

TEMAS DE TRABAJO FIN DE MÁSTER - Curso 2026-2027

	PROFESOR/A tutor/a	Título del trabajo fin de máster
1	José Vicente Ros Lis	Nanomaterials, sensors and sustainability I
2	José Vicente Ros Lis	Nanomaterials, sensors and sustainability II
3	José Manuel Herrero Martínez Jorge González García	Development of aptasensors for sensing allergens and hazardous compounds
4	M ^a Jesús Lerma Jorge González García	Determination of toxins in foods using aptamer technology in combination with optical probes
5	M ^a Luisa Cervera Sanz Ángel Morales Rubio	Analysis of archaeological bones
6	M ^a Luisa Cervera Sanz Sergio Armenta	Development of a fluorescence-based device for synthetic cannabinoid determination
7	M ^a Luisa Cervera Sanz Ángel Morales Rubio	Evaluation of tomato ripeness stage using non-destructive techniques
8	M ^a Luisa Cervera Sanz Sergio Armenta	Development of optical sensors for the analysis of contaminants
9	Jesús Ferrando Sergio Armenta	Metal-organic framework technologies for environmental applications
10	Jorge González García David Pérez Guaita	Application of nano-ir/raman spectroscopy and microscopy for investigating mechanisms of action of drugs
11	Carlos Martí Gastaldo	Metal-Organic Frameworks as Stationary Phases for the HPLC Separation of Aromatic Compounds
12	Carlos Martí Gastaldo	Computational Screening of Metal-Organic Frameworks for the Selective Recognition of Industrially Relevant Isomers
13	Alberto Chisvert Juan Luis Benedé	Development of an analytical method for safrrole determination in cosmetic products
14	Juan Luis Benedé Alberto Chisvert	Determination of biomarkers in saliva by microextraction techniques
15	María José Ruiz Ángel Juan Peris Vicente	Sustainable chromatographic methods for pharmaceutical analysis
16	María José Ruiz Ángel Juan Peris Vicente	Mobile phase modifiers in liquid chromatography
17	José Ramón Torres Lapasió	Analysis of medicinal plant extracts using generalised retention models in liquid chromatography
18	Jesús Ferrando Soria Emilio Pardo Marín	Metal-Organic Framework Technologies as Chemical Nanoreactors
19	Jesús Ferrando Soria Mónica Giménez Marqués	Biomaterials-Based on Metal-Organic Frameworks

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20	Yolanda Moliner Martínez Lorenzo San Juan Navarro	New strategies for the direct analysis using DART-mass spectrometry
21	Lorenzo San Juan Navarro Yolanda Moliner Martínez	Assessment of micro/nanoparticles using separation techniques
22	Carmen Molins Legua Neus Jornet Martínez	Colorimetric sensors
23	Rosa Herráez Hernández Neus Jornet Martínez	Development of films for the colorimetric analysis of amphetamines
24	Carmen Molins Legua	Extraction and physicochemical characterization of nanovesicles
25	David Pérez Guaita Francesc Esteve Turrillas	Identification of the metabolism of new psychoactive substances using LC-HRMS
26	Daniel Gallart Mateu Francesc Esteve Turrillas	Identification of organic biomarkers in archaeological samples
27	Olga Pardo Marín	Determination of micotoxins in foodstuffs
28	Olga Pardo Marín David Pérez Guaita	Determination of emerging natural toxins in food of plant origin
29	Roberto Sáez Hernández	Generative artificial intelligence applied to chemometrics: evaluation of LLM models for code generation in chemical data analysis
30	Francesc Esteve Turrillas	Development of in vitro and in silico PUFA oxidation models for the multimodal characterization of oxidized lipid products
31	Enrique Javier Carrasco Correa	Next-generation biomimetic membrane-based platforms: integrating dynamic flow for the prediction of pharmacokinetic parameters
32	Enrique Javier Carrasco Correa	Light-regulated smart materials based on azobenzene-functionalized polymers for reversible analytes extraction
33	Miriam Beneito Cambra	MOF-functionalized 3D-printed stir towers for the extraction of emerging contaminants from aqueous matrices
34	María Jesús Lerma García	Aptamer-functionalized cellulose substrates for selective extraction of emerging contaminants
35	María Vergara Barberán	Aptamer-modified 3D-printed platforms for the selective isolation of emerging water pollutants
36	Héctor Martínez Pérez-Cejuela José Manuel Herrero Martínez	Development of MOF@enzyme sensors in sustainable supports
37	Héctor Martínez Pérez-Cejuela Emilio Pardo Marín	Biological metal-organic frameworks for biomolecules separation
38	Isabel Ten Doménech	Aptamer-based platforms for the selective isolation of extracellular vesicles

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39	Ernesto Francisco Simó Alfonso	Determination of allergenic proteins in honeys using selective recognition systems
40	Ernesto Francisco Simó Alfonso	Use of aptasensors for the determination of allergenic proteins in legumes
41	José Manuel Herrero Martínez	Determination of emerging contaminants present in saliva
42	Estefanía Delgado Pinar Jorge González García	Engineering redox-responsive mesoporous organosilica nanocarriers
43	Yolanda Martin Biosca Salvador Sagrado Vives	Evaluation of Complementary Selectivity among Macrocyclic Antibiotic-Based Chiral Stationary Phases for Enantioseparation
44	M ^a José Medina Hernández Salvador Sagrado Vives	Enantioseparation of Chiral Compounds in Liquid Chromatography using a Ristocetin A Stationary Phase