica

Type of programme: Master's degree

Type of teaching: Practical work (classroom-problems)

Type of subject: Optional

University degree: Máster Universitario en Ingeniería Acústica

Frequency of the activity: 1

Start date: 01/02/2012

End date: 30/04/2012

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

Subject language: Spanish

25 Type of teaching: Official teaching

Name of the course: Simulación de sólidos mediante FDTD

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

University degree: Máster Universitario en Ingeniería Acústica

Frequency of the activity: 1

Start date: 01/06/2011

End date: 30/06/2011

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 2

Entity: Universitat Politècnica de València

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

Subject language: Spanish



- 26** **Type of teaching:** Official teaching
Name of the course: FDTD en sólidos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 05/05/2011 **End date:** 05/05/2011
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
Subject language: Spanish
- 27** **Type of teaching:** Official teaching
Name of the course: Acústica de salas
Type of programme: Master's degree **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/02/2011 **End date:** 30/04/2011
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
Subject language: Spanish
- 28** **Type of teaching:** Official teaching
Name of the course: Ultrasonidos y aplicaciones industriales
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Optional
University degree: Grado en Ingeniería de Sistemas de Telecomunicación, Sonido e Imagen
Start date: 01/02/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 35
Entity: Universitat Politècnica de València **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Exotic acoustic beams for contactless particle manipulation
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Nicolás Puente-Díaz
Date of reading: 25/09/2029
- 2** **Project title:** Acoustic Vortices For Efficient Kidney Stone Fragmentation
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; Alejandro Cebrecos



Entity: Universitat Politècnica de València

Type of entity: University

Student: Sergio Maldonado Ortega

Obtained qualification: in progress (started on 2024)

Date of reading: 31/12/2027

3 Project title: Advanced Acoustic Holograms For Biomedical Ultrasound Applications

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez; Francisco Camarena

Entity: Universitat Politècnica de València

Type of entity: University

Student: Víctor Vegas Luque

Obtained qualification: in progress (started on 2024)

Date of reading: 31/12/2027

4 Project title: Spatiotemporal Coddling For Biomedical Ultrasound Imaging

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez

Entity: Universitat Politècnica de València

Type of entity: University

Student: Maria Elisa Pérez Sirvent

Obtained qualification: in progress (started on 2024)

Date of reading: 31/12/2027

5 Project title: Marco Metodológico Para La Monitorización Online De La Dosis-Respuesta En La Apertura De La Barrera Hematoencefálica Mediante Ultrasonido Focal

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez; José A. Pineda Pardo

Entity: Universitat Politècnica de València

Type of entity: University

Student: Castillo Ortiz Marta Castillo Ortiz

Obtained qualification: in progress (started on 2023)

Date of reading: 01/01/2027

6 Project title: Low-Cost Magnetic Resonance-Guided Holographic Ultrasound For Brain Therapy

Type of project: Doctoral thesis

Co-director of thesis: Alicia Carrión; Noé Jiménez; Francisco Camarena

Entity: Universitat Politècnica de València

Type of entity: University

Student: Alba Eroles Simó

Obtained qualification: in progress (started on 2022)

Date of reading: 31/12/2026

7 Project title: Air-Coupled Biomedical Ultrasound Imaging And Tissue Manipulation Using Metamaterials

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez; Francisco Camarena

Entity: Universitat Politècnica de València

Type of entity: University

Student: José Manuel Requena Plens

Obtained qualification: in progress (started on 2021)

Date of reading: 27/06/2025

8 Project title: Ultrasound Imaging and Therapy using Acoustic Vortices

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez; Francisco Camarena

Entity: Universitat Politècnica de València

Type of entity: University

Student: Enrique Manuel González Mateo



Obtained qualification: in progress (started on 2021)

Date of reading: 30/05/2025

9 Project title: Advanced Ultrasound Imaging To Monitor Therapeutic Ultrasound In Complex Media

Type of project: Doctoral thesis

Co-director of thesis: Francisco Camarena; Noé Jiménez

Entity: Universitat Politècnica de València

Type of entity: University

Student: Nathalie Lamothe

Obtained qualification: in progress (started on 2021)

Date of reading: 01/01/2025

10 Project title: Transcranial Ultrasound Holograms for the Treatment of Neurological Diseases

Type of project: Doctoral thesis

Co-director of thesis: Noé Jiménez; José M. Benlloch

Entity: Universitat Politècnica de València

Type of entity: University

Student: Diana Andrés Bautista

Obtained qualification: 10, Cum Laude

Date of reading: 30/05/2024

European doctorate: Yes

Date of recognition: 30/05/2024

Quality recognition: Yes

Date of award: 30/05/2024

11 Project title: Efectos y mejoras en el rendimiento escolar generado por el acondicionamiento acústico en un aula de clase de escuela primaria en Vilassar de Mar (Cataluña)

Type of project: Minor thesis

Entity: Universitat Politècnica de València

Type of entity: University

Student: Manuel Andrés Salcedo Sandoval

Obtained qualification: 10, Cum Laude

Date of reading: 26/07/2023

12 Project title: Ondas transversales focalizadas para cirugía sin incisión

Type of project: Minor thesis

Entity: Universitat de València

Type of entity: University

Student: Carla Selene Brandemann

Obtained qualification: 7.8

Date of reading: 18/07/2022

13 Project title: Metamaterial absorbente de alta porosidad para problemas en transmisión

Type of project: Minor thesis

Entity: Universidad Austral de Chile / Universitat Politècnica de València

Type of entity: University

Student: Enrique González Mateo

Obtained qualification: 10, Cum Laude

Date of reading: 05/10/2021

14 Project title: Transcranial Ultrasound Holograms For The Blood-Brain Barrier Opening

Type of project: Doctoral thesis

Co-director of thesis: Francisco Camarena; Noé Jiménez

Entity: Universitat Politècnica de València

Type of entity: University

Student: Sergio Jiménez Gambín

Obtained qualification: Cum Laude

Date of reading: 23/07/2021



European doctorate: Yes

Quality recognition: Yes

- 15** **Project title:** Estudio Numérico y Experimental para Evaluar el Rendimiento de Algoritmos de Reconstrucción de Imagen Empleados en Tomografía Fotoacústica
Type of project: Minor thesis
Co-director of thesis: Alejandro Cebrecos; Francisco Camarena; Noé Jimenez
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Irene Pi Martín
Obtained qualification: 10, Mat. Honor.
Date of reading: 21/07/2021
- 16** **Project title:** Transductores de Ultrasonidos en Aire Ultradirectivos Basados en Metamateriales
Type of project: Minor thesis
Co-director of thesis: Noé Jimenez; José Manuel Requena-Plens; Francisco Camarena
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Alberto Férrez García
Obtained qualification: 7,5
Date of reading: 21/07/2021
- 17** **Project title:** Estudio numérico y experimental para evaluar el rendimiento de algoritmos de reconstrucción de imagen empleados en tomografía fotoacústica
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Irene Pi Martín
Obtained qualification: 10, Mat. Honor
Date of reading: 26/06/2021
- 18** **Project title:** Hologramas acústicos para aplicaciones de terapia ultrasónica
Type of project: Minor thesis
Entity: Universitat de València **Type of entity:** University
Student: Diana Andrés Bautista
Obtained qualification: 10, Mat. Honor
Date of reading: 06/07/2020
- 19** **Project title:** Difusores acústicos basados en resonadores de membrana y placa
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: José Manuel Requena Plens
Obtained qualification: Matricula de Honor, mención especial del jurado
Date of reading: 26/10/2019
- 20** **Project title:** Imagen elastográfica empleando vórtices ultrasónicos
Type of project: Minor thesis
Entity: Universitat de València **Type of entity:** University
Student: Andrei Cristian Marin
Obtained qualification: 10, Mat. Honor
Date of reading: 05/07/2019



- 21** **Project title:** Diseño y desarrollo de sistemas ultrasónicos para la detección y eliminación de obstrucciones en conductos de bombas de gasóleo
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: José Antonio López Navarro
Obtained qualification: Sobresaliente
Date of reading: 27/03/2019
- 22** **Project title:** Caracterización de un medio viscoelástico mediante un sistema mixto magnético ultrasónico
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Juan Antonio Sanchez Garcia
Obtained qualification: Notable
Date of reading: 28/02/2019
- 23** **Project title:** Técnicas Ultrasónicas No Destructivas para la Monitorización del Proceso de Regeneración Ósea Guiada
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Yolanda Pamies Rodríguez
Obtained qualification: Matric. Honor
Date of reading: 27/09/2018
Quality recognition: Yes
- 24** **Project title:** Desarrollo de un sistema mixto magnético-ultrasónico para la caracterización de medios viscoelásticos
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Miguel Company Arnalte
Obtained qualification: Sobresaliente
Date of reading: 28/03/2018
- 25** **Project title:** Sonic vortex spiral-diffusers
Type of project: Minor thesis
Entity: Université du Maine **Type of entity:** University
City of entity: Le Mans, France
Student: Nicolas Guarderas
Obtained qualification: 9.3
Date of reading: 03/06/2017
- 26** **Project title:** Estudios sobre la propagación transcraneal de ultrasonidos
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Sergio Jiménez Gambín
Obtained qualification: Sobresaliente
Date of reading: 19/09/2016
- 27** **Project title:** Modélisation des ondes de surface à la surface d'une pomme
Type of project: Minor thesis
Entity: Université du Maine **Type of entity:** University
City of entity: Le Mans, France



Student: Xiaoyang Yu
Obtained qualification: 9
Date of reading: 12/07/2016

28 Project title: Caracterización de un dispositivo elastográfico

Type of project: Minor thesis

Entity: Universitat Politècnica de València

Type of entity: University

Student: Maria Rocio Peña Maestre

Obtained qualification: Sobresaliente

Date of reading: 26/09/2013

29 Project title: Influencia de las diferentes disposiciones orquestales en la percepción acústica del director de orquesta

Type of project: Minor thesis

Entity: Universitat Politècnica de València

Type of entity: University

Student: Vicente Mendoza Sánchez

Obtained qualification: Notable

Date of reading: 25/09/2013

30 Project title: Estudio parametrico de la propagación transcraneal de un haz ultrasónico para la apertura de la barrera hematoencefálica

Type of project: Minor thesis

Entity: Universitat Politècnica de València

Type of entity: University

Student: Pablo Iglesias Cambor

Obtained qualification: Matric. Honor

Date of reading: 23/07/2013

31 Project title: Diseño y programación de una herramienta de predicción del campo acústico generado por array de subgraves

Type of project: End of course project

Entity: Universitat Politècnica de València

Type of entity: University

Student: Pablo Cambor Iglesias

Obtained qualification: Matric. Honor

Date of reading: 21/09/2012

32 Project title: Propagación de ondas trasversales generadas con fuerza de radiación

Type of project: End of course project

Entity: Universitat Politècnica de València

Type of entity: University

Student: Luis José Salmerón Contreras

Obtained qualification: Aprobado

Date of reading: 23/12/2011

33 Project title: Analysis of business model and value proposition for a novel preclinical ultrasonic medical device

Type of project: End of course project

Entity: Hochschule München University of Applied Sciences

Type of entity: University

Student: Christopher Kain

Obtained qualification: 9



Courses and seminars given

- 1** **Type of event:** Course
Name of the event: European Summer School on Physical Acoustics
City organizing entity: Cargèse, France
Organising entity: Universitat Politècnica de València **Type of entity:** University
Aims of the course: This Summer School 16 - 20 September 2024, contains a rich technical program starting from the basics of ultrasound through different specialty fields including radiation forces, streaming, holograms, and bubble dynamics.
Hours of teaching: 72 **Teaching language:** English
Teaching date: 19/09/2024
Type of participation: Organizational - Scientific and organizing committee
- 2** **Type of event:** Course
Name of the event: European Summer School on Physical Acoustics
City organizing entity: Cargèse, France
Organising entity: Universitat Politècnica de València **Type of entity:** University
Aims of the course: This Summer School 16 - 20 September 2024, contains a rich technical program starting from the basics of ultrasound through different specialty fields including radiation forces, streaming, holograms, and bubble dynamics.
Hours of teaching: 5 **Teaching language:** English
Teaching date: 19/09/2024
Type of participation: Participatory - Plenary session
- 3** **Type of event:** Course
Name of the event: Erasmus Mundus Master Waves Summer School. New Trends in Ultrasound Applications
City organizing entity: Gandia, Spain
Organising entity: Universitat Politècnica de València **Type of entity:** University
Aims of the course: This Summer School 17-20 July 2024 aimed to provide an up-to-date view of new trends in ultrasound applications, both in the medical and industrial fields.
Hours of teaching: 5 **Teaching language:** English
Teaching date: 18/07/2024
Type of participation: Participatory - Plenary session
- 4** **Type of event:** Course
Name of the event: Training School on Acoustic & Elastic (Meta)-Materials
City organizing entity: Valencia, Spain
Organising entity: Universitat Politècnica de València **Type of entity:** University
Aims of the course: This Winter School 13-17 November 2023 aimed to provide a common theoretical basis for researchers and engineers working on acoustic and elastic structured materials. The training comprised theoretical and practical courses and followed a scheme of increasing complexity.
Hours of teaching: 72 **Teaching language:** English
Teaching date: 13/10/2023
Type of participation: Organizational - Scientific and organizing committee
- 5** **Type of event:** Course
Name of the event: Summer School on Acoustic Metamaterials
City organizing entity: Torino, Italy
Organising entity: Politecnico di Torino **Type of entity:** University



Aims of the course: This Summer School aimed at the academic, industrial and Early Career Investigators. The training offered 08 to 10 September 2023 in theoretical and experimental aspects of acoustic metamaterial design for sound absorbing and sound controlling structures.

Hours of teaching: 20

Teaching language: English

Teaching date: 08/09/2023

Type of participation: Participatory - Plenary session

6 Type of event: Course

Name of the event: Autumn School Series in Acoustics: ASSA 2022 Building and Room Acoustics

City organizing entity: Eindhoven, Holland

Organising entity: Eindhoven University of Technology **Type of entity:** University

Aims of the course: Autumn School Series in Acoustics (ASSA) is a yearly-returning one-week school on a post-graduate Ph.D. level held at Eindhoven University of Technology (TU/e). This edition was held 07-11 November 2022, lectures on Acoustic Materials.

Hours of teaching: 5

Teaching language: English

Teaching date: 11/11/2022

Type of participation: Participatory - Plenary session

7 Type of event: Post Graduate Course

Name of the event: Use and characterisation of new acoustic treatments and tools

City organizing entity: Budapest, Hungary

Organising entity: Óbuda University

Type of entity: University

Aims of the course: This Training school is aimed at the industrial partners and Early Career Investigators. The training will be offered in both theoretical and experimental aspects of developing new sound absorbing and sound controlling structures.

Hours of teaching: 8

Teaching date: 16/12/2019

Type of participation: Participatory - Plenary session

8 Type of event: Post Graduate Course

Name of the event: Fundamentos de los Ultrasonidos

Organising entity: Universitat Politècnica de València **Type of entity:** University

Aims of the course: El curso de "Fundamentos y Aplicaciones de los Ultrasonidos" abordará la descripción de los fenómenos físicos involucrados en la generación, propagación y detección de ondas ultrasónicas, así como el diseño y especificación de equipos ultrasónicos utilizados en aplicaciones de análisis no destructivo, imagen y potencia, tanto en el sector médico como en el industrial.

Hours of teaching: 14

Teaching date: 19/11/2018

9 Type of event: Post Graduate Course

Name of the event: Fundamentos y Aplicaciones de los Ultrasonidos

Organising entity: Universitat Politècnica de València **Type of entity:** University

Aims of the course: El curso de "Fundamentos y Aplicaciones de los Ultrasonidos" abordará la descripción de los fenómenos físicos involucrados en la generación, propagación y detección de ondas ultrasónicas, así como el diseño y especificación de equipos ultrasónicos utilizados en aplicaciones de análisis no destructivo, imagen y potencia, tanto en el sector médico como en el industrial.

Hours of teaching: 10

Teaching date: 01/05/2018

10 Type of event: Post Graduate Course

Name of the event: Modelling of high performance acoustic structures Porous media, metamaterials and sonic crystals



City organizing entity: Roma, Italy

Organising entity: Roma Tre University

Type of entity: University

Aims of the course: This Workshop was dedicated to theoretical and numerical modelling of acoustic treatments made of porous materials and periodic structures. The Workshop also had a session on Multiphysics applications including electromagnetics aimed at broadening the scope of theoretical and numerical results available in different areas of Physics and Mathematics.

Hours of teaching: 6

Teaching date: 24/01/2017

Type of participation: Participatory - Plenary session

Corresponding author: Yes

Materials and other teaching or educational publications.

- 1** Diana Andrés; Noé Jiménez; Francisco Camarena. Modelling in Science Education and Learning, 10 - 1, pp. 1 - 18. 20/07/2022. ISSN 1988-3145
Name of the materials: Modelling the acoustic field generated by vibrating surfaces
Date of drafting: 19/05/2022
Format: Article(s)
Corresponding author: Yes
Position of signature: 2
- 2** Víctor Sánchez-Morcillo; Noé Jiménez; Nuria González; Serge Dos Santos; Ayache Bouakaz; Jennifer Chaline. Modelling in Science Education and Learning, 6 - 3, pp. 75 - 87. 01/06/2013. ISSN 1988-3145
Name of the materials: Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues
Date of drafting: 01/06/2013
Format: Article(s)
DOI: 10.4995/msel.2013.1985
- 3** Nuria González; Noé Jiménez; Marcelino Ferri; Francisco Camarena; Rubén Picó. Modelling in Science Education and Learning, 6 - 12, pp. 131 - 143. 01/06/2013. ISSN 1988-3145
Name of the materials: Simulación numérica de una cerámica piezoeléctrica
Date of drafting: 01/06/2013
Format: Article(s)
DOI: 10.4995/msel.2013.1990
- 4** Noé Jiménez; Francisco Camarena. Modelling in Science Education and Learning, 12 - 1, pp. 113 - 125. 18/12/2018. ISSN 1988-3145
Name of the materials: Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia
Format: Article(s)
Corresponding author: Yes
Position of signature: 1



Participation in conferences with talks focused on teacher training

- 1** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia.
- 2** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelización de la dinámica de una esfera en el seno de un medio viscoelástico.
- 3** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelling ultrasonic signal backscattering in bone-cement.
- 4** **Name of the event:** III Jornadas de Modelización Matemática
Type of event: Conference
City of event: Gandía, Spain
Date of presentation: 07/06/2012
Organising entity: Universitat Politècnica de València **Type of entity:** University
Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues.
- 5** **Name of the event:** III Jornadas de Modelización Matemática
Type of event: Conference
City of event: Gandía, Spain
Date of presentation: 07/06/2012
Organising entity: Universitat Politècnica de València **Type of entity:** University
Simulación numérica de una cerámica piezoeléctrica.



Scientific and technological experience

Research and development groups/teams

Name of the group: Denorms COST Action

Aims of the group: Speed-dating with industrial partners, metamaterials technology transfer

Name of principal investigator: Jean-Philippe Groby

Number of members in the group: 60

Standardised code: CA15125

Type of collaboration: Co-authorship of protected modes of technology

City of group: Paris, France

Affiliation entity: European Cooperation in Science and Technology - Programme Horizon 2020

Narrative explanation: Design of subwavelength materials for aerospace industry (Embraer R&D)

Others: 80 international partners, 25 participating countries

Start date: 15/09/2016

Duration: 2 years

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 Name of the project: Advanced acoustic holograms for biomedical ultrasound applications

Type of project: Research and development, including transfer

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 2

Funding entity or bodies:

Universitat Politècnica de València

Type of entity: University

Type of participation: Principal investigator

Name of the programme: Contratos predoctorales para la formación de doctores

Code according to the funding entity: PAID-01-24

Start-End date: 01/06/2025 - 31/05/2029

Total amount: 84.000 €

2 Name of the project: Técnico en sistemas multicanal de imagen y terapia por ultrasonidos

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 2

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: State agency

Type of participation: Principal investigator



Name of the programme: Ayudas para contratos de Personal Técnico de I+D+i (PTA) 2024
Code according to the funding entity: PTA2024-024684-I
Start-End date: 01/11/2025 - 30/11/2028
Total amount: 56.100 €

3 **Name of the project:** FPI-Lentes Holograficas para el Tratamiento Ultrasonico de Trastornos Cerebrales
Entity where project took place: Universitat Politècnica de València
Type of entity: University
Name principal investigator (PI, Co-PI....): Noé Jiménez; Francisco Camarena
Nº of researchers: 3
Funding entity or bodies: Agencia Estatal de Investigacion
Type of participation: Principal investigator
Name of the programme: Proyectos de generación de conocimiento y formación de investigadores predoctorales
Code according to the funding entity: PREP2022-000156
Start-End date: 01/12/2023 - 31/01/2028
Total amount: 111.758 €

4 **Name of the project:** Eficacia y seguridad de la litotricia basada en haces de vórtice
Type of project: Research and development, including transfer
Geographical area: Regional
Degree of contribution: Scientific coordinator
Entity where project took place: Universitat Politècnica de València
Type of entity: University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 4
Nª people/year: 4
Funding entity or bodies: Universitat Politècnica de València
Type of entity: University
Type of participation: Principal investigator
Name of the programme: Proyectos de Innovación INBIO
Code according to the funding entity: PI2025-15
Start-End date: 01/09/2025 - 31/08/2027
Participating entity/entities: FUNDACION PARA LA INVESTIGACION HOSPITAL UNIVERSITARIO LA FE
Total amount: 17.000 €

5 **Name of the project:** Desarrollo de Un Protocolo Estandar para la Realizacion de Estudios In Vitro e In Vivo Mediante Sonoforesis
Entity where project took place: Universitat Politècnica de València
Type of entity: University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Funding entity or bodies: Agencia Estatal de Investigación
Type of participation: Team member
Name of the programme: Proyectos de Colaboración Publico Privada
Code according to the funding entity: CPP2022-009822
Start-End date: 01/12/2023 - 01/12/2026
Total amount: 200.000 €



- 6** **Name of the project:** Lentes Holograficas para el Tratamiento Ultrasonico de Trastornos Cerebrales
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez; Francisco Camarena
Funding entity or bodies: Agencia Estatal de Investigacion
Type of participation: Principal investigator
Name of the programme: Proyectos de Generación de Conocimiento
Code according to the funding entity: PID2022-142719OB-C21
Start-End date: 01/09/2023 - 01/09/2026
Total amount: 250.000 €
- 7** **Name of the project:** Hologramas caleidoscopicos para imagen y terapia en el cerebro empleando ultrasonidos de bajo coste
Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Noé Jiménez
Funding entity or bodies: Agencia Estatal de Investigación
Type of participation: Principal investigator
Name of the programme: Consolidación Investigadora
Code according to the funding entity: CNS2023-145707
Start-End date: 01/04/2024 - 30/06/2026
Total amount: 200.000 €
- 8** **Name of the project:** Desarrollo de Soluciones Innovadoras en Materia de Desarrollo de Tecnologías No Invasivas en Neuromodulación
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 12
Type of participation: Team member
Name of the programme: Compra pública precomercial
Code according to the funding entity: CPP 09/2023AB (DCCPI/OCPI)
Start-End date: 06/02/2024 - 31/12/2025
Total amount: 9.500.000 €
- 9** **Name of the project:** Metasuperficies para el Control de Ultrasonidos: Formacion de Haces, Focalizacion, Absorcion y Difusion
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez; Vicent Romero-García
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Body, others
Type of participation: Principal investigator
Name of the programme: Subvenciones para grupos de investigación consolidados
Code according to the funding entity: CIAICO/2022/052
Start-End date: 01/01/2023 - 31/12/2024



Total amount: 60.000 €

10 Name of the project: Ayudas para la incorporación de personal Científico Titular

Type of project: Research and development, including transfer

Degree of contribution: Scientific coordinator

Entity where project took place: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Funding entity or bodies:

Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Type of participation: Principal investigator

Name of the programme: Ayudas para la incorporación de personal Científico Titular

Code according to the funding entity: 2024ICT039

Start-End date: 01/12/2023 - 01/12/2024

Total amount: 5.000 €

11 Name of the project: Elastographic and molecular multimodal imaging for prostate cancer

Geographical area: Regional

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 2

Funding entity or bodies:

Universitat Politècnica de València

Type of entity: University

Type of participation: Team member

Name of the programme: Contratos de Acceso al Sistema Español de Ciencia

Code according to the funding entity: PAID-10-19

Start-End date: 01/12/2019 - 01/12/2024

Total amount: 26.903,74 €

12 Name of the project: Nueva generación de metasuperficies inteligentes basadas en fabricación aditiva para aplicaciones estratégicas en telecomunicaciones (METASMART)

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 3

Type of participation: Principal investigator

Start-End date: 06/05/2022 - 30/09/2024

Total amount: 1.000.000 €

Sub-project amount: 94.900 €

13 Name of the project: Dispositivos biomédicos de diagnóstico y terapia con tecnologías físicas avanzadas

Entity where project took place: Universitat Politècnica de València

Type of entity: University

City of entity: Valencia, Spain

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 5

Funding entity or bodies:

Agencia Valenciana de la Innovación

Name of the programme: Potenciación de unidades científicas de desarrollo de tecnologías y difusión del conocimiento hacia la empresa

Code according to the funding entity: INNVA2/2022/11

**Start-End date:** 01/01/2022 - 30/09/2024**Duration:** 2 years**Total amount:** 500.000 €**14 Name of the project:** Prototipo de litotricia extracorpórea por vórtices acústicos**Entity where project took place:** Universitat Politècnica de València**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Noé Jiménez**Nº of researchers:** 4**Funding entity or bodies:**

Agencia Valenciana de la Innovación

Type of entity: State agency**Type of participation:** Principal investigator**Name of the programme:** Valorización y transferencia de resultados de investigación a las empresas L1**Code according to the funding entity:** INNVA1/2022/37**Start-End date:** 01/01/2022 - 31/12/2023**Duration:** 2 years**Participating entity/entities:** Instituto de Biomecánica de Valencia (IBV); Instituto de Investigación Sanitaria Hospital La-Fe de Valencia**Total amount:** 248.000 €**15 Name of the project:** Holosonic**Entity where project took place:** Universitat Politècnica de València**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Noé Jiménez**Nº of researchers:** 2**Funding entity or bodies:**

Universitat Politècnica de València

Type of entity: University**Type of participation:** Principal investigator**Name of the programme:** Spin UPV**Code according to the funding entity:** SPINUPV/2022/04**Start-End date:** 12/09/2022 - 12/09/2023**Duration:** 1 year**Total amount:** 48.000 €**16 Name of the project:** Nuevas tecnicas para elastografia molecular multimodal**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** National**Entity where project took place:** Universitat Politècnica de València**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Noé Jiménez; Francisco Camarena**Nº of researchers:** 4**Funding entity or bodies:**

Agencia Estatal de Investigación

Type of entity: State agency**Type of participation:** Principal investigator**Name of the programme:** Programa estatal de generación de conocimiento y fortalecimiento científico y tecnológico del sistema de I+D+i y de I+D+i orientada a los retos de la sociedad**Code according to the funding entity:** PID2019-111436RB-C22**Start-End date:** 01/06/2020 - 01/06/2023**Total amount:** 89.903 €



- 17** **Name of the project:** Reconfigurable holographic metasurfaces for ultrasound therapy in neurology (CIAPE/2022/15)
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 1
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Regional
Type of participation: Principal investigator
Start-End date: 01/01/2022 - 31/12/2022
Total amount: 6.000 €
- 18** **Name of the project:** Dispositivo para el tacto de la próstata como método objetivo de cribado del cáncer prostático
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): César David Vera-Donoso
Nº of researchers: 7
Name of the programme: Valorización y transferencia de resultados de investigación a las empresas
Code according to the funding entity: INNVA1/2021/62
Start-End date: 01/01/2021 - 31/12/2022 **Duration:** 2 years
Participating entity/entities: Fundación IIS La Fe; Instituto de Biomecánica de Valencia (IBV)
Total amount: 156.000 €
- 19** **Name of the project:** Iniciativa Estratégica De Diagnóstico - Diagnóstico por imagen
Geographical area: National
Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): M.-Pilar Marco; Cesar Fernandez
Nº of researchers: 21
Type of participation: Co-ordinator
Name of the programme: PTI - Salud Global
Code according to the funding entity: WP7-MI
Start-End date: 01/01/2021 - 31/12/2022
Total amount: 2.435.926 €
- 20** **Name of the project:** Desarrollo de un sistema ultrasónico de guía para procesos de cribado de cáncer prostático con un dispositivo de indentación
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 3
Funding entity or bodies: Fundación para la investigación del hospital la FE valencia **Type of entity:** Foundation
Code according to the funding entity: 20211075
Start-End date: 13/12/2021 - 12/12/2022
Total amount: 45.682 €



- 21** **Name of the project:** Tecnología Ultrasónica para Aplicaciones Biomédicas
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Nº of researchers: 1
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Regional
Type of participation: Principal investigator
Name of the programme: Contratos Garantía Juvenil
Code according to the funding entity: EDGJID/2021/189
Start-End date: 16/11/2021 - 16/11/2022
Total amount: 64.000 €
- 22** **Name of the project:** Litotricia Extracorpórea por Vórtices Ultrasónicos
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 3
Funding entity or bodies: Universitat Politècnica de València **Type of entity:** University
Type of participation: Principal investigator
Name of the programme: INBIO Acciones Preparatorias
Code according to the funding entity: AP2021-08
Start-End date: 01/10/2021 - 01/10/2022
Participating entity/entities: Hospital Universitario La Fe; Instituto de Investigación Sanitaria La Fe
Total amount: 5.000 €
- 23** **Name of the project:** Desarrollo de un sistema magnético-ultrasónico de imagen médica (MUSMI)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 6
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Comunidad Autónoma
Type of participation: Team member
Name of the programme: Subvenciones para grupos de investigación consolidables
Code according to the funding entity: AICO/2020/268
Start-End date: 01/01/2020 - 01/01/2022
Total amount: 40.000 €
- 24** **Name of the project:** Tecnologías físicas de monitorización y tratamiento
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 5
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Public Research Body
Type of participation: Team member



Name of the programme: UCIE
Code according to the funding entity: 20210088
Start-End date: 01/01/2021 - 31/12/2021
Total amount: 250.000 €

- 25** **Name of the project:** Dispositivo de imagen elastográfica cuantitativa empleando vórtices acústicos
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jimenéz
Nº of researchers: 2
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Comunidad Autónoma
Type of participation: Principal investigator
Name of the programme: Programa de Valorización y Transferencia de Resultados de Investigación a las Empresas
Code according to the funding entity: INNVA1/2020/92
Start-End date: 01/01/2020 - 31/12/2021
Total amount: 149.861,6 €

- 26** **Name of the project:** Diseño y análisis de viabilidad de una nueva sonda transfontanelar para la detección temprana de accidentes cerebrovasculares en neonatos prematuros
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alicia Esparza Peidro
Type of participation: Team member
Name of the programme: INBIO Acciones Preparatorias
Code according to the funding entity: AP2020-19
Start-End date: 01/11/2020 - 01/11/2021
Total amount: 3.800 €

- 27** **Name of the project:** Dispositivo médico no invasivo para tratamiento de enfermedades neurológicas
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 3
Funding entity or bodies: Agència Valenciana de la Innovació **Type of entity:** Comunidad Autónoma
City funding entity: Valencia, Spain
Name of the programme: Programa de Valorización y Transferencia de Resultados de Investigación a las Empresas
Code according to the funding entity: INNVAL10/19/016
Start-End date: 01/01/2019 - 01/01/2021
Total amount: 144.740 €

- 28** **Name of the project:** Imagen, Terapia y Caracterización Ultrasónica
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 9
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Comunidad Autónoma
Name of the programme: Unidad Científica de Innovación Empresarial
Start-End date: 01/01/2020 - 31/12/2020
Total amount: 90.000 €
- 29** **Name of the project:** Launch sound level reduction
Geographical area: European Union
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Víctor Sánchez Morcillo; Luis Miguel García-Raffi; Rubén Picó; Sergio Hoyas; Mario Lázaro; Noé Jiménez; Alejandro Cebrecos; Vicente Romero-García; Jean-Phillippe Groby; V. Tournat; V. Pagneux; Francisco Simón Hidalgo; Pedro Cobo Parra; Marcos Chimeno Manguán; Elena Roibás Millán; Pablo Barriuso Feijoo; Víctor Andrés; Juan Fayos
Nº of researchers: 18
Funding entity or bodies: EUROPEAN SPACE AGENCY (ESA) **Type of entity:** Public Research Body
City funding entity: Noordwijk, Holland
Code according to the funding entity: ESA AO/1-9479/18/NL/LvH
Start-End date: 15/03/2019 - 15/09/2020 **Duration:** 1 year - 6 months
Participating entity/entities: CNRS/Laboratoire d'Acoustique de la Université du Mans; COMET Ingeniería; Consejo Superior de Investigaciones Científicas; Universidad Politécnica de Madrid; Universitat Politècnica de Valencia
Total amount: 350.000 €
- 30** **Name of the project:** Haces ultrasónicos para aplicaciones alimentarias y biomédicas
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 11
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Comunidad Autónoma
Name of the programme: Unidad Científica de Innovación Empresarial
Code according to the funding entity: 20190144
Start-End date: 16/09/2019 - 01/01/2020
Total amount: 248.313,34 €



- 31 Name of the project:** Equipos para técnicas mixtas electromagnéticas-ultrasónicas para imagen médica
Geographical area: Regional
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia
Nº of researchers: 9
Funding entity or bodies:
 Generalitat Valenciana **Type of entity:** Regional, Aut.
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Equipamiento e infraestructuras
Code according to the funding entity: IDIFEDER/2018/022
Start-End date: 01/01/2018 - 01/01/2020
Total amount: 398.185 €
- 32 Name of the project:** Monitorización del proceso de regeneración ósea guiada en implantes dentales
Geographical area: Regional
Entity where project took place: Universitat Politècnica de València **Type of entity:** University
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Rubén Picó Vila
Nº of researchers: 4
Funding entity or bodies:
 Fundación para el Fomento de la Investigación Sanitaria y Biomédica de la Comunitat Valenciana - FISABIO **Type of entity:** Foundation
Name of the programme: FISABIO
Code according to the funding entity: FISABIO2018-20180939-OSEODENT
Start-End date: 01/01/2019 - 31/12/2019 **Duration:** 1 year
Total amount: 1.400 €
- 33 Name of the project:** Rôle de la mécanoperception dans la réponse immunitaire précoce des plantes
Geographical area: Francia
Entity where project took place: Laboratoire des Interactions Plantes Microorganismes INRA-CNRS (UMR 0441/2594)
City of entity: Toulouse, France
Name principal investigator (PI, Co-PI....): Adelin Barbacci
Nº of researchers: 7
Funding entity or bodies:
 Institut National de la Recherche Agronomique **Type of entity:** State agency
City funding entity: Toulouse, France
Code according to the funding entity: AAP SPE 2018
Start-End date: 01/01/2018 - 31/12/2019
Total amount: 45.000 €
- 34 Name of the project:** Metamaterials for novel biomedical ultrasound imaging and therapy applications
Geographical area: Regional
Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 4

**Funding entity or bodies:**

Generalitat Valenciana

Type of entity: Regional**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Proyectos de grupos Emergentes**Code according to the funding entity:** GV/2018/011**Start-End date:** 01/01/2018 - 31/12/2018**Total amount:** 8.000 €**35 Name of the project:** Acoustic waves in crystals, structured media and metamaterials**Geographical area:** National**Entity where project took place:** Universitat**Type of entity:** University

Politécnica de València

City of entity: Valencia, Spain**Name principal investigator (PI, Co-PI....):** Víctor José Sánchez Morcillo**Nº of researchers:** 13**Funding entity or bodies:**

Ministerio de Economía y Competitividad

Type of entity: State agency**City funding entity:** Spain**Name of the programme:** Programa estatal de fomento de la investigación científica y técnica de excelencia - Subprograma estatal de generación de conocimiento**Code according to the funding entity:** FIS2015- 65998-C2-2-P**Start-End date:** 01/01/2016 - 31/12/2018**Duration:** 4 years**Participating entity/entities:** CNRS; Georgia Institute of Technology; Universidad Abdelmaleek Essaadi Tetouan; Universitat Politècnica de València; Universidad de Sevilla; Universitat Politècnica de Catalunya; University of Colorado Boulder; Université du Maine**Total amount:** 157.290 €**36 Name of the project:** Design of metamaterials for the absorption of audible sound**Geographical area:** National**Entity where project took place:** Centre National de la Recherche Scientifique (CNRS)**Type of entity:** Public Research Body**City of entity:** Le Mans, Pays de la Loire, France**Name principal investigator (PI, Co-PI....):** Jean-Philippe Groby**Nº of researchers:** 17**Funding entity or bodies:**

Agence Nationale de la Recherche

Type of entity: State agency**City funding entity:** Paris, Île de France, France**Name of the programme:** Projects ANR**Code according to the funding entity:** ANR-13-BS09-0003**Start-End date:** 01/09/2013 - 31/08/2017**Duration:** 4 years**Participating entity/entities:** LAUM Laboratoire d'Acoustique de l'Université du Maine, UMR6613 CNRS/Univ. du Maine; LGCB Laboratoire Génie Civil et Bâtiment; LISMMMA Laboratoire d'Ingénierie des Systèmes Mécaniques et des Matériaux, EA2336 CNRS/Supméca**Total amount:** 419.662 €**37 Name of the project:** Sonic crystals for noise reduction at the launch pad**Geographical area:** European Union**Entity where project took place:** Universitat**Type of entity:** University

Politécnica de València

Name principal investigator (PI, Co-PI....): Luis Miguel García Raffi



Nº of researchers: 7

Funding entity or bodies:

European Space Agency

Type of entity: Public Research Body

Name of the programme: ESA Invitation to Tender

Code according to the funding entity: ESA-ITT-1-7094

Start-End date: 02/06/2014 - 02/03/2015

Duration: 9 months

Participating entity/entities: Universitat Politècnica de València; Universitat Politècnica de Catalunya; University of Birmingham

Total amount: 50.000 €

38 Name of the project: Control de la difracción del sonido en medios modulados: focalización, filtrado espacial y otros efectos de conformación de haces tras la transmisión y reflexión

Geographical area: National

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Víctor Espinosa Roselló

Nº of researchers: 9

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Plan Nacional de Física

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: Plan Nacional de I+D+i. Suprograma de proyectos de investigación fundamental no orientada

Code according to the funding entity: FIS2011-29734-C02-02

Start-End date: 01/01/2012 - 31/12/2014

Duration: 18 months

Participating entity/entities: Universitat Politècnica de València; Universitat Politècnica de Catalunya; Universitat de València

Total amount: 100.000 €

39 Name of the project: Mejora del pre y post-procesamiento de imágenes ecográficas y elastográficas mediante teoría fuzzy.

Geographical area: Regional

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Samuel Morillas Gómez

Nº of researchers: 9

Funding entity or bodies:

Universitat Politècnica de València

Type of entity: University

City funding entity: Valencia, Valencian Community, Spain

Name of the programme: Programa de Apoyo a la I+D+i

Code according to the funding entity: PAID-05-12-SP20120696

Start-End date: 31/12/2012 - 31/12/2013

Duration: 12 months

Participating entity/entities: Universitat Politècnica de València

Total amount: 6.000 €

40 Name of the project: Implementación de un dispositivo de imagen elastográfica por fuerza de radiación

Geographical area: Regional

Entity where project took place: Universitat Politècnica de València

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia

Nº of researchers: 7

**Funding entity or bodies:**

Universitat Politècnica de València

Type of entity: University**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Programas de Apoyo a la I+D+i**Code according to the funding entity:** PAID-05-09-002-340**Start-End date:** 01/12/2011 - 01/02/2013**Duration:** 14 months**Participating entity/entities:** Universitat Politècnica de València**Total amount:** 6.000 €**41 Name of the project:** Optimización de técnicas ultrasónicas de diagnosis Basadas en vibroacustografía**Geographical area:** Regional**Entity where project took place:** Universitat**Type of entity:** University

Politécnica de València

Name principal investigator (PI, Co-PI....): Rubén Picó Vila**Nº of researchers:** 6**Funding entity or bodies:**

Universitat Politècnica de València

Type of entity: University**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Programas de Apoyo a la I+D+i**Code according to the funding entity:** PAID-06-10-002-295**Start-End date:** 01/11/2010 - 01/11/2012**Duration:** 24 months**Participating entity/entities:** Universitat Politècnica de València**Total amount:** 12.000 €**42 Name of the project:** Construcción de un dispositivo HIFU monitorizado por ultrasonidos**Geographical area:** Regional**Entity where project took place:** Universitat**Type of entity:** University

Politécnica de València

Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia**Nº of researchers:** 8**Funding entity or bodies:**

Universitat Politècnica de València

Type of entity: University**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Programas de Apoyo a la I+D+i**Code according to the funding entity:** PAID-05-09-002-618**Start-End date:** 15/12/2009 - 15/12/2010**Duration:** 12 months**Participating entity/entities:** Universitat Politècnica de València**Total amount:** 9.500 €**43 Name of the project:** Control de la difracción del sonido por estructuras periódicas o cuasi-periódicas**Geographical area:** Regional**Entity where project took place:** Universitat**Type of entity:** University

Politécnica de València

Name principal investigator (PI, Co-PI....): Rubén Picó Vila**Nº of researchers:** 4**Funding entity or bodies:**

Generalitat Valenciana

Type of entity: Público**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Proyectos de grupos Emergentes

**Code according to the funding entity:** GV-2011-055**Start date:** 01/01/2011**Duration:** 24 months**Participating entity/entities:** Universitat Politècnica de València**Total amount:** 4.500 €**44 Name of the project:** Estudio experimental y numérico de la propagación de ultrasonidos en medios heterogéneos**Geographical area:** Regional**Entity where project took place:** Universitat Politècnica de València**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Francisco Javier Redondo Pastor**Nº of researchers:** 4**Funding entity or bodies:**

Universitat Politècnica de València

Type of entity: University**City funding entity:** Valencia, Valencian Community, Spain**Name of the programme:** Programas de Apoyo a la I+D+i**Code according to the funding entity:** PAID-06-08-002-58**Start date:** 04/12/2008**Duration:** 24 months**Participating entity/entities:** Universitat Politècnica de València**Total amount:** 8.000 €**R&D non-competitive contracts, agreements or projects with public or private entities****1 Name of the project:** Compra Pública Precomercial Tecnologías no invasivas en neuromodulación (NeurHo)**Type of project:** Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Francisco Camarena**Nº of researchers:** 7**Participating entity/entities:** Universitat Politècnica de València**Funding entity or bodies:**

Centro para el Desarrollo Tecnológico Industrial

Type of entity: Business**Start date:** 02/02/2024**Duration:** 1 year - 10 months**Total amount:** 9.500.000 €**Relevant results:** First MRI-guided Therapeutic Ultrasound system for local neuromodulation. Low-field low-cost MRI combined with on acoustic holograms led to a cheap and portable and noninvasive brain neuromodulation system for deep-brain targeting.**2 Name of the project:** Apoyo para el desarrollo técnico de un sistema de hipertermia por ultrasonidos para animales pequeños**Type of project:** Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Alejandro Cebrecos**Nº of researchers:** 3**Participating entity/entities:** Universitat Politècnica de València**Funding entity or bodies:**

Scientia Bio Tech

Type of entity: Business**City funding entity:** Valencia, Spain**Start date:** 16/02/2022**Duration:** 4 months



Total amount: 98.000 €

- 3** **Name of the project:** Apoyo para la monitorización y tratamiento de hipertermia localizada por ultrasonidos invivo

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 3

Participating entity/entities: Universitat Politècnica de València

Funding entity or bodies:

Scientia Bio Tech

Type of entity: Business

City funding entity: Valencia, Spain

Start date: 16/02/2022

Duration: 9 months

Total amount: 99.500 €

- 4** **Name of the project:** Estudio de hipertermia con ultrasonidos focalizados, parámetros de excitación, evolución de la temperatura y protocolos

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 4

Funding entity or bodies:

Holosonic SL

Type of entity: Business

City funding entity: Valencia, Valencian Community, Spain

Code according to the funding entity: 66603098

Start date: 31/03/2021

Duration: 1 year

Total amount: 5.000 €

- 5** **Name of the project:** Estudio de viabilidad para la evaluación de la disfagia orofaríngea mediante señales acústicas

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 1

Funding entity or bodies:

Fundación para el fomento de la investigación sanitaria y biomédica de la Comunitat Valenciana (FISABIO)

Start date: 01/01/2021

Duration: 1 year

Total amount: 5.366,85 €

- 6** **Name of the project:** Haces ultrasónicos para aplicaciones alimentarias y biomédicas

Type of project: Research and development, including transfer

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 2

Participating entity/entities: Consejo Superior de Investigaciones Científicas

Funding entity or bodies:

Agencia Valenciana de la Innovación

Type of entity: Public Research Body

Start date: 01/01/2019

Duration: 1 year

Total amount: 250.000 €

- 7** **Name of the project:** Creacion de una unidad científica de innovación empresarial en el Instituto de Instrumentación para Imagen Molecular
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 3
Funding entity or bodies:
Agencia Valenciana de la Innovación **Type of entity:** Public Research Body
Code according to the funding entity: INNCON00/18/9
Start date: 01/01/2018 **Duration:** 1 year
Total amount: 250.000 €
- 8** **Name of the project:** Simulate a 3D nonlinear acoustic shock wave field
Type of project: Research and development, including transfer
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 2
Participating entity/entities: Universitat Politècnica de València
Funding entity or bodies:
qWave AS
Start date: 20/09/2017 **Duration:** 6 months
Total amount: 45.000 €
- 9** **Name of the project:** Informe pruebas de cavitación en laboratorio y medidas en la empresa
Type of project: Industrial research
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Camarena; Noé Jiménez
Nº of researchers: 2
Participating entity/entities: Universitat Politècnica de València
Funding entity or bodies:
Ultrasonidos LOVER, S.A.
Start date: 02/07/2014 **Duration:** 6 months
Total amount: 1.000 €
- 10** **Name of the project:** Calibración, asesoramiento y control de funcionamiento de cubas ultrasónicas para trasplantes de organos (20140025)
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Camarena; Noé Jiménez
Nº of researchers: 2
Funding entity or bodies:
Transplant Biomedicals **Type of entity:** Business
City funding entity: Barcelona, Spain
Start date: 10/06/2014 **Duration:** 1 year
Total amount: 11.000 €
- 11** **Name of the project:** Diseño de aislamiento y acondicionamiento acústico auditorio "La Mutant, Camino Hondo del Grao"
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services



Degree of contribution: Technician

Name principal investigator (PI, Co-PI....): Javier Redondo Pastor; Noé Jiménez González; Alejandro Cebrecos Ruiz

Nº of researchers: 3

Participating entity/entities: Universitat Politècnica de València

Funding entity or bodies:

Gomez-Ferrer Arquitectos

Type of entity: Business

City funding entity: Valencia, Spain

Ayuntamiento de Valencia

Type of entity: Public

City funding entity: Valencia, Spain

Start date: 01/05/2012

Duration: 4 months

Total amount: 3.000 €

12 Name of the project: Acondicionamiento acústico de sala de ensayos

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services

Name principal investigator (PI, Co-PI....): Rubén Picó Vila; Vicent Romero García; Noé Jiménez González; Alejandro Cebrecos Ruiz

Nº of researchers: 4

Funding entity or bodies:

Primitiva Setabense

Type of entity: Associations and Groups

City funding entity: Xàtiva, Spain

Start date: 30/04/2012

Duration: 1 month

Total amount: 1.000 €

13 Name of the project: Software development for audio subwoofer systems

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services

Degree of contribution: Technician

Name principal investigator (PI, Co-PI....): Javier Redondo Pastor; Noé Jiménez González

Participating entity/entities: Universitat Politècnica de València

Funding entity or bodies:

DAS Audio S.A.

Start date: 01/12/2009

Duration: 4 months

Total amount: 3.000 €

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** Sistema y método de terapia neurológica mediante holografía ultrasónica guiada por resonancia magnética de bajo campo
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noe Jimenez Gonzalez; Victor Vegas Luque; Josep Rodríguez Sendra; Juan José Rodríguez García; Eduardo Pallás Lodeiro; Pablo García Cristobal; Fernando Galve Conde; Alba Eroles Simó; Alicia Carrión García; Francisco Camarena Femenia; Jose María Benlloch Baviera; José Luis Alonso Ramos; Joseba Alonso Otamendi; José Miguel Algarín Guisado
Entity holder of rights: Universitat Politècnica de València
Nº of application: P202531019
Date of register: 03/11/2025
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
Operating aut.region/region: Spain
- 2** **Title registered industrial property:** Aparato para el tratamiento con ultrasonidos
Inventors/authors/obtainers: Noe Jimenez; Francisco Camarena; Jose María Benlloch; Josep Rodríguez Sendra; Juan José Rodríguez García; Jesus Limens; Juan J. Garcia Garrigos; José Luis Alonso; Adrián Luis Arándiga
Entity holder of rights: Universitat Politècnica de València
Nº of application: P202430264
Country of inscription: Spain
Date of register: 09/04/2024
- 3** **Title registered industrial property:** Método de imagen elastográfica empleando vórtices acústicos y ondas transversales
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez González; Francisco Camarena Femenía; Jose María Benlloch Baviera
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201930675
Country of inscription: Spain
Date of register: 22/07/2019
Conferral date: 06/08/2021
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
- 4** **Title registered industrial property:** Sistema y método de generación de haces acústicos confocales de vórtice con superposición espaciotemporal
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez; Kestutis Staliunas; Francisco Camarena
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P202030766
Country of inscription: Spain
Date of register: 22/07/2020
Conferral date: 06/08/2021



Spanish patent: Yes
International non-EU patent: Yes

EU patent: Yes
PCT patent: Yes

5 Title registered industrial property: Técnica de litotricia empleando vórtices acústicos

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Noé Jiménez; Francisco Camarena; Jose María Benlloch

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: P202030757

Date of register: 20/07/2020

Conferral date: 15/04/2021

Spanish patent: Yes

International non-EU patent: Yes

EU patent: Yes

PCT patent: Yes

6 Title registered industrial property: Dispositivo para la palpación de próstata

Description of qualities: RI Medical

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Carlos M. Atienza; Francisco Camarena; César D. Vera; Noé Jiménez; Ramón Moraga

Entity holder of rights: Consejo Superior de Investigaciones Científicas, Fundación para la investigación del hospital la Fe Valencia, Universitat Politècnica de València, Instituto de Biomecánica de València

Nº of application: P202130115

Country of inscription: Spain

Date of register: 15/02/2021

Spanish patent: Yes

International non-EU patent: Yes

EU patent: Yes

PCT patent: Yes

Licences: Yes

Products: Prostactum

7 Title registered industrial property: Método de fabricación de una lente y dispositivo de ultrasonidos que comprende dicha lente

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Noé Jiménez González; Francisco Camarena Femenía; Sergio Jiménez Gambín; Jose María Benlloch Baviera

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: P201831022

Country of inscription: Spain

Date of register: 22/10/2018

Conferral date: 30/04/2020

Spanish patent: Yes

International non-EU patent: Yes

EU patent: Yes

PCT patent: Yes

Operating aut.region/region: Australia / Brazil / Canada / China / Colombia / Spain / United States of America

Creating an innovative enterprise: Yes

Results derived from specialized and transfer activities, not included in previous sections

- 1** **Description:** Ultrasonic perforation and testing for the oil industry
Name of the principal Investigator (PI): Hans Petter Eng
Name of the Co-principal investigator (Co-PI): Francisco Camarena
Degree of contribution: Researcher
Results for improvement of products: Yes
Expert technologist: Yes
Collaborating entity or bodies:
qWave AS

Universitat Politècnica de València **Type of entity:** University
City collaborating entity: Valencia, Valencian Community, Spain

Start date: 20/09/2017 **Duration:** 6 months
- 2** **Description:** Double-panels based in metamaterials for soundproofing applications
Name of the principal Investigator (PI): Climent Lagarrigue
Degree of contribution: Researcher
Spin-off R&D companies: Yes
Results for improvement of products: Yes
Collaborating entity or bodies:
Centre national de la recherche scientifique (CNRS) **Type of entity:** Public Research Body
City collaborating entity: Le Mans, France

MetAcoustics **Type of entity:** Business
City collaborating entity: Le Mans, France

Start date: 15/09/2016 **Duration:** 1 year

Knowledge transfer and exchange

- **Number of patents :** 7 (2 licensed, 1 in negotiations).
- **Number of spin-off companies:** 1 (HOLOSONIC SL, 33% shares, biomedical devices)
- **Contracts with companies:** A total of 12. Two contracts with the European Space Agency (2014 and 2018), one pre-commercial public procurement from CDTI 9.5 M€.
- **P.I. in contracts:** 3.
- **Active non-disclosure agreements:** DORNIER Med Tech (NDA, Germany, 2024), STORZ Medical (NDA, Switzerland, 2024), Nyonix (NDA, 2025), SCIENTIA Bio Tech SL (NDA, 2021), HOLOSONIC SL (NDA, Valencia, 2020), COMET S.L. (NDA, Spain 2019), RPG Acoustics (NDA, USA 2019), MetAcoustics (NDA, France 2018), QWave AS (NDA, Norway 2017), Transplant Biomedicals SL.



Scientific and technological activities

Scientific production

1 H index: 29
Date of application: 21/11/2025
Source of H-Index: GOOGLE SCHOLAR

2 H index: 24
Date of application: 17/12/2024
Source of H-Index: SCOPUS

Publications, scientific and technical documents

1 G J Chaplain; F Langfeldt; V Romero-García; N Jiménez; L Chisari; P Mittal; Z Qi; S Subramanian; S Brûlé; S Enoch; S Guenneau; R Stoakes; C McLean; A Gardiner. The 2024 acoustic metamaterials roadmap. Journal of Physics D: Applied Physics. 58 - 44, pp. 433001. IOP, 23/10/2025. ISSN 0022-3727

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Total no. authors: 14

Impact source: WOS (JCR)

Category: Science Edition - PHYSICS, APPLIED

Impact index in year of publication: 3.1

Journal in the top 25%: Yes

Position of publication: 63

No. of journals in the cat.: 179

2 Irene Pi-Martin; Carla Vidaurre-Agut; Eva Maria Rivero-Buceta; Alejandro Cebrecos; Juan Jose Garcia-Garrigos; Noe Jimenez; Jose Maria Benlloch; Pablo Botella; Francisco Camarena. Nanoparticles of non-porphyrinic covalent organic frameworks as contrast agents for photoacoustic imaging. Scientific Reports. 15, Nature, 30/09/2025. ISSN 2045-2322

DOI: 10.1038/s41598-025-08631-w

Type of production: Scientific paper

Format: Journal

Position of signature: 6

Total no. authors: 9

Impact source: WOS (JCR)

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Impact index in year of publication: 3.9

Journal in the top 25%: Yes

Position of publication: 25

No. of journals in the cat.: 135

3 F. Lopez-Berenguer; A. Gonzalez-Montoro; M. Freire; A. Gonzalez-Tamarit; S. Jimenez-Serrano; L.F. Vidal; M. Gil; F. Loignon-Houle; I. Torres; J.L. Sachs; J.V. Rispoli; N. Tustison; S.S. Berr; M.B. Williams; D. Andres; J.J. Rodriguez-Garcia; J.L. Alonso-Ramos; N. Jimenez; A. Carrion; F. Camarena; T. Guallart-Naval; J.M. Algarin; R. Bosch; E. Pallas; J. Alonso; N.D. Sheybani; S. Maslova; T. Sherlock; A. Thede; Z.E.F. Demir; M. Hoch; J. He; J.M. Benlloch; M.J. Rodriguez-Alvarez; A.J. Gonzalez. Evaluation of a PET Insert for Trimodal Imaging: A Step Towards PET/MRI-Guided Focused Ultrasound. IEEE Transactions on Radiation and Plasma Medical Sciences. 29/09/2025. ISSN 2469-7311

DOI: 10.1109/TRPMS.2025.3615467

Type of production: Scientific paper

Format: Journal

Position of signature: 18

**Total no. authors:** 35**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.5**Position of publication:** 18**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 212

- 4** Eric Ballester; Josep Rodriguez-Sendra; Vicent Romero-Garcia; Jean-Philippe Groby; Noe Jimenez. Bidirectional Lambertian Scatterers Using Acoustic Holograms for the Simultaneous Control of Reflected and Transmitted Wavefronts. Advanced Functional Materials. 35, WILEY-V C H VERLAG GMBH, 06/03/2025. ISSN 1616-301X

DOI: 10.1002/adfm.202423715**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 5**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 18.5**Journal in the top 25%:** Yes**Position of publication:** 9**No. of journals in the cat.:** 179

- 5** Rachel Burstow; Diana Andres; Noe Jimenez; Francisco Camarena; Maya Thanou; Antonios N. Pouliopoulos. Acoustic holography in biomedical applications. Physics in Medicine and Biology. 70 - 6, IOP Publishing Ltd, 03/03/2025. ISSN 0031-9155

DOI: 10.1088/1361-6560/adb89a**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 6**Impact source:** WOS (JCR)**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING**Impact index in year of publication:** 3.3**Journal in the top 25%:** Yes**Position of publication:** 42**No. of journals in the cat.:** 204

- 6** Enrique González-Mateo; Francisco Camarena; Noé Jiménez. Real-time ultrasound shear wave elastography using a local phase gradient. Computer Methods and Programs in Biomedicine. 260, pp. 108529. Elsevier, 05/12/2024. ISSN 0169-2607

DOI: 10.1016/j.cmpb.2024.108529**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 3**Impact source:** WOS (JCR)**Corresponding author:** Yes**Category:** Science Edition - COMPUTER SCIENCE, THEORY & METHODS**Impact index in year of publication:** 4.9**Journal in the top 25%:** Yes**Position of publication:** 20**No. of journals in the cat.:** 144

- 7** Nathalie Lamothe; Diana Andrés; Alicia Carrión; Francisco Camarena; José A. Pineda-Pardo; Noé Jiménez. Monitoring holograms for therapeutic ultrasound using passive cavitation beamforming. Applied Acoustics. 224, pp. 110144. Elsevier, 05/09/2024. ISSN 0003-682X

DOI: 10.1016/j.apacoust.2024.110144**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 6**Total no. authors:** 6**Impact source:** WOS (JCR)**Corresponding author:** Yes**Category:** Science Edition - ACOUSTICS

**Impact index in year of publication:** 3.4**Position of publication:** 6**Journal in the top 25%:** Yes**No. of journals in the cat.:** 40

- 8** Irene Pi-Martín; Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. Spatial resolution and reconstructed size accuracy using advanced beamformers in linear array-based PAT systems. *Photoacoustics*. 34, pp. 100576. Elsevier, 10/12/2023.
DOI: 10.1016/j.pacs.2023.100576
Type of production: Scientific paper
- 9** D. Andrés; A. Carrión; F. Camarena; N. Jiménez. Methods to design and evaluate transcranial ultrasonic lenses using acoustic holography. *Physical Review Applied*. 20 - 4, pp. 044071. American Physical Society, 26/10/2023.
DOI: 10.1103/PhysRevApplied.20.044071
Type of production: Scientific paper
- 10** Gail ter Haar; Francisco Camarena; Noé Jiménez; Petros Mouratidis; Ian Rivens; Diana Andrés. Holographic Focused Ultrasound Hyperthermia System for Uniform Simultaneous Thermal Exposure of Multiple Tumor Spheroids. *Cancers*. 15 - 9, pp. 2540. 28/04/2023.
DOI: 10.3390/cancers15092540
Type of production: Scientific paper
- 11** A.O. Krushynska; D. Torrent; Noé Jiménez. Emerging topics in nanophononics and elastic, acoustic, and mechanical metamaterials: an overview. *Nanophotonics*. 12 - 4, pp. 659 - 686. De Gruyter, 27/01/2023. ISSN 2192-8614
DOI: 10.1515/nanoph-2022-0671
Type of production: Scientific paper
- 12** Diana Andrés; Noé Jiménez; José M. Benlloch; Francisco Camarena. Numerical Study of Acoustic Holograms for Deep-Brain Targeting through the Temporal Bone Window. *Ultrasound in Medicine and Biology*. 48 - 5, pp. 872 - 886. Elsevier, 01/05/2022.
DOI: 10.1016/j.ultrasmedbio.2022.01.010
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 13** Gabrieliūs Kontenis; Darius Gailevicius; Noé Jiménez; Kestutis Staliūnas. Optical drills by dynamic high-order Bessel beam mixing. *Physical Review Applied*. 17, pp. 034059. APS, 25/03/2022. ISSN 0301-5629
DOI: 10.1103/PhysRevApplied.17.034059
Type of production: Scientific paper **Format:** Journal
- 14** Sergio Jimenez-Gambií; Noé Jiménez; Antonios Pouliopoulos; Jose Maria Benlloch; Elisa E. Konofagou; Francisco Camarena. Acoustic holograms for bilateral blood-brain barrier opening in a mouse model. *IEEE Transactions on Biomedical Engineering*. 69 - 4, pp. 1359 - 1368. IEEE, 03/03/2022. ISSN 0018-9294
DOI: 10.1109/TBME.2021.3115553
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 6 **Corresponding author:** No
- 15** Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. Thermal holographic patterns for ultrasound hyperthermia. *Applied Physics Letters*. 120 - 8, pp. 084102. AIP, 22/02/2022.
Type of production: Scientific paper **Format:** Journal



- 16** Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Víctor J. Sánchez-Morcillo; Jean Philippe-Groby; Luis M. García-Raffi. Natural sonic crystal absorber constituted of seagrass (*Posidonia Oceanica*) fibrous spheres. *Scientific Reports*. 11, pp. 711-1 - 711-8. Nature Publishing Group, 01/12/2021. Available on-line at: <<https://doi.org/10.1038/s41598-019-56369-z>>. ISSN 2045-2322

DOI: 10.1038/s41598-020-79982-9

Type of production: Scientific paper

Format: Journal

Position of signature: 3

Total no. authors: 6

Corresponding author: Yes

Impact source: WOS (JCR)

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact index in year of publication: 4.22

Journal in the top 25%: Yes

Position of publication: 10

No. of journals in the cat.: 64

- 17** Eric Ballesterio; Brian Hamilton; Noé Jiménez; Vicent Romero-García; Jean-Pilippe Groby; Haydar Aygün; Stephen Dance. Scattering Evaluation of Equivalent Surface Impedances of Acoustic Metamaterials in Large FDTD Volumes Using RLC Circuit Modelling. *Applied Sciences-Basel*. 11 - 17, pp. 80842 -1 - 80842 -15. MDPI, 31/08/2021. ISSN 2076-3417

DOI: 10.3390/app11178084

Type of production: Scientific paper

Format: Journal

Position of signature: 3

Impact source: WOS (JCR)

Category: PHYSICS, APPLIED

Impact index in year of publication: 1.679

Journal in the top 25%: No

Position of publication: 75

No. of journals in the cat.: 148

- 18** Eric Ballesterio; Noé Jiménez; Jean-Philippe Groby; Haydar Aygün; Stephen Dance; Vicent Romero-García. Metadiffusers for quasi-perfect and broadband sound diffusion. *Applied Physics Letters*. 119 - 4, pp. 044101 -1 - 044101 -5. AIP Publishing, 26/07/2021. ISSN 0003-6951

DOI: <https://doi.org/10.1063/5.0053413>

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 6

Corresponding author: No

Impact source: WOS (JCR)

Category: Science Edition - PHYSICS, APPLIED

Impact index in year of publication: 3,495

Journal in the top 25%: Yes

Position of publication: 29

No. of journals in the cat.: 146

- 19** Noé Jiménez; Jean Philippe-Groby; Vicente Romero-García. Spiral sound-diffusing metasurfaces based on holographic vortices. *Scientific Reports*. 11, pp. 10217-1 - 10217-13. Nature Publishing Group, 13/05/2021. Available on-line at: <<https://doi.org/10.1038/s41598-021-89487-8>>. ISSN 2045-2322

DOI: 10.1038/s41598-021-89487-8

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 3

Corresponding author: Yes

Impact source: WOS (JCR)

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact index in year of publication: 4.22

Journal in the top 25%: Yes

Position of publication: 10

No. of journals in the cat.: 64

- 20** Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicent Romero-García. Subwavelength acoustic vortex beams using self-demodulation. *Physical Review Applied*. 15 - 5, pp. 054027-1 - 054027-14. American Physics Society, 13/05/2021. Available on-line at: <<https://doi.org/10.1103/PhysRevApplied.15.054027>>. ISSN 2331-7019

**DOI:** 10.1103/PhysRevApplied.15.054027**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** WOS (JCR)**Impact index in year of publication:** 4,782**Position of publication:** 10**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64

- 21** Alejandro Cebrecos; Noé Jiménez; Miguel Company; Rafael Tarazona; José M Benlloch; Francisco Camarena. Characterization of viscoelastic media combining ultrasound and magnetic-force induced vibrations on an embedded soft magnetic sphere. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. Accepted (04/2021), pp. -. IEEE, 01/04/2021. ISSN 0885-3010

DOI: <https://doi.org/10.1109/TUFFC.2021.3097883>**Type of production:** Scientific paper**Position of signature:** 2**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 2,472**Position of publication:** 6**Format:** Journal**Category:** Acoustics and Ultrasonics**Journal in the top 25%:** Yes**No. of journals in the cat.:** 31

- 22** Alejandro Cebrecos; Juan José García-Garrigos; Andreu Descals; Noé Jiménez; Jose M. Benlloch; Francisco Camarena. Beamforming for large-area scan and improved SNR in array-based photoacoustic microscopy. Ultrasonics. 111, pp. 106317-1 - 106317-8. Elsevier, 01/03/2021. ISSN 0041-624X

DOI: 10.1016/j.ultras.2020.106317**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 6**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.327**Position of publication:** 8**Format:** Journal**Category:** ACOUSTICS**Journal in the top 25%:** No**No. of journals in the cat.:** 31

- 23** Josep Rodríguez-Sendra; Inés Torres; Noé Jiménez; Salvatore Sauro; Francisco Camarena. Ultrasonic monitoring of dentin demineralization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. 68 - 3, pp. 570 - 578. IEEE, 01/03/2021. ISSN 1525-8955

DOI: <https://doi.org/10.1109/TUFFC.2020.3015668>**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Format:** Journal**Corresponding author:** No

- 24** Vicent Romero-García; Noé Jiménez; Jean-Philippe Groby; Aulerien Merkel; Vincent Tournat; Georgios Theocharis; Olivier Richoux; Vicent Pagneux. Perfect absorption in mirror-symmetric acoustic metascreens. Physical Review Applied. 14 - 5, pp. 054055-1 - 054055-9. American Physics Society, 21/11/2020. ISSN 2331-7019

DOI: 10.1103/PhysRevApplied.14.054055**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 8**Impact source:** WOS (JCR)**Impact index in year of publication:** 4,782**Format:** Journal**Corresponding author:** No**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes

**Position of publication:** 10**No. of journals in the cat.:** 64

- 25** Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. Transcranial focusing of ultrasonic vortices by acoustic holograms. *Physical Review Applied*. 14 - 5, pp. 1 - 10. American Physics Society, 05/10/2020. ISSN 2331-7019

DOI: 10.1103/PhysRevApplied.14.054070**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 3**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 4,782**Journal in the top 25%:** Yes**Position of publication:** 10**No. of journals in the cat.:** 64

- 26** Vicente Romero-García; Noé Jiménez; Georgios Theocharis; Vassos Achilleos; Aurelien Merkel; Olivier Richoux; Vincent Tournat; Jean-Philippe Groby; Vincent Pagneux. Design of acoustic metamaterials made of Helmholtz resonators for perfect absorption by using the complex frequency plane. *Comptes Rendus Physique*. 21 - 7-8, pp. 713 - 749. Elsevier, 19/08/2020. ISSN 1631-0705

DOI: <https://doi.org/10.5802/crphys.32>**Type of production:** Scientific paper**Format:** Journal**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY**Impact index in year of publication:** 2,646**Journal in the top 25%:** Yes**Position of publication:** 16**No. of journals in the cat.:** 78

- 27** Sergio Jiménez-Gambín; Noé Jiménez; José M. Benlloch; Francisco Camarena. Generating Bessel beams with broad depth-of-field by using phase-only acoustic holograms. *Scientific Reports*. 9 - 1, pp. 20104-1 - 20104-12. Nature Publishing Group, 27/12/2019. Available on-line at: <<https://doi.org/10.1038/s41598-019-56369-z>>. ISSN 2045-2322

DOI: 10.1038/s41598-019-56369-z**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 4**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Impact index in year of publication:** 4.22**Journal in the top 25%:** Yes**Position of publication:** 10**No. of journals in the cat.:** 64

- 28** Eric Ballester; Noé Jiménez; Jean-Philippe Groby; S. Dance; H. Aygun; Vicent Romero-García. Experimental validation of deep-subwavelength diffusion by metadiffusers. *Applied Physics Letters*. 115 - 8, pp. 081901-1 - 081901-6. AIP Publishing, 09/08/2019. ISSN 0003-6951

DOI: <https://doi.org/10.1063/1.5114877>**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 6**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 3,495**Journal in the top 25%:** Yes**Position of publication:** 29**No. of journals in the cat.:** 146



- 29** Antonio A. Fernández-Marín; Noé Jiménez; Jean-Philippe Groby; José Sánchez-Dehesa; Vicente Romero-García. Aerogel-based metasurfaces for perfect acoustic energy absorption. Applied Physics Letters. 115 - 6, pp. 061901-1 - 061901-6. AIP Publishing, 01/07/2019. ISSN 0003-6951
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 5 **Corresponding author:** No
Impact source: WOS (JCR) **Category:** Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 3,495 **Journal in the top 25%:** Yes
Position of publication: 29 **No. of journals in the cat.:** 146
- 30** Josep Rodríguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena. Monitoring the setting of calcium sulphate bone-graft substitute using ultrasonic backscattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. 66 - 10, pp. 1658 - 1666. IEEE, 02/05/2019. ISSN 0885-3010
DOI: <https://doi.org/10.1109/TUFFC.2019.2926827>
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Corresponding author: No
Impact source: WOS (JCR) **Category:** Acoustics and Ultrasonics
Impact index in year of publication: 2,472 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 31
- 31** Sergio Jiménez-Gambín; Noé Jiménez; José M Benlloch; Francisco Camarena. Holograms to focus arbitrary ultrasonic fields through the skull. Physical Review Applied. 12 - 1, pp. 014016-1 - 014016-14. American Physics Society, 28/04/2019. ISSN 2045-2322
DOI: 10.1103/PhysRevApplied.12.014016
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** Yes
Impact source: WOS (JCR) **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 32** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Complex frequency analysis of the scattering matrix for the design of perfect absorbers in reflection and transmission problems. The Journal of the Acoustical Society of America. 144 - 3, pp. 1755 - 1755. 18/09/2018. ISSN 0001-4966
DOI: 10.1121/1.5067771
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 4 **Corresponding author:** Yes
Impact source: WOS (JCR) **Category:** ACOUSTICS
Impact index in year of publication: 1.845 **Journal in the top 25%:** No
- 33** Noé Jiménez; Vicent Romero-García; Lluís M García-Raffi; Francisco Camarena; Kestutis Staliunas. Strongly focused vortex beams by using flat Fresnel-spiral lenses. The Journal of the Acoustical Society of America. 144 - 3, pp. 1932 - 1932. 18/09/2018. ISSN 0001-4966
DOI: 10.1121/1.5068456
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 5 **Corresponding author:** Yes

**Impact source:** WOS (JCR)**Impact index in year of publication:** 1.845**Category:** ACOUSTICS**Journal in the top 25%:** No

- 34** Mónica Jiménez-Castro; Francisco Camarena; María Eugenia Cornide-Petronio; Noé Jiménez; José Gulfo; Ana I. Álvarez-Mercado; Jordi Gracia-Sancho; Carmen Peralta. Transport and preservation of liver in a revolutionary medical device. Transplantation. 102, pp. S789. 01/07/2018. ISSN 0041-1337

DOI: 10.1097/01.tp.0000543813.47820.78**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 8**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** SURGERY**Impact index in year of publication:** 3,678**Journal in the top 25%:** Yes**Position of publication:** 28**No. of journals in the cat.:** 197

- 35** Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby. Perfect absorption of sound by rigidly-backed highly-porous materials. Acta Acustica united with Acustica. 104 - 3, pp. 396 - 409. S. Hirzel Verlag, 15/05/2018. ISSN 1861-9959

DOI: 10.3813/AAA.919183**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 3**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** Science Edition - ACOUSTICS**Impact index in year of publication:** 1,119**Journal in the top 25%:** No**Position of publication:** 19**No. of journals in the cat.:** 31

- 36** Noé Jiménez; Vicent Romero-García; Lluís Miquel Garcia-Raffi; Francisco Camarena; Kestutis Staliunas. Sharp acoustic vortex focusing by Fresnel-spiral zone plates. Applied Physics Letters. 112 - 20, pp. 204101. American Institute of Physics, 10/04/2018. ISSN 1077-3118

DOI: 10.1063/1.5029424**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 5**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 3,411**Journal in the top 25%:** Yes**Position of publication:** 29**No. of journals in the cat.:** 148

- 37** Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Iván Herrero-Durá; Javier Redondo; Víctor J. Sánchez-Morcillo; Alejandro Cebrecos; Noé Jiménez; Vicent Romero-García; Kestutis Staliunas; Nick J.E. Adkins. Broadband reduction of the specular reflections by using sonic crystals: a proof of concept for noise mitigation in aerospace applications. Aerospace Science and Technology. 73, pp. 300 - 308. Elsevier, 01/02/2018. ISSN 1270-9638

DOI: 10.1016/j.ast.2017.11.048**Type of production:** Scientific paper**Position of signature:** 7**Total no. authors:** 10**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** Aerospace Engineering**Impact index in year of publication:** 2.057**Journal in the top 25%:** Yes**Position of publication:** 54**No. of journals in the cat.:** 193



- 38** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Rainbow-trapping absorbers: Broadband, perfect and asymmetric sound absorption by subwavelength panels with transmission. Scientific Reports. 7 - 1, pp. 13595. Nature Publishing Group, 29/09/2017. ISSN 2045-2322
DOI: <https://doi.org/10.1038/s41598-017-13706-4>
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 39** Monica Bibiana Jimenez-Castro; Francisco Camarena; María Eugenia Cornide-Petronio; Noé Jiménez; Jordi Gracia-Sancho; Carmen Peralta. A new medical device in transplantation for liver transport and preservation. Transplant international. 30, pp. 572. 24/09/2017. ISSN 0934-0874
DOI: 10.1111/tri.13053
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 6 **Corresponding author:** No
Impact source: WOS (JCR) **Category:** Surgery
Impact index in year of publication: 3.196 **Journal in the top 25%:** Yes
Position of publication: 38 **No. of journals in the cat.:** 200
- 40** Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby. Metadiffusers: Deep-subwavelength sound diffusers. Scientific Reports. 7, pp. 5389. Nature Publishing Group, 14/07/2017. ISSN 2045-2322
DOI: 10.1038/s41598-017-05710-5
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 41** Ahmed Mehrem; Noé Jiménez; Luis Salmerón-Contreras; Xavier García-Andrés; Lluís M. García-Raffi; Rubén Picó; Víctor J. Sánchez-Morcillo. Nonlinear dispersive waves in repulsive lattices. Physical Review E. 96 - 1, pp. 012208. 12/07/2017. ISSN 1539-3755
DOI: 10.1103/PhysRevE.96.012208
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Impact source: WOS (JCR) **Category:** PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.366 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 55
- 42** Vicente Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Philippe Groby. Perfect and broadband acoustic absorption in deep sub-wavelength structures for the reflection and transmission problems. The Journal of the Acoustical Society of America. 141 - 5, pp. 3641 - 3641. 19/06/2017. ISSN 0001-4966
DOI: 10.1121/1.4987858
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: WOS (JCR) **Category:** ACOUSTICS



Impact index in year of publication: 1.547
Position of publication: 16

Journal in the top 25%: No
No. of journals in the cat.: 31

- 43** Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux; Vicent Romero-García. Iridescent Perfect Absorption in Critically-Coupled Acoustic Metamaterials Using the Transfer Matrix Method. Applied Sciences-Bassel. 7 - 6, pp. 618. 14/06/2017. ISSN 2076-3417

DOI: 10.3390/app7060618

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Impact source: WOS (JCR)

Category: PHYSICS, APPLIED

Impact index in year of publication: 1.679

Journal in the top 25%: No

Position of publication: 75

No. of journals in the cat.: 148

- 44** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Quasiperfect absorption by subwavelength acoustic panels in transmission using accumulation of resonances due to slow sound. Physical Review B. 95 - 1, pp. 014205. 01/01/2017. ISSN 2469-9950

DOI: 10.1103/PhysRevB.95.014205

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Impact source: WOS (JCR)

Category: PHYSICS, CONDENSED MATTER

Impact index in year of publication: 3.836

Journal in the top 25%: No

Position of publication: 18

No. of journals in the cat.: 67

- 45** N. Jiménez; F. Camarena; N. González-Salido. Dynamic nonlinear focal shift in amplitude modulated moderately focused acoustic beams. Ultrasonics. 75, pp. 106 - 114. 28/11/2016. ISSN 0041-624X

DOI: 10.1016/j.ultras.2016.11.021

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Impact source: WOS (JCR)

Category: ACOUSTICS

Impact index in year of publication: 2.327

Journal in the top 25%: No

Position of publication: 8

No. of journals in the cat.: 31

- 46** A. Cebrecos; N. Jiménez; V. Romero-García; R. Picó; V. Sánchez-Morcillo; L.M. García-Raffi. Asymmetric propagation using enhanced self-demodulation in a chirped phononic crystal. AIP Advances. 6, pp. 121601. 23/11/2016. ISSN 2158-3226

DOI: 10.1063/1.4968612

Type of production: Scientific paper

Format: Journal

Impact source: WOS (JCR)

Category: PHYSICS, APPLIED

Impact index in year of publication: 1.568

Journal in the top 25%: No

Position of publication: 83

No. of journals in the cat.: 148

- 47** Noé Jiménez; Rubén Picó; Víctor José Sánchez Morcillo; Vicent Romero García; Lluís Miquel García Raffi; Kestutis Staliunas. Formation of high-order acoustic Bessel beams by spiral diffraction gratings. Physical Review E. 95 - 4, pp. 053004. 23/11/2016. ISSN 2470-0053

DOI: 10.1103/PhysRevE.94.053004

Type of production: Scientific paper

Format: Journal

Position of signature: 1

**Corresponding author:** Yes**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.366**Position of publication:** 6**Category:** PHYSICS, MATHEMATICAL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 55

- 48** N. Jiménez; V. Romero-García; A. Cebrecos; R. Picó; V. J. Sánchez-Morcillo; L.M. García-Raffi. Broadband quasi perfect absorption using chirped multi-layer porous materials. AIP Advances. 6, pp. 121605. 15/11/2016. Available on-line at: <<http://dx.doi.org/10.1063/1.4971274>>. ISSN 2158-3226

DOI: 10.1063/1.4971274**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** PHYSICS, APPLIED**Impact index in year of publication:** 1.568**Journal in the top 25%:** No**Position of publication:** 83**No. of journals in the cat.:** 148

- 49** N. Jiménez; W. Huang; V. Romero-García; V. Pagneux; J.-P. Groby. Ultra-thin metamaterial for perfect and quasi-omnidirectional sound absorption. Applied Physics Letters. 109 - 12, pp. 121902. 20/09/2016. ISSN 1077-3118

DOI: 10.1063/1.4962328**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** PHYSICS, APPLIED**Impact index in year of publication:** 3.411**Journal in the top 25%:** Yes**Position of publication:** 29**No. of journals in the cat.:** 148

- 50** Noé Jiménez; Francisco Camarena; Javier Redondo; Víctor Sánchez; Yi Hou; Elisa E. Konofagou. Time-domain simulation of ultrasound propagation in a tissue-like medium based on the resolution of the nonlinear acoustic constitutive relations. Acta Acustica united with Acustica. 102 - 5, pp. 876 - 892. 01/09/2016. ISSN 1610-1928

DOI: 10.3813/AAA.919002**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** ACOUSTICS**Impact index in year of publication:** 1.119**Journal in the top 25%:** No**Position of publication:** 19**No. of journals in the cat.:** 31

- 51** N. Jiménez; A. Mehrem; R. Picó; L.M. García-Raffi; V.J. Sánchez-Morcillo. Nonlinear propagation and control of acoustic waves in phononic superlattices. Comptes Rendus Physique. 17 - 5, pp. 543 - 554. 28/02/2016. ISSN 1631-0705

DOI: 10.1016/j.crhy.2016.02.004**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** WOS (JCR)**Category:** PHYSICS, MULTIDISCIPLINARY**Impact index in year of publication:** 2.048**Journal in the top 25%:** No**Position of publication:** 21**No. of journals in the cat.:** 79



- 52** Jennifer Chaline; Noé Jiménez; Ahmed Mehrem; Ayache Bouakaz; Serge Dos Santos; Víctor J. Sánchez-Morcillo. Macroscopic acousto-mechanical analogy of a microbubble. The Journal of the Acoustical Society of America. 138 - 6, pp. 3600 - 3606. 16/11/2015. ISSN 0001-4966
DOI: 10.1121/1.4936949
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 1.547
Position of publication: 16
Format: Journal
Category: ACOUSTICS
Journal in the top 25%: No
No. of journals in the cat.: 31
- 53** Noé Jiménez; Vicent Romero-García; Rubén Picó; Lluís M. García-Raffi; K. Staliunas. Nonlinear focusing of ultrasonic waves by an axisymmetric diffraction grating embedded in water. Applied Physics Letters. 107 - 20, pp. 204103. 16/11/2015. ISSN 1077-3118
DOI: 10.1063/1.4935917
Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: WOS (JCR)
Impact index in year of publication: 3.411
Position of publication: 29
Format: Journal
Category: PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 148
- 54** El Mokhtar El Mokhtar; Noé Jiménez González; Rubén Picó; Víctor Sánchez Morcillo; Luís M García Raffi; Kestutis Staliunas. Nonlinear self-collimated sound beams in sonic crystals. Physical Review B. 92, pp. 054302. 06/08/2015. ISSN 2469-9969
DOI: 10.1103/PhysRevB.92.054302
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 3.836
Position of publication: 18
Format: Journal
Category: PHYSICS, CONDENSED MATTER
Journal in the top 25%: No
No. of journals in the cat.: 67
- 55** Juan F.R. Archilla; Yuri Kosevich; Noé Jiménez; Víctor José Sánchez; Luis Miguel García. Ultradiscrete kinks with supersonic speed in a layered crystal with realistic potentials. Physical Review E. 91, pp. 22912 - 22924. 13/02/2015. ISSN 1539-3755
DOI: 10.1103/PhysRevE.91.022912
Type of production: Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 2.366
Position of publication: 6
Format: Journal
Category: PHYSICS, MATHEMATICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 55
- 56** Noé Jiménez González; Vicent Romero García; Rubén Picó; Alejandro Cebrecos Ruiz; Víctor Sánchez Morcillo; Lluís Miquel García Raffi; Juan Vicente Sánchez Pérez; Kestutis Staliunas. Acoustic Bessel-like beam formation by an axisymmetric grating. Europhysics Letters. 106 - 2, pp. 24005. 30/04/2014. ISSN 0295-5075
Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: WOS (JCR)
Impact index in year of publication: 1.957
Position of publication: 23
Format: Journal
Category: PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 79



- 57** Juan Francisco Rodríguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. Moving excitations In cation lattices. Ukranian Journal of Physics. 58, pp. 646 - 656. 01/01/2013. Available on-line at: <<http://ujp.bitp.kiev.ua/files/journals/58/7/580705p.pdf>>. ISSN 0503-1265
Type of production: Scientific paper **Format:** Journal
- 58** Francisco Camarena; Silvia Adrián; Noé Jiménez; Víctor José Sánchez. Nonlinear focal shift beyond the geometrical focus in moderately focused acoustic beams. The Journal of the Acoustical Society of America. 134 - 2, pp. 1463 - 1472. 01/01/2013. ISSN 0001-4966
DOI: 0.1121/1.4812865
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** ACOUSTICS
Impact index in year of publication: 1.547 **Journal in the top 25%:** No
Position of publication: 16 **No. of journals in the cat.:** 31
- 59** Noe Jimenez; Rubén Picó; Francisco Camarena; Francisco Javier Redondo; Bernardino Roig. Ultrasonic evaluation of the hydration degree of the orange peel. Postharvest Biology and Technology. 67, pp. 130 - 137. 26/01/2012. ISSN 0925-5214
DOI: 10.1016/j.postharvbio.2011.12.020
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
Impact source: WOS (JCR) **Category:** FOOD SCIENCE & TECHNOLOGY
Impact index in year of publication: 3.248 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 130
- 60** Noé Jiménez González; Rubén Picó; J. Redondo. The Parpalló cave: a singular archaeological acoustic site. Journal of the Acoustical Society of America. 123 - 5, pp. 3608. 15/05/2008. ISSN 0001-4966
DOI: 10.1121/1.2934790
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
- 61** I. Pi-Martín; C.M. Vidaurre-Agut; A. Cebrecos; J.J. García-Garrigós; N. Jiménez; P. Botella; F. Camarena. Imagen fotoacústica empleando nanopartículas de redes orgánicas covalentes (nCOFs) como agente de contraste. Revista de Acústica. 54 - 3-4, pp. 28 - 33. Sociedad Española de Acústica, 15/10/2023.
Type of production: Popular science article
- 62** E.M. González-Mateo; J. Rodríguez-Sendra; F. Camarena; N. Jiménez. Midiendo la elasticidad de tejidos biológicos empleando ultrasonidos. Revista de Acústica. 54 - 3-4, pp. 12 - 19. Sociedad Española de Acústica, 15/10/2023.
Type of production: Popular science article
Corresponding author: Yes
- 63** Irene Pi-Martín; Juan José García-Garrigos; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. Evaluación del rendimiento de algoritmos de reconstrucción de imágenes para tomografía fotoacústica. Revista de Acústica. 53 - 1-2, pp. 15 - 21. Sociedad Española de Acústica, 03/04/2022. Available on-line at: <http://www.sea-acustica.es/fileadmin/publicaciones/02_25.pdf>. ISSN 0210-3680
Type of production: Popular science article **Format:** Journal
Position of signature: 4
Total no. authors: 5



- 64** Noé Jiménez. Hologramas acústicos para terapia en neurología. Revista Española de Física. 31 - 1, pp. 44 - 44. Real Sociedad Española de Física, 01/07/2021.
Type of production: Popular science article **Format:** Journal
Corresponding author: Yes
- 65** Vicente Romero-García; Vincent Pagneux; Jean Philippe-Groby; Noé Jiménez; Eric Ballesterro. Metamateriaux pour l'acoustique audible : Absorption parfaite et diffusion sublongueur d'onde. Acoustic & Techniques. 94/95, pp. 33 - 39. 02/11/2020. ISSN 1263 - 8072
Type of production: Popular science article **Format:** Journal
Position of signature: 4
Total no. authors: 5
- 66** S Jiménez-Gambín; N Jiménez; F Camarena. Efecto del método de definición de las propiedades acústicas de cráneo humano en la propagación focalizada de ultrasonidos. Revista de Acústica. 50 - 1-2, pp. 22 - 25. 03/02/2019.
Type of production: Popular science article
- 67** Diana Andres-Bautista; Sergio Jlménez-Gambín; Noé Jiménez; Franscisco Camarena. Hologramas acústicos multifocales para el tratamiento con ultrasonidos de estructuras cerebrales profundas. Revista de Acústica. 25 - 1-2, pp. 17 - 25. Sociedad Española de Acústica, 03/02/2019.
Type of production: Popular science article
- 68** Noe Jimenez Gonzalez; Francisco Camarena Femenia; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila. Propagación no lineal de haces de ultrasonidos a través del cráneo para la apertura de la barrera hematoencefálica. Revista de Acústica. 1, pp. 3 - 8. 30/06/2012. ISSN 2173-6634
Type of production: Popular science article **Format:** Journal
Position of signature: 1
Corresponding author: Yes
- 69** Silvia Adrián Martínez; Noe Jimenez Gonzalez; Francisco Camarena Femenia; Víctor José Sánchez Morcillo; Yuri Makov. Caracterización del campo acustico generado por transductores focalizados. Revista de Acústica. 42, pp. 7 - 15. Sociedad Acústica Española, 30/06/2011. Available on-line at: <http://www.sea-acustica.es/fileadmin/publicaciones/revista_VOL42-12_03_01.pdf>. ISSN 2254-2396
Type of production: Popular science article **Format:** Journal
- 70** Vicent Romero-García; Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux. Acoustic Metamaterials for Sub-wavelength, Broadband, and Perfect Absorption in Ventilated Problems. Acoustic Metamaterials. pp. 343 - 372. Cham(Switzerland): Springer Nature Switzerland, 17/11/2024. ISBN 978-3-031-60014-2
DOI: 10.1007/978-3-031-60015-9_13
Type of production: Book chapter **Format:** Book
Position of signature: 2
Total no. authors: 4
- 71** Noé Jiménez. Materials for Acoustic Wave Generation and Modulation. Acoustic Technologies in Biology and Medicine. Chapter 3, pp. 317 - 331. Wiley-VCH Verlag, 06/10/2023. ISBN 978-3-527-35062-9
DOI: 10.1002/9783527841325.ch3
Type of production: Book chapter
Corresponding author: Yes
- 72** Jean-Philippe Groby; Noé Jiménez; Vicent Romero-García. Acoustic Metamaterial Absorbers. Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media. 143, pp. 167 - 204. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4
DOI: https://doi.org/10.1007/978-3-030-84300-7_5
Type of production: Book chapter **Format:** Book



Degree of contribution: Author or co-author of chapter in book
Corresponding author: Yes

- 73** Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. The Transfer Matrix Method in Acoustics. Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media. 143, pp. 103 - 164. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4

DOI: https://doi.org/10.1007/978-3-030-84300-7_4

Type of production: Book chapter

Format: Book

Degree of contribution: Author or co-author of chapter in book

Corresponding author: Yes

- 74** Jean-Philippe Groby; Noé Jiménez; Vicent Romero-García. Acoustic metamaterial absorbers. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. pp. 15 - 42. Elsevier, 01/09/2019.

Type of production: Book chapter

Format: Book

Position of signature: 2

Degree of contribution: Author or co-author of chapter in book

- 75** Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. The transfer matrix method in acoustics Modelling one-dimensional acoustic systems, phononic crystals and acoustic metamaterials. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. pp. 107 - 161. Elsevier, 01/09/2019.

Type of production: Book chapter

Format: Book

Position of signature: 2

Degree of contribution: Author or co-author of chapter in book

Corresponding author: Yes

- 76** Vicente Romero-García; Noé Jiménez; Jean Philippe-Groby. Slow Sound and Critical Coupling to Design Deep Subwavelength Acoustic Metamaterials for Perfect Absorption and Efficient Diffusion. Fundamentals and Applications of Acoustic Metamaterials: From Seismic to Radio Frequency. 1, pp. 47 - 72. Wiley Online Library, 06/08/2019. ISBN 978-1-78630-336-3

DOI: <https://doi.org/10.1002/9781119649182.ch3>

Type of production: Book chapter

Format: Book

- 77** A. Mehrem; L. Salmerón-Contreras; N. Jiménez; V.J. Sánchez-Morcillo; R. Picó; L.M. García-Raffi; J. F. R. Archilla; Y. A. Kosevich. Kinks in a lattice of repelling particles. Experimental study with a chain of coupled pendulums. Nonlinear Systems, Vol. 2. Nonlinear Phenomena in Biology, Optics and Condensed Matter. pp. 261 - 282. Springer, 22/12/2017. ISBN 978-3-319-72217-7

DOI: https://doi.org/10.1007/978-3-319-72218-4_11

Type of production: Book chapter

Format: Book

Corresponding author: No

- 78** Juan Francisco Rodriguez Archilla; Yuriy A. Kosevich; Noé Jiménez González; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. A supersonic crowdion in mica: ultradiscrete kinks with energy between 40K recoil and transmission sputtering. Quodons in Mica: Nonlinear Localized Travelling Excitations in Crystals. 221, pp. 69 - 99. Springer Series in Materials Science, 14/09/2015. ISBN 978-3-319-21044-5

DOI: 10.1007/978-3-319-21045-2

Type of production: Book chapter

Format: Book

- 79** Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos; Ayache Bouakaz; Jennifer Chaline. Spatio-temporal dynamics in a ring of coupled pedula: analogy with bubbles. Localized Excitations in Nonlinear Complex Systems. 13, pp. 251 - 262. Springer, 21/10/2013. ISBN 978-3-319-02056-3

DOI: 10.1007/978-3-319-02057-0_13

Type of production: Book chapter

Format: Book



- 80** Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Juan F.R. Archilla; Yuri Kosevich .; Luis Miguel García Raffi. Supersonic links in coulomb lattices. Localized Excitations in Nonlinear Complex Systems. 16, pp. 317 - 331. Springer, 21/10/2013. ISBN 978-3-319-02056-3
DOI: 10.1007/978-3-319-02057-0_16
Type of production: Book chapter **Format:** Book
- 81** Noé Jiménez; Olga Umnova; Jean-Philippe Groby. Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media. 143, pp. 1 - 474. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4
DOI: <https://doi.org/10.1007/978-3-030-84300-7>
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
Corresponding author: Yes
- 82** Olga Umnova; Jean-Philippe Groby; Noé Jiménez. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. Elsevier, 01/09/2019.
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
Corresponding author: Yes
- 83** Juan Francisco Rodriguez Archilla; Noé Jiménez González; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. Quodons in Mica: Nonlinear Localized Travelling Excitations in Crystals. 221, pp. 1 - 592. Springer Series in Materials Science, 14/09/2015. ISBN 978-3-319-21044-5
DOI: 10.1007/978-3-319-21045-2
Type of production: Scientific book or monograph **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Acoustic vortices and phase gradient techniques for ultrasound elastography
Name of the conference: ITEC 2024: 18th International Tissue Elasticity Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Lyon, France
Date of event: 21/10/2024
End date: 23/10/2024
Organising entity: INSERM, LabTAU. Institute of Cancer Research **Type of entity:** State agency
E González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 18 - 18.
- 2** **Title of the work:** Accurate synthesis of acoustic holograms using field matching
Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Taipei, Taiwan
Date of event: 22/09/2024
End date: 26/09/2024
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
N Jiménez; D Andrés; A Eroles-Simó; V Vegas-Luque; R Calpe-Fortea; JJ Rodríguez-García; F Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1



- 3** **Title of the work:** Enhanced Real-Time Ultrasound Elastography with Phase Gradient
Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Taipei, Taiwan
Date of event: 22/09/2024
End date: 26/09/2024
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
E M. González-Mateo; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1
- 4** **Title of the work:** Shear-Wave Pulse-Compression Elastography Using a Modulated Acoustic Radiation Force Excitation
Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Taipei, Taiwan
Date of event: 22/09/2024
End date: 26/09/2024
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
E M. González-Mateo; J Rodríguez-Sendra; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1
- 5** **Title of the work:** It's a match! Tutorial práctico para la creación de capas de adaptación para transductores terapéuticos
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups
JJ Rodríguez-García; J Rodríguez-Sendra; JL Alonso-Ramos; N Jiménez; A Cebrecos; N Jiménez; F Camarena. "Conference proceedings". pp. 625 - 636. ISBN 978-989-53387-1-9
- 6** **Title of the work:** Optimización del posicionamiento de transductores de ultrasonidos sobre la ventana del hueso temporal
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups
A Eroles-Simó; D Andrés; A Carrión; JJ Rodríguez-García; JL Alonso-Ramos; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 614 - 624. ISBN 978-989-53387-1-9
- 7** **Title of the work:** Single-detector photoacoustic tomography
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups



I Pi-Martín; A Cebrecos; JJ García-Garrigós; Jiménez. "Conference proceedings". pp. 637 - 645. ISBN 978-989-53387-1-9

- 8 Title of the work:** Vórtices acústicos para medir la elasticidad de tejidos biológicos
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica **Type of entity:** Associations and Groups
E M. González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 656 - 660. ISBN 978-989-53387-1-9

- 9 Title of the work:** Design strategies for amplitude and phase acoustic holograms in biomedical ultrasound
Name of the conference: 18th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2023)
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Chania, Greece
Date of event: 09/09/2024
End date: 14/09/2024
Organising entity: Metamorphose IV **Type of entity:** Associations and Groups
N Jiménez; D Andrés; A Eroles-Simó; V Vegas-Luque; A Carrión; Vicente Romero-García; JL Alonso-Ramos; JJ Rodríguez-García; F Camarena. "Conference proceedings, Metamorphose ABLs, IEEE". IEEE, ISBN 979-8-3503-7349-3
DOI: 10.1109/Metamaterials62190.2024.10703234

- 10 Title of the work:** Acoustic and Optic drills by dynamic high-order Bessel beam mixing
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - invited / keynote talk
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Associations and Groups
K Staliunas; G Kontenis; N Jiménez. "Conference Proceedings". pp. 753 - 754. ISSN 2429-1390

- 11 Title of the work:** Design strategies for amplitude and phase acoustic holograms in biomedical ultrasound
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Associations and Groups
N Jiménez; D Andrés; A Eroles-Simó; A Carrión; F Camarena. "Conference Proceedings". pp. 698 - 699. ISSN 2429-1390



- 12** **Title of the work:** Diffusive Acoustic Metasurfaces for Single-element Photoacoustic Imaging
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - oral communication
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron
Type of entity: Associations and Groups
A Cebrecos; I Pi-Martín; R Weeteling; JJ García-Garrigós; N Jiménez. "Conference Proceedings". pp. 734 - 735. ISSN 2429-1390
- 13** **Title of the work:** Ultrasonic Hologram for Bi-directional Diffusion by Phase Controlling the Scattering Coefficients
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - oral communication
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron
Type of entity: Associations and Groups
E Ballesterio; J Rodriguez-Sendra; J-P Groby; N Jiménez; V Romero-García. "Conference Proceedings". pp. 723 - 724. ISSN 2429-1390
- 14** **Title of the work:** Hologramas para focalizar ondas acústicas en el cerebro: de la cirugía a la administración de fármacos y neuromodulación
Name of the conference: 2 Ciclo de Conferencias FIA
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Online,
Date of event: 18/05/2024
End date: 18/05/2024
Organising entity: Federación Iberoamericana de Acústica
Type of entity: Associations and Groups
- 15** **Title of the work:** De la morfología a la función: técnicas avanzadas de imagen por ultrasonidos
Name of the conference: ISABE 2023: International Symposium on Acoustics in Biomedical Engineering
Type of participation: Participatory - Plenary session
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
N Jiménez. "Conference proceedings". pp. 896 - 899. ISBN 978-84-87985-33-1
- 16** **Title of the work:** Imagen fotoacústica empleando nanopartículas de redes orgánicas covalentes (nCOFs) como agente de contraste
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023

Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
F Camarena; I Pi-Martín; CM Agut; A Cebrecos; JJ García-Garrigós; N Jiménez; F Camarena; P Botella-Asunción. "Conference proceedings". pp. 917 - 920. ISBN 978-84-87985-33-1

- 17** **Title of the work:** Improving SNR and Bandwidth of Shear-Wave Displacements via Modulated Force Excitation
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
EM González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 896 - 899. ISBN 978-84-87985-33-1
- 18** **Title of the work:** Reflectores helicoidales para la focalización de vórtices acústicos de alta intensidad
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Jiménez; EM González-Mateo; F Camarena. "Conference proceedings". pp. 921 - 926. ISBN 978-84-87985-33-1
- 19** **Title of the work:** Bi-directional holographic lens for simultaneous control of reflected and transmitted ultrasonic fields
Name of the conference: Forum Acusticum 2023: 10th Convention of the European Acoustics Association
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Torino, Italy
Date of event: 11/09/2023
End date: 15/09/2023
Organising entity: European Acoustics Association **Type of entity:** Associations and Groups
E Ballesterio; J Rodríguez-Sendra; J-P Groby; V Romero-García; N Jiménez; G Ter Haar. "Proceeding of the Forum Acusticum 2023 1 (1)". pp. 5171 - 5175. ISBN 978-88-88942-67-4
DOI: 10.61782/fa.2023.0884
- 20** **Title of the work:** Acoustic holograms for homogeneous hyperthermia over several tumor spheroids
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
D Andrés; I Rivens; P Mouratidis; N Jiménez; F Camarena; G Ter Haar. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307873



- 21 Title of the work:** Fast Shear wavevector Estimator for real-Time Elasticity Map Reconstruction
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
E M. González-Mateo; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724
- 22 Title of the work:** Generating Focused Vortex Beams Using Chiral Reflectors
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
N Jiménez; P Femenia-Ys; EM González-Mateo; F Camarena; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724
- 23 Title of the work:** Overestimation of the Spatial Resolution of Advanced Algorithms Using the PSF Method on PAT Systems
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
Irene Pi-Martin; Alejandro Cebrecos; J.J. García-Garrigós; Noé Jiménez; José M. Benlloch; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724
- 24 Title of the work:** Spinning optical drills by dynamic high-order Bessel beam mixing
Name of the conference: SPIE Optics and Optoelectronics. Holography: Advances and Modern Trends VIII
City of event: Prague, Czech Republic
Date of event: 31/05/2023
End date: 31/05/2023
Organising entity: Society of Photo-Optical Instrumentation Engineers (SPIE)
Gabrielius Kontenis; AA Padilla-Camargo; Darius Gailevičius; Noe Jimenez; Kęstutis Staliūnas. "Proc. SPIE 12574, pp. 1257407, SPIE Photonics Europe". ISBN 9781510662681
DOI: 10.1117/12.2665568
- 25 Title of the work:** Acoustic drill beams: twisting wave intensity by the superposition of detuned vortices
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain



Date of event: 02/11/2022

End date: 04/11/2022

Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Jiménez; EM González-Mateo; F Camarena; K Staliunas. "Conference proceedings". pp. 1141 - 1144.
ISBN 978-84-87985-32-4

- 26** **Title of the work:** Análisis y evaluación de algoritmos de reconstrucción avanzados en un sistema experimental de tomografía fotoacústica
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
I Pi-Martín; A Cebrecos; JJ García-Garrigós; N Jiménez; Francisco Camarena. "Conference proceedings". pp. 1169 - 1176. ISBN 978-84-87985-32-4

- 27** **Title of the work:** Elastografía empleando una técnica híbrida magneto-ultrasónica
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
G Ruiz-Fermoso; A Cebrecos; EM González-Mateo; F Camarena. "Conference proceedings". pp. 1145 - 1150. ISBN 978-84-87985-32-4

- 28** **Title of the work:** Ex-vivo validation of a passive cavitation detection system for hologram-assisted blood-brain barrier opening in non-human primate
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Lamothe; D Andrés; A Carrión; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 1164 - 1168. ISBN 978-84-87985-32-4

- 29** **Title of the work:** Hologramas acústicos para la administración localizada de fármacos en el cerebro: Validación ex-vivo en primates
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
D Andrés; A Carrión; N Lamothe; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 1157 - 1163. ISBN 978-84-87985-32-4

- 30** **Title of the work:** Mapeado de la elasticidad de tejidos mediante un método rápido basado en gradiente de fase
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
EM González-Mateo; N Jiménez; F Camarena. "Conference proceedings". pp. 1127 - 1132. ISBN 978-84-87985-32-4
- 31** **Title of the work:** Singular value decomposition beamforming and pulse-coded excitation for lung ultrasound aberration correction
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
J Rodríguez-Sendra; Enrique M González-Mateo; Noé Jiménez; Francisco Camarena. "Conference proceedings". pp. 1151 - 1156. ISBN 978-84-87985-32-4
- 32** **Title of the work:** Técnicas de holografía acústica para la validación rápida de hologramas acústicos
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Jiménez; A Carrión; D Andrés; E.M González-Mateo; C Hernández-López; F Camarena; F Camarena. "Conference proceedings". pp. 924 - 929. ISBN 978-84-87985-32-4
- 33** **Title of the work:** Engineering holographic metasurfaces for biomedical ultrasound applications
Name of the conference: SAM 2022: 3rd Symposium on Acoustic Metamaterials
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Venice, Italy
Date of event: 19/10/2022
End date: 21/10/2022
Organising entity: Young Researchers in Acoustic **Type of entity:** Associations and Groups
Metamaterials
City organizing entity: Nimes, France
Noé Jiménez. pp. 1 - 4.
- 34** **Title of the work:** Design and Holographic Field Reconstruction of Ultrasonic Lenses for Drug Delivery in non-Human Primates
Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication



City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Diana Andrés; Alicia Carrión; Nathalie Lamothe; José A. Pineda-Pardo; Noé Jiménez; Francisco Camarena.

pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957745

- 35 Title of the work:** Evaluation of lateral and axial resolution of pixel-based beamformers in photoacoustic tomography using a linear US probe

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Irene Pi-Martin; Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. pp. 1 - 4.

ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9958843

- 36 Title of the work:** Laser Diode Beam Shaping and Homogenization with a Multimode Fiber applied to Optical Resolution Photoacoustic Microscopy based on Linear Phased Array Ultrasound Probe

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Juan J. García-Garrigós; Alejandro Cebrecos; Javier A. Navarro-Calvo; Noé Jiménez; José M. Benlloch;

Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957264

- 37 Title of the work:** Quasi-omnidirectional shear wave generation using acoustic vortices for elastography

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Enrique M. González-Mateo; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957369

- 38 Title of the work:** Rotating acoustic drills by the interference of detuned vortices

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022



End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Noé Jiménez; Enrique M. González-Mateo; Francisco Camarena; Kestutis Staliunas. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957960

- 39** **Title of the work:** Lung ultrasound aberration correction with singular value decomposition beamforming and pulse-coded excitation
Name of the conference: II Jornadas Científicas PTI + Salud Global
City of event: Valencia, Spain
Date of event: 05/10/2022
End date: 06/10/2022
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Josep Rodríguez-Sendra; Noé Jiménez. "Conference Proceedings".
- 40** **Title of the work:** Acoustic holograms for low-intensity ultrasound neuromodulation in non-human primates
Name of the conference: FUN 2022: Focused Ultrasound Neuromodulation
City of event: Mainz, Germany
Date of event: 26/09/2022
End date: 28/09/2022
Organising entity: International Transcranial Ultrasonic Stimulation Safety and Standards, ITRUSS
Diana Andrés; Alicia Carrión; Nathalie Lamothe; Jose A. Pineda-Pardo; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 41** **Title of the work:** An in vitro system for focused ultrasound hyperthermia (and radiotherapy) studies using spheroids
Name of the conference: 34th Annual Meeting European Society for Hyperthermic Oncology (ESHO2022)
City of event: Gothenburg, Sweden
Date of event: 14/09/2022
End date: 17/09/2022
Organising entity: European Society for Hyperthermic Oncology
Ian Rivens; Petros Mouratidis; Diana Andres; Richard Symonds-Tayler; Noé Jiménez; Francisco Camarena; Gail ter Haar. "Conference Proceedings".
- 42** **Title of the work:** RLC modelling of sound scattering metamaterials in large 3D FDTD volumes
Name of the conference: 51st International Congress and Exposition on Noise Control Engineering (INTERNOISE 2022)
City of event: Glasgow, United Kingdom
Date of event: 21/08/2022
End date: 24/08/2022
Organising entity: International Institute of Noise Control Engineering
Eric Ballesterio; Brian Hamilton; Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby; Haydar Aygun; Steven Dance. "Conference Proceedings".
- 43** **Title of the work:** Acoustic drills by dynamic high-order Bessel beam mixing
Name of the conference: 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2022)
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Torremolinos, Spain



Date of event: 19/07/2022

End date: 22/07/2022

Organising entity: Hospital Universitario Vall d'Hebron

Type of entity: Associations and Groups

Kestutis Staliunas; Gabrielius Kontenis; Noe Jimenez. "Conference Proceedings".

- 44 Title of the work:** Sculpting thermal and acoustic fields by 3D-printed holograms
Name of the conference: 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2022)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Torremolinos, Spain

Date of event: 19/07/2022

End date: 22/07/2022

Organising entity: Hospital Universitario Vall d'Hebron

Type of entity: Associations and Groups

Noe Jimenez; Diana Andres; Sergio Jimenez-Gambin; Antonios Pouliopoulos; Elisa E. Konofagou; Jonathan Vappou; Jose M. Benlloch; Alicia Garcia-Carrion; Francisco Camarena. "Conference Proceedings".

- 45 Title of the work:** 3D-printed acoustic holograms to generate thermal holographic patterns
Name of the conference: 22nd International Symposium on Nonlinear Acoustics

Type of participation: Participatory - oral communication

City of event: Oxford, United Kingdom

Date of event: 04/07/2022

End date: 08/07/2022

Organising entity: University of Oxford

Type of entity: University

D. Andrés; J. Vappou; N. Jiménez; F. Camarena. "Conference Proceedings".

- 46 Title of the work:** A helicoidal parametric antenna for subwavelength vortex generation
Name of the conference: 22nd International Symposium on Nonlinear Acoustics

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Oxford, United Kingdom

Date of event: 04/07/2022

End date: 08/07/2022

Organising entity: University of Oxford

Type of entity: University

Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicent Romero-García. "Conference Proceedings".

- 47 Title of the work:** Evaluation of lateral and axial resolution in photoacoustic tomography with linear US probe and pixel-based beamformers

Name of the conference: XXXVIII Reunión Bienal de la Real Sociedad Española de Física

Type of participation: Participatory - oral communication

City of event: Murcia, Spain

Date of event: 11/06/2022

End date: 15/06/2022

Organising entity: Real Sociedad Española de Física

Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. "Conference Proceedings".



- 48** **Title of the work:** Thermal patterns generated by ultrasound holograms
Name of the conference: XXXVIII Reunión Bienal de la Real Sociedad Española de Física
Type of participation: Participatory - oral communication
City of event: Murcia, Spain
Date of event: 11/06/2022
End date: 15/06/2022
Organising entity: Real Sociedad Española de Física
Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 49** **Title of the work:** A low-intensity ultrasound delivery system using acoustic holograms
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Diana Andrés; Alicia Carrión; Nathalie Lamothe; José Pineda; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 50** **Title of the work:** Acoustic holograms for bilateral blood-brain barrier opening in mice
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - oral communication
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Sergio Jimenez-Gambin; Antonios N. Pouliopoulos; Noe Jimenez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference Proceedings".
- 51** **Title of the work:** An exposure system for in-vitro 3D tumour HIFU studies
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - oral communication
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Ian Rivens; Petros Mouratidis; Diana Andres; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 52** **Title of the work:** Reflectors for therapeutic vortex beam generation
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Noé Jiménez. "Conference Proceedings".

- 53** **Title of the work:** Synthesizing acoustic drill beams by the superposition of detuned vortices
Name of the conference: 182nd Meeting of the Acoustical Society of America
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Denver, United States of America
Date of event: 23/05/2022
End date: 27/05/2022
Organising entity: Acoustical Society of America
Noé Jiménez; Enrique González-Mateo; Francisco Camarena; Kestutis Staliunas. "Journal of the Acoustical Society of America". 151 - 4, pp. A121. Acoustical Society of America, ISSN 0001-4966
DOI: 10.1121/10.0010842
- 54** **Title of the work:** Shaping therapeutical acoustic images using acoustic holograms
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Type of participation: Participatory - invited / keynote talk
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Noé Jiménez; Diana Andrés; Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; José M. Benlloch; Jonathan Vappou; Elisa E. Konofagou; A. Carrión-García; F. Camarena.
- 55** **Title of the work:** Thermal patterns generated by acoustic holographic lenses
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena.
- 56** **Title of the work:** Tortuous metamaterial for perfect sound absorption in transmission
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Enrique González-Mateo; Rodolfo Venegas; Francisco Camarena; Noé Jiménez.
- 57** **Title of the work:** Dynamic higher-order Bessel-Gauss beam interference generation of rotating beams
Name of the conference: SPIE Photonics Europe conference on Nanophotonics IX
City of event: Strasbourg, France
Date of event: 03/04/2022
End date: 07/04/2022
Organising entity: Society of Photo-Optical Instrumentation Engineers



Gabrielius Kontenis; Darius Gailevičius; Noe Jimenez; Kęstutis Staliūnas. "Proc. SPIE 12131, Nanophotonics IX, 121310F". ISBN 9781510651388
DOI: 10.1117/12.2621652

58 Title of the work: Research into non invasive brain surgery

Name of the conference: Hear for Tomorrow

Type of participation: Participatory - invited / keynote talk

Corresponding author: Yes

City of event: London, United Kingdom

Date of event: 30/03/2022

End date: 30/03/2022

Organising entity: Hearing Conservation Association, Institute of Acoustics
Noé Jiménez. "Conference Proceedings".

59 Title of the work: Application of metamaterials to control noise scattering during space vehicle lift-off

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Mara Salut Escartí-Guillem; Pablo Barriuso Feijoo; Alejandro Cebrecos; Marcos Chimeno-Manguán; Pedro Cobo; Luis Miguel García-Raffi; Jean-Philippe Groby; Sergio Hoyas; Noé Jiménez; Mario Lázaro; Julien Leng; José Nieto Mocholí; Rubén Picó; José Manuel Requena-Plens; Elena Riobás; Vicente Romero-García; Víctor José Sánchez-Morcillo; Francisco Simon. pp. 1287 - 1296. ISBN 978-989-53387-0-2

60 Title of the work: From Quasi-Perfect to Broadband Sound Diffusion Using Metadiffusers

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Eric Ballester; Noé Jiménez; Jean Philippe-Groby; Haydar Aygün; Stephen Dance; Vicente Romero-García. pp. 1307 - 1311. ISBN 978-989-53387-0-2

61 Title of the work: Natural sonic crystal absorber constituted of Aegagropilae fiber network

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Luis Miguel García-Raffi; Víctor José Sánchez-Morcillo; Jean-Philippe Groby. pp. 1430 - 1432. ISBN 978-989-53387-0-2

- 62 Title of the work:** Parametric generation of subwavelength acoustic vortices
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicente Romero-García. pp. 316 - 320. ISBN 978-989-53387-0-2
- 63 Title of the work:** Perfect acoustic absorption in reciprocal ventilated problems
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Vicente Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Philippe Groby. pp. 1463 - 1469. ISBN 978-989-53387-0-2
- 64 Title of the work:** Perfect broadband sound absorber metamaterial for noise reduction in a rocket launch
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
José Manuel Requena-Plens; Rubén Picó; Víctor José Sánchez-Morcillo; Noé Jiménez; Alejandro Cebrecos; Mara Salut Escartí-Guillem. pp. 1392 - 1400. ISBN 978-989-53387-0-2
- 65 Title of the work:** Performance evaluation of image reconstruction algorithms for photoacoustic tomography
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Irene Pi Martín; Juan José García-Garrigos; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. pp. 901 - 910. ISBN 978-989-53387-0-2
- 66 Title of the work:** Sharp and nonlinear cavitation mapping using synchronized sine-sweep imaging
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal



Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Enrique González-Mateo; Nathalie Lamothe; Noé Jiménez; Francisco Camarena. pp. 921 - 924. ISBN 978-989-53387-0-2

- 67** **Title of the work:** Sound diffusing metasurfaces based on elastic plates and membranes
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
José Manuel Requena-Plens; Jean Philippe-Groby; Vicente Romero-García; Noé Jiménez. pp. 1279 - 1286. ISBN 978-989-53387-0-2
- 68** **Title of the work:** Therapeutic ultrasound holograms to target thalamic nuclei through the temporal bone window.
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Diana Andrés-Bautista; Irene Pi Martín; Noé Jiménez; Francisco Camarena. pp. 888 - 893. ISBN 978-989-53387-0-2
- 69** **Title of the work:** Twisting acoustic reflections by spiral sound diffusers
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. pp. 1271 - 1274. ISBN 978-989-53387-0-2
- 70** **Title of the work:** Ultrasonic holograms to enhance hyperthermia volumes
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 894 - 900. ISBN 978-989-53387-0-2

- 71** **Title of the work:** Hologramas ultrasónicos para tratamientos neurológicos
Name of the conference: X Reunión del Capítulo Nacional Español de la Sociedad Europea de Biomecánica
Type of participation: Participatory - oral communication
Reasons for participation: Upon invitation
City of event: Granada, Spain
Date of event: 26/10/2021
Organising entity: European Society of Biomechanics
Type of entity: Associations and Groups
Diana Andrés-Bautista; Sergio Jiménez-Gambín; Noe Jimenez; Francisco Camarena.
- 72** **Title of the work:** Monitorización ultrasónica de la desmineralización de la dentina
Name of the conference: X Reunión del Capítulo Nacional Español de la Sociedad Europea de Biomecánica
Type of participation: Participatory - oral communication
Reasons for participation: Upon invitation
City of event: Granada, Spain
Date of event: 26/10/2021
Organising entity: European Society of Biomechanics
Type of entity: Associations and Groups
Josep Rodríguez-Sendra; Alicia Carrión-García; Noe Jimenez; Joan Faus; Francisco Camarena.
- 73** **Title of the work:** Acoustic holograms for biomedical ultrasound applications
Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Online, United States of America
Date of event: 25/09/2021
Organising entity: Metamorphose IV
Type of entity: Associations and Groups
Sergio Jiménez-Gambín; Diana Andrés-Bautista; Noé Jiménez; Jose María Benlloch; Francisco Camarena; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5
- 74** **Title of the work:** Deep sub-wavelength vortices by nonlinear mixing
Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 25/09/2021
Organising entity: Metamorphose IV
Type of entity: Associations and Groups
Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Jean-Pilippe Groby; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5
- 75** **Title of the work:** Natural sonic crystal absorber constituted of Aegagropilae fiber network
Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)
Type of participation: Participatory - oral communication
Reasons for participation: Upon invitation
City of event: Online, United States of America
Date of event: 25/09/2021
Organising entity: Metamorphose IV
Type of entity: Associations and Groups



Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Luis Miguel García-Raffi; Víctor José Sánchez-Morcillo; Jean-Pilippe Groby. IEEE, ISBN 978-1-7281-5018-5

- 76** **Title of the work:** Sound diffusion by spiral acoustic metasurfaces based on holographic vortices
Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Online, United States of America
Date of event: 25/09/2021
Organising entity: Metamorphose IV
Type of entity: Associations and Groups
Noé Jiménez; Jean-Pilippe Groby; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5
- 77** **Title of the work:** Acoustic holograms for low-cost biomedical ultrasound applications
Name of the conference: Interdisciplinary Symposium Micro, Nano, and Molecular Systems 2021
Type of participation: Participatory - invited / keynote talk
Reasons for participation: Upon invitation
City of event: Schloss Ringberg, Germany
Date of event: 18/09/2021
Organising entity: Max Planck Institute
Noé Jiménez. pp. 2 - 2.
- 78** **Title of the work:** Modeling of Intensity-Modulated Focused Ultrasound in Pediatric Brain Tumors Using Acoustic Holograms
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Zachary Englander; Noé Jiménez; Francisco Camarena; Elisa Konofagou; Stergios Zacharoulis; Cheng-Chia Wu. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 79** **Title of the work:** Sub-Diffractive Acoustic Vortices by Nonlinear Mixing
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicente Romero-García. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 80** **Title of the work:** Synchronized Sine-Sweep Imaging for Uncoupling Nonlinear Signatures During Pulse Compression
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Online, China



Date of event: 16/09/2021

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Nathalie Lamothe; Enrique González-Mateo; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1

DOI: 978-0-7381-1209-1/21/

81 Title of the work: Transtemporal Ultrasound Holograms for Thalamic Therapy
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)

City of event: Online, China

Date of event: 16/09/2021

Organising entity: Institute of Electrical and Electronics Engineers

Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1

DOI: 978-0-7381-1209-1/21/

82 Title of the work: Ultrasonic Holograms to Enhance Hyperthermia Volumes
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)

City of event: Online, China

Date of event: 16/09/2021

Organising entity: Institute of Electrical and Electronics Engineers

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1

DOI: 978-0-7381-1209-1/21/

83 Title of the work: Ultrasonic Monitoring of the Dentin Demineralization Dynamics
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)

City of event: Online, China

Date of event: 16/09/2021

Organising entity: Institute of Electrical and Electronics Engineers

Josep Rodríguez-Sendra; Alicia Carrión-García; Inés Torres; Noé Jiménez; Salvatore Sauro; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1

84 Title of the work: Ultrasound holograms to enhance deep-brain neuromodulation

Name of the conference: 2nd FUN Symposium

Type of participation: Participatory - oral communication

City of event: Online, United States of America

Date of event: 10/09/2021

End date: 10/09/2021

Organising entity: ITRUSST

Type of entity: Associations and Groups

Diana Andrés-Bautista; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena; Jose María Benlloch. pp. 75 - 75.

85 Title of the work: Monitorización ultrasónica de la dinámica de desmineralización de la dentina con ácido fosfórico

Name of the conference: XLIX Reunión Anual del Centro de Estudios Odontoestomatológicos de Valencia

Type of participation: Participatory - oral communication

City of event: Gandía, Spain

Date of event: 02/07/2021

End date: 02/07/2021

Organising entity: Centro de Estudios Odontoestomatológicos de Valencia

Type of entity: Associations and Groups



Josep Rodríguez-Sendra; Alicia Carrión-García; Inés Torres; Noé Jiménez; Salvatore Sauro; Joan Faus; Francisco Camarena. pp. 71 - 71.

- 86** **Title of the work:** Advanced control of sound reflections: from twisting to holograms and subwavelength resonances
Name of the conference: II Simposio de Acústica Arquitectónica (SAA 2021)
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes
Date of event: 24/06/2021
Organising entity: Universidad Austral de Chile **Type of entity:** University
City organizing entity: Online, Chile
Noé Jiménez. "Conference Proceedings".
- 87** **Title of the work:** Acoustic holograms for thalamic focusing through the temporal-bone window
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 118 - 118. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004703>
- 88** **Title of the work:** Broad depth-of-field Bessel beams using acoustic holograms
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Sergio Jiménez-Gambín; Diana Andrés-Bautista; Noé Jiménez; Jose María Benlloch; Francisco Camarena. pp. 18 - 18. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004392>
- 89** **Title of the work:** Rapid Prototyping for Focused Ultrasound Sources
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Adam Maxwell; Timothy J. Hall; Thomas Gilles; Jeremy Brown; Kyle Morrison; Noé Jiménez; Sandy Cochran. pp. 137 - 137. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004391>
- 90** **Title of the work:** Reconstruction of arrays of acoustic vortices using holograms for multiple particle trapping
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
Corresponding author: Yes



City of event: Online, United States of America

Date of event: 10/06/2021

End date: 12/06/2021

Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups

Noé Jiménez; Gabriela Sánchez-Rodríguez; Sergio Jiménez-Gambín; Diana Andrés-Bautista; Francisco Camarena. pp. 18 - 18. ISSN 1939-800X

DOI: <https://doi.org/10.1121/10.0004391>

91 Title of the work: Acoustic Holograms for Large-Volume Hyperthermia

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 118 - 118.

92 Title of the work: Focusing Ultrasonic Vortices across the Human Skull by Acoustic Holograms

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Noé Jiménez; Sergio Jiménez-Gambín; Jose María Benlloch; Francisco Camarena. pp. 202 - 202.

93 Title of the work: Holographic lenses to enhance thalamic therapy through the temporal bone window

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 201 - 201.

94 Title of the work: Modeling Of Acoustic Holograms For Intensity-Modulated Ultrasound In Pediatric Brain Tumors

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Zachary K. Englander; Noe Jimenez; Francisco Camarena; Elisa Konofagou; Stergios Zacharoulis; Cheng-Chia Wu. pp. 203 - 204.

95 Title of the work: Biomedical ultrasound applications of acoustics holograms

Name of the conference: Panoramic Half-Day on Acoustic Materials

Type of participation: Participatory - Plenary
session

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Paris, France



Date of event: 10/05/2021

End date: 10/05/2021

Organising entity: Technical Committee on Acoustic Materials, European Acoustics Association
Noé Jiménez. "Conference proceedings".

- 96** **Title of the work:** Acoustic holograms for biomedical ultrasound applications
Name of the conference: Seminars of the Acoustics Research Centre
Type of participation: Participatory - Plenary session
Reasons for participation: Upon invitation
Corresponding author: No
City of event: Salford, United Kingdom
Date of event: 21/04/2021
End date: 21/04/2021
Organising entity: University of Salford
Noé Jiménez. "Conference proceedings".
- 97** **Title of the work:** Natural sonic crystal absorber constituted of Aegagropilae fibernetwork
Name of the conference: 6th Symposium on the Acoustics of Poro-Elastic Materials
Corresponding author: No
City of event: West Lafayette, United States of America
Date of event: 02/04/2021
End date: 02/04/2021
Organising entity: Purdue University
L Barguet; V Romero-García; N Jiménez; LM García-Raffi; V Sánchez-Morcillo; J Groby. "Conference Proceedings". pp. 1 - 2.
- 98** **Title of the work:** Launch sound level characterisation and mitigation: numerical modelling framework and metamaterial proof of concept.
Name of the conference: 16th European Conference on Spacecraft structures, Materials & Environmental Testing (ECSSMET 2021)
Corresponding author: No
City of event: Online,
Date of event: 23/03/2021
End date: 25/03/2021
Organising entity: AGENCE SPATIALE EUROPEENE ESA - ESAC
Mara S. Escartí-Guillem; José Manuel Requena-Plens; Pablo Barriuso Feijoo; Alejandro Cebrecos; Marcos Chimeno-Manguán; Pedro Cobo-Parra; Luis Miguel García-Raffi; Jean-Philippe Groby; Sergio Hoyas; Noé Jiménez; Mario Lázaro; Julien Leng; José Nieto Mocholí; Elena Roibás Millán; Vicent Romero-García; Rubén Picó; Víctor Sánchez-Morcillo; Francisco Simon; Ivan C.S. Ngan. pp. 1 - 12.
- 99** **Title of the work:** Hologramas acústicos bilaterales para terapia transcraneal
Name of the conference: III Jornadas RSEF / IFIMED de Física Médica
Corresponding author: No
City of event: Valencia, Spain
Date of event: 05/12/2020
End date: 15/12/2020
Organising entity: Real Sociedad Española de Física
Diana Andrés; D Miguez; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings".



- 100 Title of the work:** Bilateral blood-brain barrier opening in mice using acoustic holograms
Name of the conference: 7th International Symposium on Focused Ultrasound
Corresponding author: No
City of event: Charlottesville, Virginia, United States of America
Date of event: 09/11/2020
End date: 13/11/2020
Organising entity: Focused Ultrasound Foundation
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0
- 101 Title of the work:** Conformation of ultrasonic vortex beams through the skull using acoustic holograms for particle trapping
Name of the conference: 7th International Symposium on Focused Ultrasound
Corresponding author: Yes
City of event: Charlottesville, Virginia, United States of America
Date of event: 09/11/2020
End date: 13/11/2020
Organising entity: Focused Ultrasound Foundation
Noé Jiménez; Sergio Jiménez-Gambín; Diana Andrés; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0
- 102 Title of the work:** Experimental evidences of perfect acoustic absorption in deep sub-wavelength structures in ventilation problems
Name of the conference: 9th Forum Acusticum
Corresponding author: No
City of event: Lyon, France
Date of event: 09/11/2020
End date: 11/11/2020
Organising entity: European Acoustics Association
V. Romero-García; N. Jiménez; O. Richoux; G. Theocharis; J.-P. Groby; V. Pagneux. "Book of abstracts". ISBN 978-1-7281-5448-0
- 103 Title of the work:** Natural sonic crystal constituted of Aegagropilae fiber network
Name of the conference: 9th Forum Acusticum
Corresponding author: No
City of event: Lyon, France
Date of event: 09/11/2020
End date: 11/11/2020
Organising entity: European Acoustics Association
J.-P. Groby; L. Barguet; V. Romero-García; N. Jiménez; L.M. García-Raffi; V.J. Sánchez-Morcillo. "Book of abstracts". ISBN 978-1-7281-5448-0
- 104 Title of the work:** Nonlinear interaction of vortices to generated deep sub-wavelength acoustical vortex beams
Name of the conference: 9th Forum Acusticum
Corresponding author: Yes
City of event: Lyon, France
Date of event: 09/11/2020
End date: 11/11/2020
Organising entity: European Acoustics Association
V. Romero-García; J.L. Ealo-Cuello; R. Muelas-Hurtado; A. Duclos; N. Jiménez; V. Pagneux. "Book of abstracts". ISBN 978-1-7281-5448-0



- 105 Title of the work:** Transcranial multifocal acoustic holograms
Name of the conference: 7th International Symposium on Focused Ultrasound
Corresponding author: No
City of event: Charlottesville, Virginia, United States of America
Date of event: 09/11/2020
End date: 13/11/2020
Organising entity: Focused Ultrasound Foundation
Diana Andrés; Noé Jiménez; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0
- 106 Title of the work:** A hybrid magnetic-ultrasonic technique for spectral viscoelastic characterization of soft solids
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Rafael Tarazona; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. "Conference proceedings".
- 107 Title of the work:** Acoustic field prediction during the launch of rockets
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Jose M. Requena-Plens; Noé Jiménez; Alejandro Cebrecos; Rubén Picó; Víctor J. Sánchez-Morcillo. "Conference proceedings".
- 108 Title of the work:** Arrays of vortices for particle trapping and patterning using single-beam acoustic holograms
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Gabriela Sánchez-Rodríguez; Noé Jiménez; Sergio Jiménez-Gambín; Francisco Camarena. "Conference proceedings".
- 109 Title of the work:** Beyond Schroeder diffusers using acoustic metasurfaces
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica



Noé Jiménez; Trevor J. Cox; José M. Requena-Plens; Eric Balletero; Jean-Philippe Groby; Vicente Romero-García. "Conference proceedings".

- 110 Title of the work:** Hologramas acústicos para la apertura bilateral de la barrera hematoencefálica en ratones in vivo
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings".
- 111 Title of the work:** Monitorización ultrasónica del proceso de desmineralización de la dentina
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Josep Rodríguez-Sendra; Noé Jiménez; Inés Torres; Salvatore Sauro; Francisco Camarena. "Conference proceedings".
- 112 Title of the work:** Multifocal acoustic holograms for ultrasound focusing at deep-brain structures
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings".
- 113 Title of the work:** Sistema de microscopía fotoacústica empleando conformación de haz para escaneo de grandes superficies
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Alejandro Cebrecos; uan J. García-Garrigós; Andreu Descals; Noé Jiménez; José M. Benlloch; Francisco Camarena. "Conference proceedings".
- 114 Title of the work:** Towards quantitative cavitation mapping for transcranial ultrasound holographic therapy
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes



City of event: Faro, Portugal

Date of event: 21/10/2020

End date: 23/10/2020

Organising entity: Sociedad Portuguesa de Acústica

Nathalie Lamothe; Noé Jiménez; Diego Miguez; Alejandro Cebrecos; Francisco Camarena. "Conference proceedings".

115 Title of the work: Vortices for biomedical ultrasound applications

Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica

Corresponding author: Yes

City of event: Faro, Portugal

Date of event: 21/10/2020

End date: 23/10/2020

Organising entity: Sociedad Portuguesa de Acústica

Noé Jiménez; Sergio Jiménez-Gambín; Diana Andrés; Francisco Camarena. "Conference proceedings".

116 Title of the work: Aplicaciones de los ultrasonidos en medicina

Name of the conference: Sede Universitaria de Villajoyosa

Type of event: Seminar

Type of participation: Participatory - Plenary session

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Villajoyosa, Spain

Date of event: 07/10/2020

End date: 07/10/2020

Organising entity: Universidad de Alicante

Type of entity: University

Noé Jiménez. "Book of abstracts".

117 Title of the work: A new elastographic technique using acoustic vortices

Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium

Corresponding author: Yes

City of event: Las Vegas, United States of America

Date of event: 07/09/2020

End date: 11/09/2020

Organising entity: Institute of Electrical and Electronics Engineers

Noé Jiménez; José M. Benlloch; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

118 Title of the work: Dynamic beamforming for large area scan in array-based photoacoustic microscopy

Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium

Corresponding author: No

City of event: Las Vegas, United States of America

Date of event: 07/09/2020

End date: 11/09/2020

Organising entity: Institute of Electrical and Electronics Engineers

Alejandro Cebrecos; Juan José García-Garrigos; Andreu Descals; Noé Jiménez; José María Benlloch; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

119 Title of the work: First in-vivo Demonstration of Bilateral Blood-Brain Barrier Opening Using Acoustic Holograms in Mice

Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium



Corresponding author: No

City of event: Las Vegas, United States of America

Date of event: 07/09/2020

End date: 11/09/2020

Organising entity: Institute of Electrical and Electronics Engineers

Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

120 Title of the work: Multifocal acoustic holograms for deep-brain neuromodulation and BBB opening

Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium

Corresponding author: Yes

City of event: Las Vegas, United States of America

Date of event: 07/09/2020

End date: 11/09/2020

Organising entity: Institute of Electrical and Electronics Engineers

Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

121 Title of the work: How to design thin sound diffusers for room acoustics based on metasurfaces-metadiffusers

Name of the conference: 8th DENORMS CA15125 Workshop, Action Final event

Type of event: Training Session

Type of participation: Participatory - invited / keynote talk

Corresponding author: Yes

City of event: Coimbra, Portugal

Date of event: 21/02/2020

End date: 21/02/2020

Organising entity: Universidade de Coimbra

Type of entity: University

Noé Jiménez. "Conference proceedings".

122 Title of the work: Experimental Validation of a 3D-Printed Quadratic Residue Metadiffuser

Name of the conference: SAM 2019 Symposium on Acoustic Metamaterials

Corresponding author: No

City of event: Ischia, Italy

Date of event: 09/10/2019

End date: 11/10/2019

Eric Ballester; Noé Jiménez; Jean-Philippe Groby; S Dance; H. Aygun; Vicente Romero-García. ISSN 0001-4966

123 Title of the work: Acoustic holograms allow the generation of complex fields inside the central nervous system

Name of the conference: IUS 2019 - 2019 IEEE International Ultrasonics Symposium (IUS)

Corresponding author: Yes

City of event: Glasgow, United Kingdom

Date of event: 06/10/2019

End date: 09/10/2019

Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.

124 Title of the work: Viscoelastic media characterization using magnetic force induced vibration on a ferromagnetic sphere

Name of the conference: IUS 2019 - 2019 IEEE International Ultrasonics Symposium (IUS)



Corresponding author: No

City of event: Glasgow, United Kingdom

Date of event: 06/10/2019

End date: 09/10/2019

Miguel Company; Noé Jiménez; Alejandro Cebrecos; José María Benlloch; Francisco Camarena.

- 125 Title of the work:** Deep Sub-wavelength Metamaterials for Sound Absorption for the Reflection and Ventilation Problems
Name of the conference: Metamaterials'2019 - 13th International Congress on Artificial Materials for Novel Wave Phenomena
Type of participation: Participatory - invited / keynote talk **Reasons for participation:** Upon invitation
Corresponding author: No
City of event: Rome, Italy
Date of event: 16/09/2019
End date: 21/09/2019
 Vicente Romero-García; Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux.
- 126 Title of the work:** 3D Printed Quadratic Residue Metadiffuser – Design and Measurements of an Optimized Deep-Subwavelength Sound Diffuser
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
 Eric Ballesteros; Vicente Romero García; Noé Jiménez; Jean Philippe Groby; Stephen Dance; Haydar Aygun.
- 127 Title of the work:** Perfect acoustic absorption in deep sub-wavelength structures for the ventilation problems with degenerate resonators
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
 Vicente Romero García; Noé Jiménez; Olivier Richoux; Georgios Theocharis; Jean Philippe Groby; Vincent Pagneux.
- 128 Title of the work:** Transcranial focusing of arbitrary ultrasonic fields using acoustic holograms
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
 Noé Jiménez; Sergio Jiménez-Gambín; Jose M. Benlloch; Francisco Camarena; Vincent Pagneux.



- 129 Title of the work:** Beyond phase grating diffusers using locally-resonant metamaterials
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
 keynote talk
Corresponding author: Yes
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
 Noé Jiménez; Trevor Cox; Jean-Philippe Groby; Vicent Romero García.
- 130 Title of the work:** Calcium sulfate setting monitoring with ultrasonic backscattering analysis
Name of the conference: ICU 2019 - International Congress on Ultrasonics
City of event: Bruges, Belgium
Date of event: 03/09/2019
End date: 06/09/2019
 Josep Rodriguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena.
- 131 Title of the work:** Magnetic force induced vibration on a ferromagnetic sphere for viscoelastic media characterization
Name of the conference: ICU 2019 - International Congress on Ultrasonics
City of event: Bruges, Belgium
Date of event: 03/09/2019
End date: 06/09/2019
 Alejandro Cebrecos; Miguel Company; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 132 Title of the work:** Transcranial acoustic holograms for arbitrary fields generation using focused ultrasound into the brain
Name of the conference: ICU 2019 - International Congress on Ultrasonics
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
 keynote talk
City of event: Bruges, Belgium
Date of event: 03/09/2019
End date: 06/09/2019
 Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 133 Title of the work:** Deep Sub-wavelength Materials for Controlling Sound Diffusion: Experimental Validation of Metadiffusers
Name of the conference: META 2019 - 10th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of participation: Participatory - oral **Reasons for participation:** Review before acceptance
 communication
City of event: Lisbon, Portugal
Date of event: 23/07/2019
End date: 26/07/2019
 Eric Ballesteros; Noé Jiménez; Jean-Philippe Groby; S. Dance; Vicent Romero-García.
- 134 Title of the work:** Focused ultrasound beyond phase-arrays: acoustic holographic lenses enable transcranial focusing of arbitrary fields at the central-nervous system
Name of the conference: XXXVII Reunión Bienal de la Real Sociedad Española de Física
Type of event: Conference
Type of participation: Participatory - Plenary **Reasons for participation:** Upon invitation
 session



Corresponding author: Yes

City of event: Zaragoza, Spain

Date of event: 15/07/2019

End date: 19/07/2019

Noé Jiménez; Sergio Jiménez; José M. Benlloch; Francisco Camarena.

135 Title of the work: Acoustic holograms for transcranial focusing of arbitrary ultrasonic fields into the brain

Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound

Corresponding author: Yes

City of event: Barcelona, Spain

Date of event: 13/06/2019

End date: 15/06/2019

Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.

136 Title of the work: Optimal overlapping protocol and robustness assessment of blood-brain barrier opening in humans using a single-element focused ultrasound transducer

Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound

Corresponding author: No

City of event: Barcelona, Spain

Date of event: 13/06/2019

End date: 15/06/2019

Sergio Jiménez-Gambín; Noé Jiménez; Andrei Marin; Francisco Camarena.

137 Title of the work: Study of the effect of cranial holes due to emissary veins and inhomogeneities in the thickness of the skull when focusing a transcranial ultrasound beam

Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound

Corresponding author: No

City of event: Barcelona, Spain

Date of event: 13/06/2019

End date: 15/06/2019

María C. Dejoz-Díez; Sergio Jiménez-Gambín; Andrei Marin; Noé Jiménez; Francisco Camarena.

138 Title of the work: Nonlinear waves in phononic rotational lattices

Name of the conference: PHONONICS 2019 - 5th International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Topological Phononics

Type of participation: Participatory - invited /
keynote talk

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Tucson (AZ), United States of America

Date of event: 03/06/2019

End date: 07/06/2019

Vitaly Gusev; Noé Jiménez; Víctor J. Sánchez-Morcillo.

139 Title of the work: Slow sound based metamaterials: From perfect absorbers to metadiffusers

Name of the conference: PHONONICS 2019 - 5th International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Topological Phononics

Type of participation: Participatory - invited /
keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Tucson (AZ), United States of America

Date of event: 03/06/2019



End date: 07/06/2019

Noé Jiménez; Weichun Huang; Vicent Romero-García; Vincent Pagneux; Trevor Cox; Jean-Philippe Groby.

140 Title of the work: Ultrasonic Holograms in the Brain

Name of the conference: VI Mediterranean Thematic Workshop in Advanced Molecular Imaging (MEDAMI) - Imaging in Immunotherapy

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Valencia, Spain

Date of event: 15/05/2019

End date: 17/05/2019

Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena.

141 Title of the work: A new transport and preservation medical device for liver transplantation

Name of the conference: AEEH 2019 - 44th Meeting of the Spanish Association for the Study of the Liver

City of event: Madrid, Spain

Date of event: 01/02/2019

Organising entity: Spanish Association for the Study of the Liver

MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.

142 Title of the work: Perfect and broadband acoustic absorption by metasurfaces made of aerogel clamped plates

Name of the conference: SAM 2018 Symposium on Acoustic Metamaterials

Corresponding author: No

City of event: Xàtiva, Spain

Date of event: 07/11/2018

End date: 10/11/2018

AA Fernández-Marín; Vicente Romero-García; Jean-Philippe Groby; Noé Jiménez; F Cervera; J Sánchez-Dehesa. ISSN 0001-4966

143 Title of the work: Use of Sonic Crystals for noise mitigation in the launch pad

Name of the conference: SAM 2018 Symposium on Acoustic Metamaterials

Corresponding author: No

City of event: Xàtiva, Spain

Date of event: 07/11/2018

End date: 10/11/2018

I Herrero-Durá; A Cebrecos; V Romero-García; LM García-Raffi; N Jiménez; R Picó; V Sánchez-Morcillo. ISSN 0001-4966

144 Title of the work: Complex frequency analysis of the scattering matrix for the design of perfect absorbers in reflection and transmission problems

Name of the conference: 176th Meeting of the Acoustical Society of America

Type of participation: Participatory - invited / keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Victoria, Canada

Date of event: 05/11/2018

End date: 09/11/2018

Noé Jiménez; Vicente Romero-García; Vincent Pagneux; Jean-Philippe Groby. ISSN 0001-4966



- 145** **Title of the work:** Strongly focused vortex beams by using flat Fresnel-spiral lenses
Name of the conference: 176th Meeting of the Acoustical Society of America
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes
City of event: Victoria, Canada
Date of event: 05/11/2018
End date: 09/11/2018
Noé Jiménez; Vicente Romero-García; Lluís M. García-Raffi; Francisco Camarena; Kestutis Staliunas. ISSN 0001-4966
- 146** **Title of the work:** Difusores acústicos de vórtice
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes
City of event: Cádiz, Spain
Date of event: 26/10/2018
Noé Jiménez; Jean-Philippe Groby; Vincet Romero-García.
- 147** **Title of the work:** Efectos del método de obtención de las propiedades acústicas de cráneo humano en la propagación focalizada de ultrasonidos
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
City of event: Cádiz, Spain
Date of event: 26/10/2018
Sergio Jiménez Gambín; Noé Jiménez; Francisco Camarena.
- 148** **Title of the work:** Magnetismo y Acústica: caracterización viscoelástica mediante sistemas magnético-ultrasónicos
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Corresponding author: No
City of event: Cádiz, Spain
Date of event: 26/10/2018
Miguel Company Arnalte; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 149** **Title of the work:** Monitoring the setting of bone cements using ultrasonic backscattering
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Corresponding author: No
City of event: Cádiz, Spain
Date of event: 26/10/2018
Josep Rodríguez Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena.
- 150** **Title of the work:** Vórtices acústicos altamente focalizados mediante espirales de Fresnel
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes



City of event: Cádiz, Spain

Date of event: 26/10/2018

Noé Jiménez; Vincet Romero-García; Lluís M. García Raffi; Francisco Camarena; Kestutis Staliunas.

151 Title of the work: Perceptual evaluation of metamaterials as insulation partitions: A listening test within the COST action DENORMS (CA15125)

Name of the conference: ISMA 2018 - 28th International Conference on Noise and Vibration Engineering

Corresponding author: No

City of event: Leuven, Belgium

Date of event: 17/09/2018

End date: 30/09/2018

L Ryck; J Cuenca; K Jambrosic; C Glorieux; M Rychtarikova; V Romero-Garcia; A Cebrecos; N Jiménez; J Groby.

152 Title of the work: Kinks in a chain of magnetic coupled pendulums: Experimental and numerical study

Name of the conference: NOLTA 2018 - International Symposium on Nonlinear Theory and Its Applications

City of event: Tarragona, Spain

Date of event: 02/09/2018

End date: 06/09/2018

Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Ahmed Mehrem; Víctor J. Sánchez-Morcillo; Juan F.R. Archilla.

153 Title of the work: Vortex-sound diffusers using spiral metasurfaces

Name of the conference: Metamaterials'2018 - 12th International Congress on Artificial Materials for Novel Wave Phenomena

Corresponding author: Yes

City of event: Espoo, Finland

Date of event: 27/08/2018

End date: 31/08/2018

Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby.

154 Title of the work: Thigmoimmunity: mechanical signals prime the quantitative disease resistance of plant

Name of the conference: IPB2018 - 9th International Plant Biomechanics

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Montreal, Canada

Date of event: 09/08/2018

End date: 14/08/2018

F Garcia; O Léger; R Vincent; A Duclos; N Jiménez; E Badel; N Leblanc-Fournier; S Raffaele; A Barbacci. ISSN 0001-4966

155 Title of the work: Modulated-nonlinearity in phononic crystals: from extremely linear to effective cubic nonlinear media

Name of the conference: ISNA 21 - 21st International Symposium on Nonlinear Acoustics, International Conference on Nonlinear Elasticity in Materials

Corresponding author: Yes

City of event: Santa Fe (NM), United States of America

Date of event: 09/07/2018

End date: 13/07/2018

Noé Jiménez; Vincent Tournat; Vicent Romero-García; Victor Sánchez-Morcillo.



- 156 Title of the work:** Nonlinear waves in a chain of magnetically coupled pendula
Name of the conference: ISNA 21 - 21st International Symposium on Nonlinear Acoustics, International Conference on Nonlinear Elasticity in Materials
City of event: Santa Fe (NM), United States of America
Date of event: 09/07/2018
End date: 13/07/2018
 Lluís M García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Ahmed Mehrem; Víctor J. Sánchez-Morcillo; Rubén Picó; Juan F.R. Archilla.
- 157 Title of the work:** Transport and preservation of liver in a revolutionary medical device
Name of the conference: TTS 2018 - 27th International Congress of The Transplantation Society
City of event: Madrid, Spain
Date of event: 05/07/2018
Organising entity: Transplantation Society
 MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; J Gulfo; Al Alvarez-Mercado; C Peralta.
- 158 Title of the work:** Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
 Noé Jiménez; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 159 Title of the work:** Modelización de la dinámica de una esfera en el seno de un medio viscoelástico
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
 Miguel Company; Noé Jiménez; Jose María Benlloch; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 160 Title of the work:** Modelling ultrasonic signal backscattering in bone-cement
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
 Josep Rodríguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus-López; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 161 Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: Euronoise 2018, 11th European Congress and Exposition on Noise Control Engineering
Type of participation: Participatory - invited /
Reasons for participation: Upon invitation
 keynote talk
Corresponding author: No
City of event: Crete, Greece
Date of event: 27/05/2018
End date: 31/05/2018



Jean-Philippe Groby; Noé Jiménez; Vincent Pagneux; Vicent Romero-García. ISSN 2226-5147

- 162 Title of the work:** Metadiffusers, deep subwavelength acoustic diffusers
Name of the conference: 14ème Congrès Français d'Acoustique
Corresponding author: Yes
City of event: Le Havre, France
Date of event: 23/04/2018
End date: 27/04/2018
Noé Jiménez; Trevor Cox; Vicent Romero-García; Jean-Philippe Groby.
- 163 Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 14ème Congrès Français d'Acoustique
Corresponding author: No
City of event: Le Havre, France
Date of event: 23/04/2018
End date: 27/04/2018
Jean-Philippe Groby; Noé Jiménez; Vincent Pagneux; Vicent Romero-García.
- 164 Title of the work:** On the conditions for perfect absorption of sound by rigidly-backed layers of porous materials
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
N Jiménez; V Romero-García; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 165 Title of the work:** Perfect absorption in acoustics metamaterials based on open lossy resonant building blocks
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
V Romero-García; N Jiménez; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 166 Title of the work:** Perfect and broadband sound absorption based in rainbow trapping phenomena
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
N Jiménez; V Romero-García; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 167 Title of the work:** Nonlinear localized waves in repulsive lattices
Name of the conference: ASME 2017 International Mechanical Engineering Congress and Exposition (IMECE)
City of event: Tampa, United States of America
Date of event: 07/11/2017
Organising entity: American Society of Mechanical Engineers
V́ctor J. Sánchez-Morcillo; Luis J. Salmerón-Contreras; Luis M. García-Raffi; Ruben Pico; Noé Jiménez; J. F. R. Archilla. "Proceedings of the ASME 2017 IMECE".
- 168 Title of the work:** A new medical device for the preservation and transport of livers that are going to be transplanted
Name of the conference: 26º Congress of the Spanish Hepatic Transplant Society (SETH)



City of event: Valencia, Spain

Date of event: 01/11/2017

Organising entity: Spanish Hepatic Transplant Society

MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.

- 169 Title of the work:** Absorción perfecta de baja frecuencia por paneles acústicos ultrafinos basados en metamateriales
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica

Corresponding author: Yes

City of event: La Coruña, Spain

Date of event: 04/10/2017

Noé Jiménez; Vincet Romero-García; Vincent Pagneux; Jean-Philippe Groby.

- 170 Title of the work:** Estudio numérico del protocolo de propagación transcraneal de ultrasonidos para la apertura de la barrera hematoencefálica en el hipocampo de humano
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica

Corresponding author: No

City of event: La Coruña, Spain

Date of event: 04/10/2017

S Jiménez-Gambín; N Jiménez; M Company; F Camarena. "Proceedings of the TECNIACUSTICA 2017. 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica".

- 171 Title of the work:** Metadifusores: difusores acústicos ultrafinos basados en metamateriales
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica

City of event: La Coruña, Spain

Date of event: 04/10/2017

Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby.

- 172 Title of the work:** A new medical device in transplantation for liver transport and preservation
Name of the conference: ESOT 18th Congress of the European Society for Organ Transplantation

City of event: Barcelona, Spain

Date of event: 01/09/2017

Organising entity: European Society for Organ Transplantation

MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.

- 173 Title of the work:** Rainbow trapping absorbers: Broadband and perfect absorption in subwavelength panels
Name of the conference: Industrial Applications of Acoustic Metamaterials, GdR META and COST Action DENORMS (CA15125)

City of event: Marseille, France

Date of event: 01/09/2017

Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.

- 174 Title of the work:** Metadiffusers: sound diffusers with deep-subwavelength dimensions
Name of the conference: Metamaterials 2017, 11th International Congress on Engineered Material Platforms for Novel Wave Phenomena

City of event: Marseille, France

Date of event: 28/08/2017

Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby.

- 175 Title of the work:** Nonlinear Waves in a Lattice of Magnetic Dipoles
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
City of event: Vienna, Austria
Date of event: 30/07/2017
Luis Salmerón-Contreras; Noé Jiménez; Víctor J. Sánchez-Morcillo; Lluís M. García Raffi; Rubén Picó; J. F.R. Archilla.
- 176 Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes
City of event: Vienna, Austria
Date of event: 30/07/2017
Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.
- 177 Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 24th International Congress on Sound and Vibration (ICSV24)
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
City of event: London, United Kingdom
Date of event: 23/07/2017
Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.
- 178 Title of the work:** Nonlinear Waves in Layered Ionic Crystals
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
City of event: Vienna, Austria
Date of event: 30/06/2017
J. F. Archilla; Y. A. Kosevich; Y. O. Zolotaryuk; Víctor Sanchez-Morcillo; Noé Jiménez; Luis M. García-Raff.
- 179 Title of the work:** Perfect and broadband acoustic absorption in deep sub-wavelength structures for the reflection and transmission problems
Name of the conference: Acoustics '17 Joint Meeting of the Acoustical Society of America and the European Acoustics Association
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
City of event: Boston, United States of America
Date of event: 25/06/2017
Vicent Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Phillipe GRoby.
- 180 Title of the work:** From metaporous materials to subwavelength absorbers: some recipe to design perfect sound absorbers
Name of the conference: 61st IcETran Conference
City of event: Kladovo, Serbia
Date of event: 05/06/2017
Jean-Philippe Groby; Noé Jiménez; L. Schwan; C. Lagarrigue; W. Huang; V. Romero-García; V. Tournat; V. Pagneux; O. Dazel; T. Weisser; Y. Aurégan; B. Nennig.



- 181 Title of the work:** Subwavelength absorbers and metasurfaces
Name of the conference: DENORMS Workshop on Modelling of high performance acoustic structures
Porous media, metamaterials and sonic crystals
Type of participation: Participatory - Plenary session
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Rome, Italy
Date of event: 23/01/2017
Noé Jiménez.
- 182 Title of the work:** Nonlinear waves in phononic rotational lattices
Name of the conference: IMECE International Mechanical Engineering Congress & Exposition
City of event: Phoenix, United States of America
Date of event: 15/11/2016
V. Sánchez-Morcillo; V. Gusev; N. Jiménez. ISBN 978-0-7918-5067-1
- 183 Title of the work:** Localized nonlinear modes in microbubbles under the action of ultrasound
Name of the conference: Ultrasonics Symposium (IUS), 2016 IEEE International
City of event: Tours, France
Date of event: 18/09/2016
Serge Dos Santos; Noé Jiménez; Víctor Sánchez-Morcillo. ISSN 1948-5727
DOI: 10.1109/ULTSYM.2016.7728853
- 184 Title of the work:** Design of sub-wavelength acoustic absorbing panels using accumulation of resonances due to slow sound
Name of the conference: Metamaterials 2016 - 10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics
City of event: Crete, Greece
Date of event: 17/09/2016
N. Jiménez; J-P. Groby; V. Romero-García; V. Pagneux. ISBN 978-1-5090-1803-1
DOI: 10.1109/MetaMaterials.2016.7746466
- 185 Title of the work:** Ultra thin acoustic metamaterial panels based on resonant bricks for perfect absorption
Name of the conference: Metamaterials 2016 - 10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics
City of event: Crete, Greece
Date of event: 17/09/2016
N. Jiménez; W. Huang; J-P. Groby; V. Pagneux; V. Romero-García. ISBN 978-1-5090-1803-1
DOI: 10.1109/MetaMaterials.2016.7746466
- 186 Title of the work:** Study of aberrations at the focus of an ultrasonic beam due to the propagation across different areas of the skull
Name of the conference: 5th International Symposium on Focused Ultrasound
City of event: Bethesda, Maryland, United States of America
Date of event: 01/09/2016
F. Camarena; S. Jiménez-Gambín; N. Jiménez; E. E. Konofagou.
- 187 Title of the work:** Gap solitons in acoustic layered media
Name of the conference: EAA EuroRegio 2016. Jointly with 9º Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016



City of event: Porto, Portugal

Date of event: 13/06/2016

End date: 15/06/2016

L. J. Salmerón-Contreras; L.M. García-Raffi; N. Jiménez; A. Meherem; R. Picó; V. Sánchez-Morcillo; K. Staliunas. ISBN 978-84-87985-27-0

188 Title of the work: Second harmonic propagation in coupled oscillators

Name of the conference: EAA EuroRegio 2016. Jointly with 9^o Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016

City of event: Porto, Portugal

Date of event: 13/06/2016

A. Mehrem; V. Sánchez-Morcillo; N. Jiménez; L. Salmerón-Contreras; X. García-Andres; R. Picó; L.M. García-Raffi. "Conferencias y Comunicaciones de EuroRegio 2016, 9^o Congreso Ibérico de Acústica y 47^o Congreso Español de Acústica -TECNIACUSTICA 2016". ISBN 978-84-87985-27-0

189 Title of the work: Solitary waves in nonlinear phononic crystals

Name of the conference: EAA EuroRegio 2016. Jointly with 9^o Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016

City of event: Porto, Portugal

Date of event: 13/06/2016

Ahmed Mehrem; Rubén Picó; Víctor J. Sánchez-Morcillo; Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Kestutis Staliunas. ISBN 978-84-87985-27-0

190 Title of the work: Acoustic gap solitons in layered media

Name of the conference: NoLineal 2016: International Conference on Nonlinear Mathematics and Physics

City of event: Seville, Spain

Date of event: 09/06/2016

Luis Salmerón-Contreras; Lluís M. García-Raffi; Noé Jiménez; Ahmed Mehren; Rubén Picó; Víctor J. Sánchez-Morcillo; Kestutis Staliunas.

191 Title of the work: Second harmonic generation in a chain of magnetic pendulums

Name of the conference: NoLineal 2016: International Conference on Nonlinear Mathematics and Physics

City of event: Seville, Spain

Date of event: 09/06/2016

Ahmed Mehren; Noé Jiménez; Luis Salmerón-Contreras; Xavier García-Andrés; Rubén Picó; Lluís M. García-Raffi; Víctor J. Sánchez-Morcillo.

192 Title of the work: Absorption quasi-parfaite du son par un métamatériau acoustique suite à l'accumulation de résonances due à une propagation lente

Name of the conference: CFA/VISHNO 2016, Congrès Français d'Acoustique

City of event: Le Mans, France

Date of event: 15/04/2016

Noé Jiménez; Weichun Huang; Jean-Philippe Groby; Vicent Romero-García; Vincent Pagneux.

193 Title of the work: Fentes minces chargées par des résonateurs de Helmholtz pour l'absorption du son dans l'audible

Name of the conference: CFA/VISHNO 2016, Congrès Français d'Acoustique

City of event: Le Mans, France

Date of event: 15/04/2016

Weichun Huang; Jean-Philippe Groby; Vicent Romero-García; Noé Jiménez.

- 194** **Title of the work:** Surface acoustic waves for the characterization of fruit
Name of the conference: Fruit Structure 2015
Corresponding author: Yes
City of event: Angers, France
Date of event: 01/12/2015
Aroune Duclos; Noé Jiménez; Jean-Philippe Groby.
- 195** **Title of the work:** Ultrasonic evaluation of the hydration degree of the orange peel
Name of the conference: Fruit Structure 2015
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
Corresponding author: Yes
City of event: Angers, France
Date of event: 01/12/2015
Noé Jiménez; Francisco Camarena; Rubén Picó; Javier Redondo; Aroune Duclos; Jean-Philippe Groby.
- 196** **Title of the work:** Nonlinear waves in phononic lattices and superlattices
Name of the conference: IMECE 2015: International Mechanical Engineering Congress & Exposition
City of event: Huston, Texas, United States of America
Date of event: 13/11/2015
End date: 19/11/2015
Víctor J. Sánchez-Morcillo; Noé Jiménez; Ahmed Mehrem; Rubén Picó; Lluís M. García-Raffi. "Proceedings of the IMECE2015". ISBN 978-0-7918-5756-4
- 197** **Title of the work:** Time-domain simulation of constitutive relations for nonlinear acoustics including relaxation for frequency power law attenuation media modelling
Name of the conference: 20th International Symposium on Nonlinear Acoustics. Including the 2nd International Sonic Boom Forum
City of event: Lyon, France,
Date of event: 03/07/2015
Noe Jimenez Gonzalez; Francisco Camarena Femenia; Víctor José Sánchez Morcillo; Francisco Javier Redondo Pastor; Elisa Konofagou. "AIP Conference Proceedings 1685, 070012 (2015)". pp. 101 - 105. ISBN 978-0-7354-1332-0
DOI: 10.1063/1.4934449
- 198** **Title of the work:** Diffusion of Sound Waves by Sonic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
LUIS JOSÉ SALMERÓN CONTRERAS; Alejandro Cebrecos Ruiz; Noe Jimenez Gonzalez; Luis Miguel García Raffi; Rubén Picó Vila; Francisco Javier Redondo Pastor; Vicente Romero García; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 196 - 197.
- 199** **Title of the work:** Efficient Second Harmonic Generation of Narrow Beams in 2D Sonic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
El-Mokhtar Hamham; Noe Jimenez Gonzalez; Rubén Picó Vila; Luis Miguel García Raffi; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 436 - 437.



- 200** **Title of the work:** Helical Bessel Beam Formation by an Archimedean Spiral Grating
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
Noe Jimenez Gonzalez; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 112 - 113.
- 201** **Title of the work:** Nonlinear Waves in Periodic Media: from Lattices to Superlattices and Phononic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; AHMED MEHREM; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; Vincent Tournat. "Proceedings". pp. 456 - 457.
- 202** **Title of the work:** Nonlinear Waves in a Discrete Magnetic Lattice
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
AHMED MEHREM; Noe Jimenez Gonzalez; LUIS JOSÉ SALMERÓN CONTRERAS; Xavier García Andrés; Luis Miguel García Raffi; Víctor José Sánchez Morcillo; Rubén Picó Vila. "Proceedings". pp. 438 - 439.
- 203** **Title of the work:** High-order acoustic Bessel beam generation by spiral gratings
Name of the conference: International Congress on Ultrasonics (ICU 2015)
City of event: Metz, France,
Date of event: 14/05/2015
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; KESTUTIS STALIUNAS. "Physics Procedia 70 (2015) 245-248". pp. 262 - 262. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.08.146
- 204** **Title of the work:** Propagation of Intense Acoustic Waves in Sonic Crystals
Name of the conference: International Congress on Ultrasonics (ICU 2015)
City of event: Metz, France,
Date of event: 14/05/2015
Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; AHMED MEHREM; El-Mokhtar Hamham; Luis Miguel García Raffi; Rubén Picó Vila. "Physics Procedia 70 (2015) 271-274". pp. 175 - 175. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.08.152
- 205** **Title of the work:** Nonlinear Acoustic Waves Periodic Media
Name of the conference: 7th Forum Acusticum 2014
City of event: Krakow, Poland,
Date of event: 12/09/2014
AHMED MEHREM; El Mokhtar Hamham; Noe Jimenez Gonzalez; Alejandro Cebrecos Ruiz; Rubén Picó Vila; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. "Proceedings of 7th Forum Acusticum". pp. 1 - 1. European Acoustics Association,



- 206** **Title of the work:** Lattice of nonlinear coupled oscillators: An acousto-mechanical analogy of gas microbubble
Name of the conference: 2014 IEEE International Ultrasonics Symposium (IUS)
City of event: Chicago, USA,
Date of event: 06/09/2014
Jennifer Chaline; Ayache Bouakaz; J. M. Escoffre; Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos. "Ultrasonics Symposium (IUS), 2014 IEEE International". pp. 1 - 4. IEEE, ISBN 978-1-4799-7049-0
DOI: 10.1109/ULTSYM.2014.0567
- 207** **Title of the work:** Analogie macroscopique et acousto-mécanique d'une microbulle d'agent de contraste
Name of the conference: 12ème Congrès Français d'Acoustique
City of event: Poitiers, France,
Date of event: 25/04/2014
Jennifer Chaline; Serge Dos Santos; Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Ayache Bouakaz. pp. 927 - 932.
- 208** **Title of the work:** Efficiency of parametric ultrasound generation in relaxing media for very shallow-water echo sounders
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Patricia Ordoñez Cebrian; Noe Jimenez Gonzalez; Víctor Espinosa Roselló; Vicente Puig Pons; Ester Soliveres González. pp. 1 - 6.
- 209** **Title of the work:** Nonlinear ultrasound simulations including complex frequency dependent attenuation
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Physics Procedia 63 (2015) 108-113". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.018
- 210** **Title of the work:** On the Nonlinear Effects in Focused Ultrasound Beams with Frequency Power Law Attenuation
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Víctor José Sánchez Morcillo; Pablo Cambor Iglesias; Francisco Camarena Femenia. "Physics Procedia 63 (2015) 47-53". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.008
- 211** **Title of the work:** Transcranial Propagation with an Ultrasonic Mono-Element Focused Transducer
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Elisa Konofagou; Francisco Camarena Femenia; Francisco Javier Redondo Pastor. "Physics Procedia 63 (2015) 103 - 107". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.017

- 212 Title of the work:** Estimación del tiempo de reverberación a partir de respuestas impulsivas con baja relación señal-ruido
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Francisco Javier Redondo Pastor; Noe Jimenez Gonzalez; Pablo Cambor Iglesias. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1202 - 1208. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 213 Title of the work:** Estudio paramétrico de la propagación transcraneal de un haz ultrasónico para la apertura de la barrera hematoencefálica
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1638 - 1645. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 214 Title of the work:** Ondas acústicas de amplitud finita en medios con relajación: aplicación al modelado de tejidos biológicos
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia; Víctor José Sánchez Morcillo. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1632 - 1637. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 215 Title of the work:** Pantallas acústicas basadas en cristales de sonido
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Francisco Javier Redondo Pastor; Noe Jimenez Gonzalez; Juan Vicente Sánchez Pérez; Jose Miguel Fuster Fajardo; Juan Miguel Barrigón; Pedro Atanasio. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1101 - 1108. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 216 Title of the work:** A crowdion in mica. Between K40 recoil and transmission sputtering.
Name of the conference: Quodons in mica: nonlinear localized travelling excitations in crystals (QiM 2013)
Type of participation: Participatory - invited / **Reasons for participation:** Upon invitation
keynote talk
City of event: Altea, España,
Date of event: 21/09/2013
Noe Jimenez Gonzalez; Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. pp. 22 - 23.

- 217 Title of the work:** Vibration modes in a pendulums ring: analogy with gas microbubbles surface modes
Name of the conference: 2013 Joint UFFC, EFTF and PFM Symposium. Int Ultrasonics Symposium (IUS), Int. Symposium on the Applications of Ferroelectrics ? Piezoresponse Force Microscopy Workshop (ISAF? PFM), Int. Frequency Control Symposium ? European Frequency and Time Forum
City of event: Praga, República Checa,
Date of event: 25/07/2013
Jennifer Chaline; Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Ayache Bouakaz; Serge Dos Santos. pp. 1 - 6. IEEE, ISBN 978-1-4673-5686-2
DOI: 10.1109/ULTSYM.2013.0085
- 218 Title of the work:** Focalización de ondas acústicas mediante una lente formada por dispersores toroidales rígidos.
Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Física
City of event: Valencia,
Date of event: 19/07/2013
Daniel Tarrazo Serrano; Rubén Picó Vila; Vicente Romero García; Alejandro Cebrecos Ruiz; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi; Juan Vicente Sánchez Pérez. "XXXIV Reunión Bienal de la Real Sociedad Española de Física". pp. 4 - 6. Real Sociedad Española de Física,
- 219 Title of the work:** Interacción Coulombiana, estorninos y Angry Birds
Name of the conference: 23º Encuentro Ibérico de Enseñanza de la Física
City of event: Valencia, España,
Date of event: 19/07/2013
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi; Juan Francisco Rodriguez Archilla; Francisco Javier Redondo Pastor. "XXXIII Reunión Bienal de la Real Sociedad Española de Física. 23º Encuentro Ibérico de Enseñanza de la Física". pp. 1 - 1. Sociedad Española de Física,
- 220 Title of the work:** Parametric Study of transcranial focused ultrasound propagation for blood-brain barrier opening
Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Física
City of event: Valencia,
Date of event: 19/07/2013
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "XXXIV Reunión Bienal de la Real Sociedad Española de Física". pp. 774 - 775. Real Sociedad Española de Física,
- 221 Title of the work:** Simulación numérica con FDTD de una cerámica piezoeléctrica
Name of the conference: 23º Encuentro Ibérico de Enseñanza de la Física
City of event: Valencia, España,
Date of event: 19/07/2013
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Nuria González Salido; Marcelino Ferri García; Rubén Picó Vila; Bernardino Roig Sala; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "XXXIII Reunión Bienal de la Real Sociedad Española de Física. 23º Encuentro Ibérico de Enseñanza de la Física". pp. 1 - 1. Sociedad Española de Física,
- 222 Title of the work:** Parametric study of transcranial focused ultrasound propagation for blood?brain barrier opening
Name of the conference: 5th European Symposium on Ultrasonic Characterization of Bone (ESUCB 2013)
City of event: Granada,
Date of event: 10/05/2013
Noe Jimenez Gonzalez; Pablo Cambor Iglesias; Francisco Javier Redondo Pastor; Elisa Konofagou; Francisco Camarena Femenia. "Proceedings ESUCB 2013. European



Symposium on Ultrasonic Characterization of Bone". pp. 38 - 39. University of Granada http://www.ugr.es/~grus/x/proceedings_esucb13.pdf,

- 223 Title of the work:** Effect of ZBL potential on kinks in repulsive lattices
Name of the conference: IV International Symposium on Strong Nonlinear Vibronic and Electronic Interactions in Solids
City of event: Tartu, Estonia,
Date of event: 03/05/2013
Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. "IV International Symposium on Strong Nonlinear Vibronic and Electronic Interactions in Solids. Book of Abstracts". pp. 26 - 26. University of Tartu,
- 224 Title of the work:** Supersonic solitons and kinks in repulsive lattices
Name of the conference: Workshop Lattice Solitons and Irradiation-induced Nonlinear Phenomena in Solids
City of event: Tartu, Estonia,
Date of event: 02/11/2012
Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. pp. 1 - 1.
- 225 Title of the work:** Moving excitations in cation lattices
Name of the conference: International Conference Problems of Theoretical Physics
City of event: Kiev, Ukraine,
Date of event: 11/10/2012
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Yuri Kosevich .; Luis Miguel García Raffi; Juan Francisco Rodriguez Archilla. "International Conference Problems of Theoretical Physics. Program & Proceedings". pp. 58 - 58. University of Kyiv,
- 226 Title of the work:** Spatio-temporal dynamics in a ring of coupled pendula: analogy with bubbles
Name of the conference: 2nd Conference on Localized Excitations in Nonlinear Complex Systems (LENCOS'12)
City of event: Sevilla, España,
Date of event: 12/07/2012
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Jennifer Chaline; Ayache Bouakaz; Serge Dos Santos. "Proceedings". pp. 29 - 29. ISBN 978-3-319-02056-3
- 227 Title of the work:** Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues
Name of the conference: III Jornadas de Modelización Matemática
City of event: Gandia,
Date of event: 08/06/2012
Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos; Jennifer Chaline; Ayache Bouakaz; Nuria González Salido. "Modelling in Science Education and Learning, 6 (7), pp 75-87, (2013)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 228 Title of the work:** Simulación numérica de una cerámica piezoeléctrica
Name of the conference: III Jornadas de Modelización Matemática
City of event: Gandia,
Date of event: 08/06/2012

Nuria González Salido; Marcelino Ferri García; Noe Jimenez Gonzalez; Francisco Camarena Femenia; Rubén Picó Vila; Francisco Javier Redondo Pastor; Bernardino Roig Sala. "Modelling in Science Education and Learning, 6 (12), pp 131–143, (2013)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1990

229 Title of the work: Aplicaciones médicas de los ultrasonidos en el IGIC

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Sales Castells Ramón; Marcelino Ferri García; Pedro Alonso Jordá; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 11 - 16. ISBN 978-84-87985-20-1

230 Title of the work: Efectos no lineales en la fuerza de radiación generada por haces focalizados de amplitud modulada

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 17 - 20. ISBN 978-84-87985-20-1

231 Title of the work: Estudio de la propagación no lineal de haces de ultrasonidos focalizados a través del cráneo para la apertura de la barrera hematoencefálica

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 3 - 12. SEA, ISBN 978-84-87985-20-1

232 Title of the work: Predicción numérica de ondas acústicas de amplitud finita bajo condiciones de contorno arbitrarias

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 1 - 10. ISBN 978-84-87985-20-1



- 233** **Title of the work:** Modulational Instability and Localized Modes for Ultrasound Contrast Microbubbles Surface Oscillations
Name of the conference: 2011 IEEE International Ultrasonics Symposium
City of event: Orlando, Florida, USA,
Date of event: 18/10/2011
Noe Jimenez Gonzalez; Serge Dos Santos; Víctor José Sánchez Morcillo; Jennifer Chaline; Ayache Bouakaz. "Ultrasonics Symposium (IUS), 2011 IEEE International". pp. 648 - 651. ISBN 978-1-4577-1252-4
- 234** **Title of the work:** Modulational Instability of Microbubbles Surface Modes
Name of the conference: International Congress on Ultrasonics (ICU 2011)
City of event: Gdansk, Poland,
Date of event: 05/09/2011
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; André-Pierre Abellard; Serge Dos Santos; Ayache Bouakaz. "Ultrasonics Symposium (IUS), 2011 IEEE International". pp. 311 - 314. ISBN 978-1-4577-1252-4
DOI: 10.1109/ULTSYM.2011.0157
- 235** **Title of the work:** Nonlinear Effects In The Radiation Force Generated By Amplitude-Modulated Focused Beams
Name of the conference: 11th International Symposium on Therapeutic Ultrasound
City of event: Marriott Marquis in New York,
Date of event: 11/04/2011
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "AIP Conf. Proc. 1481, 112 (2012)". pp. 15 - 22. ISBN 978-0-7354-1093-0
DOI: 10.1063/1.4757320
- 236** **Title of the work:** Numerical Study of Nonlinear, Transcranial Focused Ultrasound Wave Propagation for Blood-Brain Barrier (BBB) Opening
Name of the conference: 11th International Symposium on Therapeutic Ultrasound
City of event: Marriott Marquis in New York,
Date of event: 11/04/2011
Noe Jimenez Gonzalez; Bernardino Roig Sala; Francisco Javier Redondo Pastor; Rubén Picó Vila; Francisco Camarena Femenia. "AIP Conf. Proc. 1481, 155 (2012)". pp. 8 - 14. ISBN 978-0-7354-1093-0
DOI: 10.1063/1.4757327
- 237** **Title of the work:** Cálculo de campos acústicos no lineales mediante diferencias finitas en dominio temporal
Name of the conference: TECNIACUSTICA 2010. 41 º Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible
City of event: León, España,
Date of event: 13/10/2010
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Francisco Camarena Femenia; Adrián Fernández Martínez; Víctor José Sánchez Morcillo. "Conferencias y comunicaciones de Tecniacustica 2010 -41º Congreso Español de Acustica, 6º Congreso Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación acústicamente sostenible". pp. 803 - 819. S.E.A., ISBN 978-84-87985-19-5
- 238** **Title of the work:** Más allá del foco geométrico en haces focalizados de ultrasonidos
Name of the conference: TECNIACUSTICA 2010. 41 º Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible
City of event: León, España,
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239 Title of the work: Simulación acústica de tejidos vegetales en coordenadas esféricas mediante FDTD

Name of the conference: TECNIACUSTICA 2010. 41 º Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible

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240 Title of the work: Modulational instability of microbubbles surface modes

Name of the conference: 2010 IEEE Internacional Ultrasonics Symposium (IUS)

City of event: San Diego EEUU,

Date of event: 11/10/2010

Francisco Camarena Femenia; YURI MAKOV; Víctor José Sánchez Morcillo; Silvia Adrián Martínez; Noe Jimenez Gonzalez. "Proceedings of Ultrasonics Symposium (IUS)". pp. 311 - 314. IEEE, ISSN 1948-5719

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Name of the conference: ICA 2010. 20th International Congress on Acoustics

City of event: Sidney, Australia,

Date of event: 23/08/2010

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Name of the conference: ICA 2010. 20th International Congress on Acoustics

City of event: Sidney, Australia,

Date of event: 23/08/2010

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243 Title of the work: Estudio experimental y numérico de la propagación de ultrasonidos en medios heterogéneos

Name of the conference: TECNIACÚSTICA 2009. 40º Congreso Nacional de Acústica

City of event: Cádiz, España,

Date of event: 23/09/2009

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Name of the conference: ACOUSTICS'08 - EURONOISE

City of event: Paris, Francia,

Date of event: 29/06/2008



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DOI: <http://dx.doi.org/10.1121/1.2934790>

- 245 Title of the work:** 3D Printed Quadratic Residue Metadiffuser - Design and Measurements of an Optimized Deep-Subwavelength Sound Diffuser

Organising entity: International Commission for Acoustics

Type of contribution: Scientific book or monograph

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- 246 Title of the work:** 3D-printed acoustic holograms to generate thermal holographic patterns

Organising entity: University of Oxford

Type of contribution: Scientific book or monograph

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- 247 Title of the work:** A Hybrid magnetic-ultrasonic technique for spectral viscoelastic characterization of soft solids

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Noé Jiménez. "180th Meeting of the Acoustical Society of America, Acoustics in Focus. Online, 8 - 10 June". 149 - 4, AIP Publishing, Available on-line at: <<https://asa.scitation.org/doi/abs/10.1121/10.0004523>>. ISBN ISSN: 0001-4966

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Organising entity: International Society for Therapeutic Ultrasound

Type of contribution: Scientific book or monograph

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- 249 Title of the work:** A crowdion in mica. Between K40 recoil and transmission sputtering

Organising entity: Universidad de Sevilla

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- 250 Title of the work:** A helicoidal parametric antenna for subwavelength vortex generation

Organising entity: University of Oxford

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Organising entity: Institute of Electrical and Electronics Engineers

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253 Title of the work: A new medical device for the preservation and transport of livers that are going to be transplanted

Organising entity: Spanish Hepatic Transplant Society

Type of contribution: Scientific book or monograph

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Organising entity: Institute of Electrical and Electronics Engineers

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Organising entity: International Society for Therapeutic Ultrasound

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262 Title of the work: Acoustic Holograms for Biomedical Ultrasound Applications

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263 Title of the work: Acoustic and Optic drills by dynamic high-order Bessel beam mixing

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Organising entity: Sociedad Española de Acústica

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Organising entity: Acoustical Society of America

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Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica
Type of contribution: Scientific book or monograph
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- 282 Title of the work:** Aplicaciones de los ultrasonidos en medicina
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- 284 Title of the work:** Application of metamaterials to control noise scattering during space vehicle lift-off
Organising entity: Sociedade Portuguesa de Acústica
Type of contribution: Scientific book or monograph
Mara Escartí-Guillem; Pablo Barriuso Feijoo; Alejandro Cebrecos; Marcos Chimeno-Manguán; Pedro Cobo; Luis M García-Raffi; Jean-Philippe Groby; Sergio Hoyas; Noé Jiménez; Mario Lázaro; Julien Leng; José Nieto; Rubén Picó; José Manuel Requena-Plens; Elena Riobás; Vicente Romero-García; Víctor

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Organising entity: CNRS, Óbuda University

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Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica

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Organising entity: International Commission for Acoustics

Type of contribution: Scientific book or monograph

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289 Title of the work: Beyond the geometrical focus in focused acoustic beams

Organising entity: International Commission for Acoustics

Type of contribution: Scientific book or monograph

Francisco Camarena; Yuri Makov; Víctor Sánchez-Morcillo; Silvia Adrian; Javier Redondo; Noé Jiménez. "ICA 2010: 20th International Congress on Acoustics. Sydney, Australia. 23-27 August". - - -, pp. 294 - 5. Australian Acoustical Society, Available on-line at: https://www.acoustics.asn.au/conference_proceedings/ICA2010/cdrom-ICA2010/.

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Organising entity: Politecnico di Torino

Type of contribution: Scientific book or monograph

Eric Ballester; Josep Rodríguez-Sendra; Jean-Philippe Groby; Vicent Romero-García; Noé Jiménez. "Forum Acusticum 2023: 10th Convention of the European Acoustics Association. Turin, Italy. 11 - 15 September". 1 - 1, pp. 5171 - 5175. European Acoustics Association, Available on-line at: <https://dael.euracoustics.org/confs/fa2023/data/articles/000884.pdf>. ISBN ISBN: 978-84-87985-30-4



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Organising entity: Focused Ultrasound Foundation
Type of contribution: Scientific book or monograph
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Organising entity: Young Researchers in Acoustic Metamaterials
Type of contribution: Scientific book or monograph
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Type of contribution: Scientific book or monograph
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Organising entity: KU Leuven
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Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

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Organising entity: Institute of Physics

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Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

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Organising entity: Young Researchers in Acoustic Metamaterials

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Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

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- 332 Title of the work:** Estudio experimental y numérico de la propagación de ultrasonidos en medios heterogéneos

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Type of contribution: Scientific book or monograph

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- 333 Title of the work:** Estudio numérico del protocolo de propagación transcraneal de ultrasonidos para la apertura de la barrera hematoencefálica en el hipocampo de humano

Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

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Organising entity: Universidad de Murcia

Type of contribution: Scientific book or monograph

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Type of contribution: Scientific book or monograph

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Organising entity: KU Leuven

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Organising entity: Young Researchers in Acoustic Metamaterials

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Organising entity: International Society for Therapeutic Ultrasound

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Organising entity: Asociación Española de Urología

Type of contribution: Scientific book or monograph

A. J. Beviá-Romero; Brenda Morant-Fernando; Francisco Quereda-Flores; Pilar Bahilo; J. Pérez-Ardavín; Enrique González-Mateo; Sergio Maldonado-Ortega; Daniel Sanz-Montrull; Alejandro Cebrecos; Alicia Carrión; Francisco Camarena; César David Vera-Donoso; Alberto Budía-Alba; Noé Jiménez. "LXXXVIII Congreso Nacional de Urología. Cádiz, Spain, 11 - 13 Juny 2025". - - -, pp. P - 97. -, Available on-line at: <<https://lr.aeu.es/pagina.aspx?pagina=cnu2025P-97>>. ISBN ISSN: 0001-4966

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Organising entity: European Acoustics Association

Type of contribution: Scientific book or monograph

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Organising entity: European Mechanics Society

Type of contribution: Scientific book or monograph

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Organising entity: Sociedade Portuguesa de Acústica

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Organising entity: Instituto Universitario de Matematica Pura y Aplicada

Type of contribution: Scientific book or monograph

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471 Title of the work: Simulación numérica con FDTD de una cerámica piezoeléctrica

Organising entity: Real Sociedad Española de Física

Type of contribution: Scientific book or monograph

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Organising entity: Sociedade Portuguesa de Acústica

Type of contribution: Scientific book or monograph

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Organising entity: Sociedad Española de Acústica

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475 Title of the work: Sistema de microscopía fotoacústica empleando conformación de haz para escaneo de grandes superficies

Organising entity: Sociedad Española de Acústica

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476 Title of the work: Slow sound based metamaterials: From perfect absorbers to metadiffusers

Organising entity: PHONONICS Conference

Type of contribution: Scientific book or monograph

Noé Jiménez; Weichun Huang; Vicent Romero-García; Vincent Pagneux; Trevor Cox; Jean Philippe Groby. "Phononics 2019: 5th International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Topological Phononics. Tucson, USA. 3 - 7 June". - - -, -, Available on-line at: <<https://phononics2019.org/>>. ISBN ISBN: 978-84-87985-30-4

477 Title of the work: Solitary waves in nonlinear phononic crystals

Organising entity: European Acoustics Association

Type of contribution: Scientific book or monograph

A. Mehrem; R. Picó; V. J. Sánchez-Morcillo; L. M. García-Raffi; L. J. Salmerón-Contreras; N. Jiménez K. Staliunas. "EAA EuroRegio 2016: Jointly with 9th Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016. Porto, Portugal. June 13-15". 47 - 1, pp. 197 - 7. Sociedad Española de Física, Available on-line at: <<http://www.sea-acustica.es/index.php?id=731>>.

478 Title of the work: Sound Diffusion by Spiral Acoustic Metasurfaces based on Holographic Vortices

Organising entity: The City University of New York

Type of contribution: Scientific book or monograph

Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. "METAMATERIALS 2021. 15th International Congress on Artificial Materials for Novel Wave Phenomena. New York, 20 - 25 September". - - -, AIP Publishing, Available on-line at: <->. ISBN ISSN: 0001-4966

479 Title of the work: Sound diffusing metasurfaces based on elastic plates and membranes

Organising entity: Sociedade Portuguesa de Acústica

Type of contribution: Scientific book or monograph

José Manuel Requena-Plens; Jean-Philippe Groby; Vicent Romero-García; Noé Jiménez. "EuroNoise 2021: European Congress and Exposition on Noise Control Engineering. Madeira, Portugal. 24-27 October". - - -, pp. 1279 - 1286. -, Available on-line at: <<http://www.sea-acustica.es/>>.

- 480 Title of the work:** Spatio-temporal dynamics in a ring of coupled pendula: analogy with bubbles
Organising entity: Universidad de Sevilla
Type of contribution: Scientific book or monograph
Víctor Sánchez-Morcillo; Noé Jiménez; Jennifer Chaline; Ayache Bouakaz; Serge Dos Santos. "LENCOS'12: Localized Excitations in Nonlinear Complex Systems, Seville, Spain. 9 - 12 July". - - -, pp. 251 - 262. Springer, Available on-line at: <https://link.springer.com/chapter/10.1007/978-3-319-02057-0_13#citeas>.
- 481 Title of the work:** Spinning optical drills by dynamic high-order Bessel beam mixing
Organising entity: SPIE Photonics Europe
Type of contribution: Scientific book or monograph
Gabrielius Kontenis; Alejandra A. Padilla-Camargo; Darius Gailevicius; Noé Jiménez; Kestutis Staliunas. "SPIE Optics and Optoelectronics. Holography: Advances and Modern Trends VIII, Prague, Czech Republic. France. 31 May". 12574 - -, pp. 1257407 - 1257407. SPIE, Available on-line at: <<https://doi.org/10.1117/12.2665568>>. ISBN ISBN: 978-84-87985-30-4
- 482 Title of the work:** Strongly focused vortex beams by using flat Fresnel-spiral lenses
Organising entity: Acoustical Society of America
Type of contribution: Scientific book or monograph
Noé Jiménez; Vicent Romero-García; Lluís M. García-Raffi; Francisco Camarena; Kestutis Staliunas. "176th Meeting of the Acoustical Society of America and 2018 Acoustics Week in Canada. Victoria, BC, Canada. 5 - 9 November". 144 - 3, pp. 1932 - 1932. AIP Publishing, Available on-line at: <<https://asa.scitation.org/doi/10.1121/1.5068456>>. ISBN ISSN: 0001-4966
- 483 Title of the work:** Study of aberrations at the focus of an ultrasonic beam due to the propagation across different areas of the skull
Organising entity: Focused Ultrasound Foundation
Type of contribution: Scientific book or monograph
Francisco Camarena; Sergio Jiménez-Gambín; Noé Jiménez; Elisa E. Konofagou. "5th International Symposium on Focused Ultrasound. Maryland, USA. 28 August- 1 September". 4 - 1, pp. 1 - 113. BioMed Central Ltd, Available on-line at: <<https://jtuultrasound.biomedcentral.com/articles/10.1186/s40349-016-0076-5>>.
- 484 Title of the work:** Study of the effect of cranial holes due to emissary veins and inhomogeneities in the thickness of the skull when focusing a transcranial ultrasound beam
Organising entity: International Society for Therapeutic Ultrasound
Type of contribution: Scientific book or monograph
María Cristina Dejoz-Díez; Sergio Jiménez-Gambín; Andrei Marin; Noé Jiménez; Francisco Camarena. "ISTU 2019: 19th International Symposium for Therapeutic Ultrasound. Barcelona, Spain. 13-15 June". - - -, pp. 295 - 295. European Focused Ultrasound Charitable Society, Available on-line at: <->. ISBN ISBN: 978-84-87985-30-4
- 485 Title of the work:** Sub-Diffractive Acoustic Vortices by Nonlinear Mixing
Organising entity: Institute of Electrical and Electronics Engineers
Type of contribution: Scientific book or monograph
Noé Jiménez; Joao Ealo; Ruben Dario Muelas-Hurtado; Aroune Duclos; Vicent Romero-García. "IUS 2021: IEEE International Ultrasonics Symposium. Xi'an, China. 11-16 September". - - -, pp. 1 - 4. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/9593797>>. ISBN ISBN: 978-84-87985-30-4
- 486 Title of the work:** Subwavelength Absorbers and Metasurfaces
Organising entity: Roma Tre University
Type of contribution: Scientific book or monograph

Noé Jiménez. "Modelling of high performance acoustic structures Porous media, metamaterials and sonic crystals. 1st DENORMS CA15125 Workshop. Rome, Italy. 23 - 25 January". - - -, pp. 1 - 1. COST Action Denorms, Available on-line at: <<https://denorms.eu/2017/02/23/workshop1-records/>>.

487 Title of the work: Supersonic solitons and kinks in repulsive lattices

Organising entity: Institute of Physics

Type of contribution: Scientific book or monograph

Juan F.R. Archilla; Yury Kosevich; Noé Jiménez; Víctor Sánchez-Morcillo; Lluís García Raffi. "Lattice Solitons and Irradiation-Induced Nonlinear Phenomena in Solids. Tartu, Estonia. October 31th - November 2nd". - - -, pp. 1 - 1. University of Tartu, Available on-line at: <<http://fii.fi.tartu.ee>>.

488 Title of the work: Surface acoustic waves for the characterization of fruit

Organising entity: Institute National Recherche Agronomique

Type of contribution: Scientific book or monograph

Aroune Duclos; Noé Jiménez; J. P. Groby. "Fruit Structure 2015. Angers, France. 30 November - 01 December". - - -, pp. 1 - 1. INRA, Available on-line at: <<https://colloque.inra.fr/fruitstructure>>.

489 Title of the work: Synchronized Sine-Sweep Imaging for Uncoupling Nonlinear Signatures During Pulse Compression

Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

Nathalie Lamothe; Enrique Manuel González-Mateo; Noé Jiménez; Francisco Camarena. "IUS 2021: IEEE International Ultrasonics Symposium. Xi'an, China. 11-16 September". - - -, pp. 1 - 4. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/9593885>>. ISBN ISBN: 978-84-87985-30-4

490 Title of the work: Synthesizing acoustic drill beams by the superposition of detuned vortices

Organising entity: Acoustical Society of America

Type of contribution: Scientific book or monograph

Noé Jiménez; Enrique M. González-Mateo; Francisco Camarena; Kestutis Staliunas. "182th Meeting of the Acoustical Society of America. Denver, Colorado, USA, 23-27 May". 151 - 4, pp. A121 - A121. AIP Publishing, Available on-line at: <<https://asa.scitation.org/doi/abs/10.1121/10.0010842>>. ISBN ISSN: 0001-4966

491 Title of the work: Tailoring therapeutic ultrasound beams with acoustic holograms

Organising entity: Acoustical Society of America

Type of contribution: Scientific book or monograph

Noé Jiménez. "180th Meeting of the Acoustical Society of America, Acoustics in Focus. Online, 8 - 10 June". 149 - 4, pp. A137 - A137. AIP Publishing, Available on-line at: <->. ISBN ISSN: 0001-4966

492 Title of the work: The Parpalló Cave: A singular archaeological acoustic site

Organising entity: Acoustical Society of America

Type of contribution: Scientific book or monograph

Noé Jiménez Rubén Picó; Javier Redondo. "Acoustics'08: 154th Meeting of the Acoustical Society of America, 5th Forum Acusticum, 9th Congrès Français d'Acoustique, 7th EURONOISE, 9th European Conference on Underwater Acoustics and the 60th anniversary of the Société Française d'Acoustique. Paris, 29 June - 4 July". 123 - -, pp. 3608 - 3608. AIP Publishing, Available on-line at: <<http://webitem.com/acoustics2008/acoustics2008/cd1/data/procs.html>>. ISBN ISSN: 0001-4966

493 Title of the work: Therapeutic ultrasound holograms to target thalamic nuclei through the temporal bone window.

Organising entity: Sociedade Portuguesa de Acústica

Type of contribution: Scientific book or monograph



Diana Andrés; Irene Pi-Martín; Noé Jiménez; Francisco Camarena. "EuroNoise 2021: European Congress and Exposition on Noise Control Engineering. Madeira, Portugal. 24-27 October". - - -, pp. 888 - 893. -, Available on-line at: <<http://www.sea-acustica.es/>>.

494 Title of the work: Thermal patterns generated by acoustic holographic lenses

Organising entity: European Mechanics Society

Type of contribution: Scientific book or monograph

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "EUROMECH Colloquium 610. Emerging topics in acoustic and mechanical metamaterials. Benicassim, Spain. 25-27 April". - - -, pp. 43 - 44. -, Available on-line at: <<https://euomech.org/colloquia/2021/610>>.

495 Title of the work: Thermal patterns generated by ultrasound holograms

Organising entity: Universidad de Murcia

Type of contribution: Scientific book or monograph

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "RSEF 2022: XXXVIII Reunión Bienal de la Real Sociedad Española de Física. Murcia, Spain. 11 - 15 July". - - -, pp. 1 - 1. RSEF, Available on-line at: <<https://www.um.es/fisica/bienal-2022/>>. ISBN ISBN: 978-84-87985-30-4

496 Title of the work: Thigmoimmunity: mechanical signals prime the quantitative disease resistance of plant

Organising entity: Plant Biomechanics Conferences

Type of contribution: Scientific book or monograph

Frédéric Garcia; Ophélie Léger; Rémy Vincent; Aroune Duclos; Noé Jiménez; Eric Badel; Nathalie Leblanc-Fournier; Sylvain Raffaele; Adelin Barbacci. "9th International Plant Biomechanics. PlantBiomech 2018. Montreal, Canada. 9 - 14th August". - - -, McGill University, Available on-line at: <<https://www.plantbiomech2018.com/>>. ISBN ISBN: 978-3-200-05210-9

497 Title of the work: Time-domain simulation of constitutive relations for nonlinear acoustics including relaxation for frequency power law attenuation media modelling

Organising entity: Acoustical Society of America

Type of contribution: Scientific book or monograph

Noé Jiménez; Francisco Camarena; Víctor Sánchez-Morcillo; Javier Redondo; Elisa E. Konofagou. "20th ISNA: 20th International Symposium on Nonlinear Acoustics. Lyon, France. June 19 - July 3rd". 1685 - 1, pp. 070012 1 - 5. AIP Publishing, Available on-line at: <<https://aip.scitation.org/doi/abs/10.1063/1.4934449>>.

498 Title of the work: Tortuous metamaterial for perfect sound absorption in transmission

Organising entity: European Mechanics Society

Type of contribution: Scientific book or monograph

Noé Jiménez; Diana Andrés; Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; José M. Benlloch; Jonathan Vappou; Elisa E. Konofagou; Alicia Carrión-García; Francisco Camarena. "EUROMECH Colloquium 610. Emerging topics in acoustic and mechanical metamaterials. Benicassim, Spain. 25-27 April". - - -, pp. 41 - 42. -, Available on-line at: <<https://euomech.org/colloquia/2021/610>>.

499 Title of the work: Towards quantitative cavitation mapping for transcranial ultrasound holographic therapy

Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

Nathalie Lamothe; Noé Jiménez; Diego Miguez; Alejandro Cebrecos; Francisco Camarena. "Tecnicaústica 2020: 50º Congreso Español de Acústica. XI Congreso Ibérico de Acústica. Faro, Portugal. 21-23 October". - - -, pp. 891 - 902. -, Available on-line at: <<http://www.sea-acustica.es/>>.

500 Title of the work: Toy models for Nonlinear Acoustics

Organising entity: University of Tours

Type of contribution: Scientific book or monograph



Noé Jiménez. "Invited speech at INSA Centre Val de Loire, Blois, France. February 25th". - - -, pp. 1 - 1. -, Available on-line at: <->.

501 Title of the work: Transcranial Propagation with an Ultrasonic Mono-Element Focused Transducer

Organising entity: Ultrasonic Industry Association

Type of contribution: Scientific book or monograph

Pablo C. Iglesias; Noé Jiménez; Elisa Konofagou; Francisco Camarena; Javier Redondo. "UIA 2014: 43rd Annual UIA Symposium. Madrid, Spain. 23 - 25 April". 63 - -, pp. 103 - 107. Elsevier, Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S1875389215000887>>.

502 Title of the work: Transcranial acoustic holograms for arbitrary fields generation using focused ultrasound into the brain

Organising entity: KU Leuven

Type of contribution: Scientific book or monograph

Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena. "ICU 2019: International Congress on Ultrasonics. Bruges, Belgium. 3 - 6 September". - - -, AIP Publishing, Available on-line at: <<https://kuleuvencongres.be/2019icu>>. ISBN ISBN: 978-84-87985-30-4

503 Title of the work: Transcranial focusing of arbitrary ultrasonic fields using acoustic holograms

Organising entity: International Commission for Acoustics

Type of contribution: Scientific book or monograph

Sergio Jiménez-Gambín; Noé Jiménez; Jose M. Benlloch; Francisco Camarena. "ICA 2019: 23rd International Congress on Acoustics. Aachen, Germany. 9-13 September". - - -, pp. 8225 - 8229. German Acoustical Society, Available on-line at: <<https://publications.rwth-aachen.de/record/769790/files/769790.pdf>>. ISBN ISBN: 978-84-87985-30-4

504 Title of the work: Transcranial multifocal acoustic holograms

Organising entity: Focused Ultrasound Foundation

Type of contribution: Scientific book or monograph

Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "7th International Symposium on Focused Ultrasound. Virtual, USA. 9-13 November". 1 - 1, pp. 1 - 2. BioMed Central Ltd, Available on-line at: <<https://jtuultrasound.biomedcentral.com/>>.

505 Title of the work: Transport and preservation of liver in a revolutionary medical device

Organising entity: Transplantation Society

Type of contribution: Scientific book or monograph

Monica Bibiana Jiménez-Castro; Francisco Camarena; María Eugenia Cornide-Petronio; Noé Jiménez; J Gulfo; Al Alvarez-Mercado; Jordi Gracia-Sancho; Carmen Peralta. "TTS 2018: 27th International Congress of The Transplantation Society. Madrid, Spain, June 30th - July 5th". 102 - -, pp. S789 - S789. Wolters Kluwer Health, Inc, Available on-line at: <https://journals.lww.com/transplantjournal/Fulltext/2018/07001/Transport_and_Preservation_of_Liver_in_a.1282.aspx>. ISBN ISSN: 0934-0874

506 Title of the work: Transtemporal Ultrasound Holograms for Thalamic Therapy

Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

Diana Andrés; Noé Jiménez; Francisco Camarena. "IUS 2021: IEEE International Ultrasonics Symposium. Xi'an, China. 11-16 September". - - -, pp. 1 - 4. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/9593685>>. ISBN ISBN: 978-84-87985-30-4

507 Title of the work: Twisting acoustic reflections by spiral sound diffusers

Organising entity: Sociedade Portuguesa de Acústica

Type of contribution: Scientific book or monograph

Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. "EuroNoise 2021: European Congress and Exposition on Noise Control Engineering. Madeira, Portugal. 24-27 October". - - -, pp. 1271 - 1274. -, Available on-line at: <<http://www.sea-acustica.es/>>.

508 Title of the work: Técnicas de holografía acústica para la validación rápida de hologramas acústicos

Organising entity: Sociedad Española de Acústica

Type of contribution: Scientific book or monograph

Noé Jiménez; Alicia Carrión-García; Diana Andrés; Enrique M. González-Mateo; Claudia Hernández-López; Francisco Camarena. "Tecniacústica 2022: 53º Congreso Español de Acústica. XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles. Elche, Spain. 2-4 November". - - -, pp. 924 - 929. -, Available on-line at: <<http://www.sea-acustica.es/fileadmin/Elche22/ID-77.pdf>>.

509 Title of the work: Ultra Thin Acoustic Metamaterial Panels Based on Resonant Bricks for Perfect Absorption

Organising entity: Metamaterials Conferences

Type of contribution: Scientific book or monograph

Noé Jiménez; W. Huang; Jean Philippe Groby; Vincent Pagneux; Vicent Romero-García. "METAMATERIALS 2016: 10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics. Crete, Greece. 17-22 September". - - -, pp. 1 - 3. IEEE, Available on-line at: <<http://congress2016.metamorphose-vi.org/>>.

510 Title of the work: Ultrasonic Hologram for Bi-directional Diffusion by Phase Controlling the Scattering Coefficients

Organising entity: META conferences

Type of contribution: Scientific book or monograph

Eric Ballester; Josep Rodriguez-Sendra; Jean-Philippe Groby; Noé Jiménez; Vicent Romero-García. "META 2024: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics. Toyama, Japan. 16 - 19 July". - - -, pp. 723 - 724. META, Available on-line at: <<https://metaconferences.org/META24/index.php/META/index>>.

511 Title of the work: Ultrasonic Holograms in the Brain

Organising entity: Consejo Superior de Investigaciones Científicas

Type of contribution: Scientific book or monograph

Francisco Camarena; Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch. "MEDAMI 2019: VI Mediterranean Thematic Workshop in Advanced Molecular Imaging. Valencia, Spain. 15-17 May". - - -, pp. 3 - 3. Instituto de Instrumentación para Imagen Molecular, Available on-line at: <<https://www.i3m.upv.es/medami2019/>>. ISBN ISBN: 978-84-87985-30-4

512 Title of the work: Ultrasonic Holograms to Enhance Hyperthermia Volumes

Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "IUS 2021: IEEE International Ultrasonics Symposium. Xi'an, China. 11-16 September". - - -, pp. 1 - 4. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/9593807>>. ISBN ISBN: 978-84-87985-30-4

513 Title of the work: Ultrasonic Monitoring of the Dentin Demineralization Dynamics

Organising entity: Institute of Electrical and Electronics Engineers

Type of contribution: Scientific book or monograph

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- 514 Title of the work:** Ultrasonic evaluation of the hydration degree of the orange peel
Organising entity: Institute National Recherche Agronomique
Type of contribution: Scientific book or monograph
 Noé Jiménez; Francisco Camarena; Rubén Picó; Javier Redondo; Aroune Duclos; J. P. Groby. "Fruit Structure 2015. Angers, France. 30 November - 01 December". - - -, pp. 1 - 1. INRA, Available on-line at: <<https://colloque.inra.fr/fruitstructure>>.
- 515 Title of the work:** Ultrasonic holograms to enhance hyperthermia volumes
Organising entity: Sociedade Portuguesa de Acústica
Type of contribution: Scientific book or monograph
 Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "EuroNoise 2021: European Congress and Exposition on Noise Control Engineering. Madeira, Portugal. 24-27 October". - - -, pp. 894 - 900. -, Available on-line at: <<http://www.sea-acustica.es/>>.
- 516 Title of the work:** Ultrasound holograms to enhance deep-brain neuromodulation
Organising entity: International Transcranial Ultrasonic Stimulation Safety and Standards
Type of contribution: Scientific book or monograph
 Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena; José María Benlloch. "FUN 2021: Focused Ultrasound Neuromodulation. Online. 7-10 September". - - -, ITRUSS, Available on-line at: <->. ISBN ISBN: 978-84-87985-30-4
- 517 Title of the work:** Use of Sonic Crystals for noise mitigation in the launch pad
Organising entity: Young Researchers in Acoustic Metamaterials
Type of contribution: Scientific book or monograph
 Iván Herrero-Durá; Alejandro Cebrecos; Vicent Romero-García; Lluís M García-Raffi; Noé Jiménez; Rubén Picó; Víctor Sánchez-Morcillo. "SAM 2018: Symposium on Acoustic Metamaterials. 5th DENORMS CA15125 Workshop. Xàtiva, Spain. 7 - 9 November". - - -, pp. 26 - 26. YRAM, Available on-line at: <<https://sam-2018.sciencesconf.org/>>. ISBN ISSN: -
- 518 Title of the work:** Vibration modes in a pendulums ring: analogy with gas microbubbles surface modes
Organising entity: Institute of Electrical and Electronics Engineers
Type of contribution: Scientific book or monograph
 Jennifer Chaline; Víctor Sánchez-Morcillo; Noé Jiménez; Ayache Bouakaz; Serge Dos Santos. "IUS 2013: IEEE International Ultrasonics Symposium. Prague, Czech Republic. 21-25 July". - - -, pp. 329 - 332. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/6725055>>.
- 519 Title of the work:** Vortex-sound diffusers using spiral metasurfaces
Organising entity: Metamaterials Conferences
Type of contribution: Scientific book or monograph
 Noé Jiménez; Jean Philippe Groby; Vicent Romero-García. "METAMATERIALS 2018: 12th International Congress on Artificial Materials for Novel Wave Phenomena. Espoo, Finland. Aug. 27th - Sept. 1st". - - -, pp. 194 - 196. IEEE, Available on-line at: <<https://ieeexplore.ieee.org/document/8534047>>. ISBN ISBN: 978-1-5386-4702-8
- 520 Title of the work:** Vortices for biomedical ultrasound applications
Organising entity: Sociedad Española de Acústica
Type of contribution: Scientific book or monograph
 Noé Jiménez; Sergio Jiménez-Gambín; Diana Andrés; Francisco Camarena. "Tecniacústica 2020: 50º Congreso Español de Acústica. XI Congreso Ibérico de Acústica. Faro, Portugal. 21-23 October". - - -, pp. 835 - 842. -, Available on-line at: <<http://www.sea-acustica.es/>>.

- 521 Title of the work:** Vórtices acústicos altamente focalizados mediante espirales de Fresnel
Organising entity: European Acoustics Association
Type of contribution: Scientific book or monograph
Noé Jiménez; Vicent Romero-García; Lluís M. García Raffi; Francisco Camarena; Kestutis Staliunas.
"FIA 2018: 11th Iberoamerican Congress on Acoustics, 10th Iberian congress on acoustics, 49 Congreso Español de Acústica - Tecniacustica 2018. Cádiz, Spain. 26-29 October". 49 - -, pp. 1504 - 1509. Sociedad Española de Física, Available on-line at: <<http://www.sea-acustica.es/index.php?id=801>>. ISBN: 978-84-87985-30-4
- 522 Title of the work:** Vórtices acústicos para medir la elasticidad de tejidos biológicos
Organising entity: Sociedade Portuguesa de Acústica
Type of contribution: Scientific book or monograph
Enrique González-Mateo; Francisco Camarena; Noé Jiménez. "Tecniacústica 2024: 55º Congreso Español de Acústica. XIII Congreso Ibérico de Acústica. Faro, Portugal. 11-13 September". - -, pp. 656 - 660. -, Available on-line at: <http://www.spacustica.pt/acustica2024/pdf/livro_comunicacoes_v5.pdf>.

Works submitted to national or international seminars, workshops and/or courses

- 1 Title of the work:** Metamaterials for therapeutic ultrasound applications
Name of the event: Isaac Newton Institute for Mathematical Sciences- MWSW04: Multiple scattering in engineering and applied sciences
Corresponding author: Yes
Date of event: 22/05/2023
End date: 26/05/2023
Organising entity: University of Cambridge
Noé Jiménez. Available on-line at: <<https://www.newton.ac.uk/seminar/38824/>>.
- 2 Title of the work:** Holographic metasurfaces for the new generation of biomedical ultrasound applications
Name of the event: Meta-Mat Seminars: Season 3
Corresponding author: Yes
City of event: London, United Kingdom
Date of event: 13/12/2022
End date: 13/12/2022
Organising entity: Imperial College London
Type of entity: University
Noé Jiménez.
DOI: 10.52843/meta-mat.h6yyqy

Science Outreach activities

- 1 Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions
City of event: Banyoles, Spain
Date of event: 20/09/2024
Organising entity: Obra Social Fundación la Caixa
Type of entity: Foundation
Noé Jiménez.
- 2 Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions



City of event: Barcelona, Spain

Date of event: 15/01/2024

Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.

3 Title of the work: Ultrasons - de la Natura a la Medicina

Name of the event: CosmoCaixa

Type of event: Fairs and exhibitions

City of event: Granollers, Spain

Date of event: 01/09/2023

Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.

4 Title of the work: Ultrasons - de la Natura a la Medicina

Name of the event: CosmoCaixa

Type of event: Fairs and exhibitions

City of event: Barcelona, Spain

Date of event: 27/12/2021

Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.

5 Title of the work: Metamaterials for audible regime

Name of the event: Acoustics and beyond exhibition

Type of event: Fairs and exhibitions

Corresponding author: Yes

City of event: Coimbra, Portugal

Date of event: 21/02/2020

Organising entity: Science Museum of the University of Coimbra **Type of entity:** University
N. Jiménez.

6 Title of the work: L'acoustique au Mans

Name of the event: Nuit Européenne des chercheurs 2017

Type of event: Fairs and exhibitions

City of event: Le Mans, France

Date of event: 29/09/2017

Organising entity: Université du Mans **Type of entity:** University
Noé Jiménez.

7 Title of the work: Les metamateriaux acoustiques

Name of the event: Nuit Européenne des chercheurs 2016

Type of event: Fairs and exhibitions

City of event: Le Mans, France

Date of event: 30/09/2016

Organising entity: Université du Mans **Type of entity:** University
Noé Jiménez.

8 Title of the work: Toy models for nonlinear acoustics

Name of the event: Invited speech at INSA Centre Val de Loire

Type of event: Conferences given

Corresponding author: Yes



City of event: Blois, France

Date of event: 25/02/2015

Organising entity: Université de Tours
Noé Jiménez.

Type of entity: University

9 **Title of the work:** Audio 3D y acústica virtual
Name of the event: Semana de la ciencia 2012
Type of event: Fairs and exhibitions
City of event: Gandía, Valencian Community, Spain
Date of event: 15/05/2012
Organising entity: Universitat Politècnica de València
Noé Jiménez González.

Type of entity: University

10 **Title of the work:** Taller de Acústica Virtual
Name of the event: Semana de la ciencia 2011
Type of event: Fairs and exhibitions
City of event: Gandía, Valencian Community, Spain
Date of event: 01/05/2011
Organising entity: Universitat Politècnica de València
Noé Jiménez González.

Type of entity: University

R&D management and participation in scientific committees

Organization of R&D activities

1 **Title of the activity:** 2025 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee
City of event: Utrecht, Holland
Convening entity: Institute of Electrical and Electronics Engineers (IEEE)
Type of participation: Organiser
Start-End date: 15/09/2025 - 18/09/2025

Geographical area: Non EU International

Type of entity: Associations and Groups

2 **Title of the activity:** Forum Acusticum Euronoise 2025
Type of activity: Organising Committee
City of event: Malaga, Spain
Convening entity: European Acoustics Association
Type of participation: Organiser
Start-End date: 23/06/2025 - 26/06/2025

Geographical area: European Union

3 **Title of the activity:** XIII Congreso Iberoamericano de Acústica: FIA 2024
Type of activity: Scientific Committee
City of event: Santiago de Chile, Chile
Convening entity: Federación Iberoamericana de Acústica
Type of participation: Organiser
Start-End date: 02/12/2024 - 04/12/2024

Geographical area: Non EU International



- 4** **Title of the activity:** 2024 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Taipei, Taiwan
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 22/09/2024 - 26/09/2024
- 5** **Title of the activity:** ACÚSTICA2024 55 Congreso Español de Acústica -Tecniacústica 2024 / XIII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Faro, Portugal
Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 11/09/2024 - 13/09/2024
- 6** **Title of the activity:** 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Toyama, Japan
Convening entity: META Conferences
Type of participation: Organiser
Nº assistants: 1.500
Start-End date: 18/07/2024 - 21/07/2024
- 7** **Title of the activity:** 54 Congreso Español de Acústica -Tecniacústica 2023 / XIII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Cuenca, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 18/10/2023 - 20/10/2023
- 8** **Title of the activity:** 2023 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Montreal, Canada
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 03/09/2023 - 07/09/2023
- 9** **Title of the activity:** 13th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Paris, France
Convening entity: META Conferences
Type of participation: Organiser
Nº assistants: 1.500
Start-End date: 18/07/2023 - 21/07/2023



- 10 Title of the activity:** 2022 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Venice, Italy
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 10/10/2022 - 13/10/2022
- 11 Title of the activity:** 53 Congreso Español de Acústica -Tecniacústica 2022 / XII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Elche, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 02/10/2022 - 04/10/2022
- 12 Title of the activity:** 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Torremolinos, Spain
Convening entity: META Conferences
Type of participation: Organiser
Nº assistants: 1.500
Start-End date: 19/07/2022 - 22/07/2022
- 13 Title of the activity:** European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of activity: Organizing Committee (Special Session) **Geographical area:** European Union
City of event: Madeira, Portugal
Convening entity: Sociedade Portuguesa de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 25/10/2021 - 27/10/2021
- 14 Title of the activity:** 21th International Symposium on Nonlinear Acoustics (ISNA)
Type of activity: Conference **Geographical area:** Non EU International
City of event: Santa Fe, United States of America
Convening entity: Acoustical Society of America **Type of entity:** Associations and Groups
Type of participation: Session chairman
Nº assistants: 500
Start-End date: 09/07/2018 - 13/07/2018 **Duration:** 4 days
- 15 Title of the activity:** 48 Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible
Type of activity: Conference **Geographical area:** Non EU International
City of event: La Coruña, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Foundation
Type of participation: Session chairman
Nº assistants: 300
Start-End date: 04/10/2017 - 06/10/2017 **Duration:** 3 days



- 16** **Title of the activity:** Quodons in mica: nonlinear localized travelling excitations in crystals
Type of activity: Congreso **Geographical area:** Non EU International
City of event: Altea, Spain
Convening entity: Universitat Politècnica de València **Type of entity:** University
Type of participation: Organiser
Nº assistants: 30
Start-End date: 18/09/2013 - 21/09/2013 **Duration:** 3 days
- 17** **Title of the activity:** Tecniacustica 2011 - 42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible
Type of activity: Congreso **Geographical area:** European Union
City of event: Cáceres, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Foundation
Type of participation: Session chairman
Nº assistants: 300
Start-End date: 26/10/2011 - 29/10/2011 **Duration:** 3 days

R&D management

Name of the activity: Principal Investigator
Type of management: Management of R&D&I actions and projects
Performed tasks: Principal Investigator of 11 funded projects
Entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Start date: 01/01/2018 **Duration:** 6 years

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Guest editor
Performed tasks: Guest Editor at Frontiers In Mechanical Engineering (ISSN: 2095-0233)
Entity where activity was carried out: Frontiers Editorial
City of entity: Lausanne, Switzerland
Type of activity: Participation in editorial committees **Frequency of the activity:** 1
Start date: 01/05/2019
- 2** **Name of the activity:** Referee of research paper
Performed tasks: Referee at Frontiers in Materials (ISSN: 2296-8016)
Entity where activity was carried out: Frontiers Editorial
City of entity: Lausanne, Switzerland
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 01/02/2019
- 3** **Name of the activity:** Special Issue "Advanced Ultrasound Technology for Medical Application"
Performed tasks: Guest Editor at "Applied Sciences (Switzerland)" (ISSN 2076-3417) IF:1.86, Q2 (2017)
Entity where activity was carried out: MDPI Publishing **Type of entity:** Business
City of entity: Basel, Switzerland



Type of activity: Participation in editorial committees

Start date: 01/01/2019

- 4** **Name of the activity:** Special Issue "Recent Advances in Phononic Crystals and Metamaterials"
Performed tasks: Guest Editor at "Applied Sciences (Switzerland)" (ISSN 2076-3417) IF:1.86, Q2 (2017)
Entity where activity was carried out: MDPI Publishing **Type of entity:** Business
City of entity: Basel, Switzerland
Type of activity: Participation in editorial committees
Start date: 01/10/2018
- 5** **Performed tasks:** Referee of Applied Sciences (Switzerland) (ISSN 2076-3417)
Entity where activity was carried out: MDPI Publishing
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 2
Start date: 05/04/2018
- 6** **Performed tasks:** Referee of Ultrasonics (ISSN: 0041-624X)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 2018
- 7** **Performed tasks:** Referee of the Journal de the Acoustical Society of America (ISSN: 0001-4966)
Entity where activity was carried out: American Institute of Physics Publishing
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 2018
- 8** **Performed tasks:** Referee of Acta Acustica united with Acustica (ISSN: 1861-9959)
Entity where activity was carried out: European Acoustics Association (EAA)
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 2
Start date: 2017
- 9** **Performed tasks:** Referee of Applied Physics Letters (ISSN: 1077-3118)
Entity where activity was carried out: American Physics Society
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 2
Start date: 2017
- 10** **Performed tasks:** Referee of Journal of Applied Physics (ISSN: 0021-8979)
Entity where activity was carried out: American Institute of Physics Publishing
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 2017
- 11** **Performed tasks:** Referee of Journal of Marine Science and Engineering (ISSN 2077-1312)
Entity where activity was carried out: MDPI editorial
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 2017



- 12** **Performed tasks:** Referee of Materials (ISSN 1996-1944)
Entity where activity was carried out: MDPI editorial
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 13** **Performed tasks:** Referee of Results in Physics (ISSN: 2211-3797)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 14** **Performed tasks:** Referee of Scientific Reports (ISSN: 2045-2322)
Entity where activity was carried out: Nature Publishing Group
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2017
- 15** **Performed tasks:** Referee of IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (ISSN: 1525-8955)
Entity where activity was carried out: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2016
- 16** **Performed tasks:** Referee of Physics Letters A (ISSN: 0375-9601)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2016
- 17** **Performed tasks:** Referee of Advances in Applied Acoustics (AIAAS) (ISSN: 2325-7032)
Entity where activity was carried out: Science and Engineering Publishing
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2014

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Mans
City of entity: Le Mans, France
Start-End date: 08/01/2019 - 13/04/2019 **Duration:** 3 months
Goals of the stay: Post-doctoral
Provable tasks: Structured acoustic media for biomedical applications
- 2** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Mans
City of entity: Le Mans, France
Start-End date: 01/12/2017 - 31/08/2017 **Duration:** 9 months
Goals of the stay: Post-doctoral
Provable tasks: Vortex metamaterials for biomedical applications
- 3** **Entity:** Centre National de la Recherche Scientifique (CNRS) **Type of entity:** State agency
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Maine (UMR6613 CNRS)
City of entity: Le Mans, France
Start-End date: 01/09/2015 - 31/08/2017 **Duration:** 24 months
Goals of the stay: Post-doctoral
Provable tasks: Acoustic Metamaterials in the Audible Range
- 4** **Entity:** University of Salford **Type of entity:** University
Faculty, institute or centre: Acoustic research group
City of entity: Manchester, Greater Manchester, United Kingdom
Start-End date: 01/10/2016 - 02/12/2016 **Duration:** 2 months
Goals of the stay: Post-doctoral
Provable tasks: Development of deep-subwavelength sound difusers
- 5** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de l'Université du Maine
City of entity: Le Mans, France
Start-End date: 16/06/2014 - 18/06/2014 **Duration:** 3 days
Goals of the stay: Doctorate
Provable tasks: Nonlinear wave propagation in period media
- 6** **Entity:** Columbia University **Type of entity:** University
Faculty, institute or centre: Ultrasound and Elasticity Imaging Laboratory
City of entity: New York City, United States of America
Start-End date: 21/03/2012 - 22/06/2012 **Duration:** 3 months
Goals of the stay: Doctorate
Provable tasks: Part-time staff associate / Research collaborator

Obtained grants and scholarships

- 1** **Name of the grant:** Juan de La Cierva - Incorporación (IJC2018-037897-I)
Aims: Post-doctoral
Awarding entity: Spanish Ministry of Economy, Industry and Competitiveness
Amount of the grant: 93.000 €
Conferral date: 02/09/2019
End date: 31/12/2022
Duration: 3 years
Type of entity: State agency
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas (CSIC)
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 2** **Name of the grant:** Subvenciones para la contratación de personal investigador en fase postdoctoral (APOSTD/2017/042)
City awarding entity: Valencia,
Aims: Post-doctoral
Awarding entity: Generalitat Valenciana
Amount of the grant: 93.469 €
Conferral date: 16/09/2017
End date: 16/09/2019
Duration: 2 years
Type of entity: State agency
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 3** **Name of the grant:** Juan de La Cierva - Formación (FJCI-2016-29430)
Aims: Post-doctoral
Awarding entity: Spanish Ministry of Economy, Industry and Competitiveness
Amount of the grant: 50.000 €
Conferral date: 19/07/2017
End date: 19/07/2018
Duration: 2 years
Type of entity: State agency
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas (CSIC)
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 4** **Name of the grant:** STSM grant - COST Action DENORMS CA15125
Aims: Post-doctoral
Awarding entity: COST (European Cooperation in Science and Technology)
Amount of the grant: 5.000 €
Conferral date: 15/10/2016
End date: 01/12/2016
Duration: 1 month - 45 days
Type of entity: Public Research Body
Entity where activity was carried out: University of Salford
- 5** **Name of the grant:** DENORMS Action Training on Sound waves in metamaterials and porous media
City awarding entity: Prague, Czech Republic
Aims: Post-doctoral
Awarding entity: COST (European Cooperation in Science and Technology)
Amount of the grant: 500 €
Conferral date: 26/09/2016
End date: 30/09/2016
Duration: 4 days



Entity where activity was carried out: Czech Technical University

6 Name of the grant: Formación de Personal Investigador (FPI-002-322)

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 20.000 €

Conferral date: 01/11/2011

Duration: 4 years

End date: 01/11/2015

7 Name of the grant: Travel Grant for Young European acoustician: Tecniacustica 13

Aims: Congreso

Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups

Amount of the grant: 500 €

Conferral date: 20/10/2013

Duration: 4 days

End date: 25/10/2013

8 Name of the grant: Acciones Especiales de I+D+i (PAID-08-11-002-232)

City awarding entity: New York City, NY, United States of America

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 10.000 €

Conferral date: 10/11/2011

Duration: 3 months

End date: 10/06/2012

9 Name of the grant: Beca de Excelencia (002-1169)

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 12.500 €

Conferral date: 01/01/2011

Duration: 1 year

End date: 24/12/2011

10 Name of the grant: Beca de Especialización (2010-0062)

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 8.500 €

Conferral date: 01/06/2010

Duration: 8 months

End date: 30/12/2010

11 Name of the grant: Beca de Colaboración (2010-0032)

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 3.000 €

Conferral date: 01/02/2010

Duration: 4 months

End date: 31/05/2010

12 Name of the grant: Beca de Colaboración (2008-1183)

Aims: Pre-doctoral

Awarding entity: Universitat Politècnica de València **Type of entity:** University

Amount of the grant: 7.500 €

Conferral date: 01/05/2009

Duration: 10 months

End date: 01/03/2010



- 13 Name of the grant:** Travel Grant for Young European acoustician: Tecniacustica 09
Aims: Congreso
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Amount of the grant: 500 €
Conferral date: 20/09/2009 **Duration:** 3 days
End date: 25/09/2009
- 14 Name of the grant:** Ramón y Cajal (RYC2021-034920-I)
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación **Type of entity:** Estatal
Amount of the grant: 380.000 €
Conferral date: 07/07/2022 **Duration:** 5 years
Entity where activity was carried out: Universitat Politècnica de València

Scientific societies and professional associations

- 1 Name of the society:** International Society for Therapeutic Ultrasound
Affiliation entity: International Society for Therapeutic Ultrasound **Type of entity:** Associations and Groups
City affiliation entity: Seattle, United States of America
Start date: 04/07/2022
- 2 Name of the society:** IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
Affiliation entity: IEEE (Institute of Electrical and Electronics Engineers) Society
City affiliation entity: New York, United States of America
Start date: 12/03/2021
- 3 Name of the society:** Sociedad Española de Acústica
Affiliation entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Spain
Start date: 26/02/2021
- 4 Name of the society:** European Focused Ultrasound Charitable Society
Affiliation entity: European Focused Ultrasound Charitable Society **Type of entity:** Associations and Groups
City affiliation entity: Niedernhausen, Germany
Professional category: Member
Start date: 12/06/2019
- 5 Name of the society:** Acoustical Society of America
Affiliation entity: Acoustical Society of America **Type of entity:** Associations and Groups
Professional category: Associate Member
Start date: 16/01/2017
- 6 Name of the society:** COST action DENORMS (Designs for Noise Reducing Materials and Structures), CA5125
Affiliation entity: European Cooperation in Science and Technology **Type of entity:** Public Research Body
Professional category: Partner



Start date: 09/03/2016

Prizes, mentions and distinctions

- 1** **Description:** Premio a la Publicación Excelente de Investigación 2025, Ciencias Naturales
Awarding entity: Universitat Politècnica de València **Type of entity:** University
City awarding entity: Valencia, Valencian Community, Spain
Conferral date: 04/11/2025
- 2** **Description:** Luis de Camoens award (as PhD survivor of Irene Pi-Martín)
Awarding entity: Universidad Carlos III de Madrid, Banco de Santander y Fundación Ramón Areces **Type of entity:** University Centres and Structures and Associated Bodies
City awarding entity: Madeira, Portugal
Conferral date: 27/10/2021
- 3** **Description:** Andrés Lara Award 2020. First prize, (as PhD advisor of Sergio Jiménez-Gambín and Diana Andrés)
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: Faro, Portugal
Conferral date: 26/10/2020
- 4** **Description:** Early career award. Young doctors category
Awarding entity: Real Sociedad Española de Física **Type of entity:** Associations and Groups
City awarding entity: Zaragoza, Spain
Conferral date: 20/06/2019
Recognition linked: The award was attributed for the work "Focused ultrasound beyond phased-arrays: acoustic holographic lenses enable transcranial focusing of arbitrary fields at the central nervous system"
- 5** **Description:** Luis de Camoens award (as PhD survivor of Sergio Jiménez-Gambín)
Awarding entity: Universidad Carlos III de Madrid, Banco de Santander y Fundación Ramón Areces **Type of entity:** University Centres and Structures and Associated Bodies
City awarding entity: Cádiz, Spain
Conferral date: 24/10/2018
- 6** **Description:** 1st Place, Best Poster Award at Symposium of Acoustic and Poroelastic Materials (SAPEM 2017)
Awarding entity: Société Française d'Acoustique **Type of entity:** Associations and Groups
City awarding entity: Le Mans, France
Conferral date: 08/12/2017
Recognition linked: The award was attributed for the scientific quality, structure and organisation of the presentation entitled "On the conditions for perfect absorption of sound by rigidly backed layers of porous materials"
- 7** **Description:** Extraordinary PhD thesis award (Premio extraordinario de doctorado)
Awarding entity: Universitat Politècnica de València **Type of entity:** University
City awarding entity: Valencia, Spain
Conferral date: 23/05/2017
Recognition linked: The extraordinary PhD thesis price is given to the best thesis in 2017, concerning the number of papers and the impact of the research on "Nonlinear acoustic waves in complex media"



- 8** **Description:** 1st Place, Phononics 2015 EPS Best Student Poster Presentation Award, at Third International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Phonon Coupling (Phononics 2015)
Awarding entity: European Physical Society **Type of entity:** Associations and Groups
City awarding entity: Paris, France
Conferral date: 31/05/2015
Recognition linked: This recognition was attributed to the work entitled "Efficient Second Harmonic Generation of Narrow Beams in 2D Sonic Crystals"
- 9** **Description:** National Prize of Acoustics: Andrés Lara award 2011 for young researchers
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 10/10/2011
Recognition linked: This recognition was given by the Spanish Society of Acoustics to the best research work in 2011
- 10** **Description:** Excellence grant for the best graduate record
Awarding entity: Universitat Politècnica de València **Type of entity:** University
Conferral date: 01/01/2011
- 11** **Description:** Andrés Lara Award 2010 for young researchers. (Co-author with Silvia Adrian)
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: León, Spain
Conferral date: 13/10/2010

Periods of research activity and knowledge transfer

- 1** **Name of the action:** Five-year teaching evaluation
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State agency
Date of recognition: 07/11/2025
Six-year period of active research: Yes
Type of activity: Teaching
Score observed: Valoración positiva
Starting year: 2020
Completion date: 2024
Evaluation period: 2020, 2021, 2022, 2023, 2024
Call year: 2024
- 2** **Name of the action:** Five-year teaching evaluation
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State agency
Date of recognition: 21/11/2024
Six-year period of active research: Yes
Type of activity: Teaching
Score observed: Valoración positiva
Starting year: 2010
Completion date: 2014
Evaluation period: 2010, 2011, 2012, 2013, 2014, 2015
Call year: 2024



- 3** **Name of the action:** Five-year teaching evaluation
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State agency
Date of recognition: 21/11/2024
Six-year period of active research: Yes
Type of activity: Teaching
Score observed: Valoración positiva
Starting year: 2015
Completion date: 2019
Evaluation period: 2015, 2016, 2017, 2018, 2019
Call year: 2024
- 4** **Name of the action:** CNEAI Six-year research evaluation
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State agency
Date of recognition: 23/05/2022
Six-year period of active research: Yes
Type of activity: Research
Score observed: Valoración positiva
Starting year: 2010
Completion date: 2015
Evaluation period: 2010, 2011, 2012, 2013, 2014, 2015
Call year: 2021
- 5** **Name of the action:** CNEAI Six-year research evaluation
Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State agency
Date of recognition: 23/05/2022
Six-year period of active research: Yes
Type of activity: Research
Score observed: Valoración positiva
Starting year: 2016
Completion date: 2021
Evaluation period: 2016, 2017, 2018, 2019, 2020, 2021
Call year: 2021

Obtained accreditations/recognitions

- 1** **Description:** 2 Quinquenios de Investigación reconocidos
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State Agency
Nº of recognized periods: 2
Date of reception: 24/10/2024 **Date of recognition:** 24/10/2024
- 2** **Description:** Acreditación Cuerpo Profesor Titular de Universidad
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State Agency
Date of recognition: 21/07/2023



3 **Description:** Acreditación i3 - Investigador distinguido (Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora)

Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Estatal de la Calidad y Acreditación

Date of recognition: 07/11/2022

4 **Description:** 2 Sexenios (Tramos) de Investigación reconocidos

Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Estatal de la Calidad y Acreditación

Nº of recognized periods: 2

Date of reception: 25/05/2022

Date of recognition: 24/05/2022