

Curriculum Vitae

- Name:** Guillermo MINGUEZ ESPALLARGAS **Date of birth:** 6th December 1981, Seville, Spain.
- Email :** guillermo.minguez@uv.es **Website URL:** <http://www.uv.es/guimines>
- Current Position:** “Juan de la Cierva” researcher at the Institute of Molecular Science (ICMol) of the University of Valencia (Spain) investigating the design and properties of multi-functional materials (from Jan. 2009).
- University Education:**
- Licenciado en Ciencias Químicas (Degree in Chemistry, June 2004) at the University of Seville; awarded First Class with Honours (98 %).
 - PhD in Solid State Chemistry (Nov. 2007) at the University of Sheffield (UK) under the supervision of Prof. Lee Brammer: “Solid state supramolecular chemistry involving halogens: interactions and reactions”.
 - Post-doc at the University of Sheffield (UK) with Prof. Lee Brammer studying solid-gas reactivity (Dec. 2007 – May 2008).
 - Post-doc at the Institute of Molecular Science of the University of Valencia (Spain) with Prof. Eugenio Coronado studying multi-functional materials (Sep. 2008 – Dec. 2008)
- Teaching experience:**
- Selected by the Department of Chemistry of the University of Sheffield as tutor for the Level 2 Inorganic Chemistry courses in 2006/07 and 2007/08.
 - Postgraduate demonstrator of the Level 3 Crystallographic practical classes in 2005/06.
 - Supervisor of Master students in their final year projects in 2005/06, 2006/07 and 2007/08.
- Selected Publications:**
- **Effects of halogen bonding in ferromagnetic chains based on Co(II) coordination polymers.** J. M. Clemente-Juan, E. Coronado, G. Minguez Espallargas, H. Adams, L. Brammer. *CrystEngComm* **2010**, *12*, 2339–2342 (*Special Issue: “New Talents”*).
 - **Combining metals with halogen bonds.** L. Brammer, G. Minguez Espallargas, S. Libri *CrystEngComm*, **2008**, *10*, 1712 (Highlight: CEC 10th birthday issue).
 - **Non-covalent interactions under extreme conditions: high pressure and low temperature diffraction studies of the isostructural metal-organic networks (4-chloropyridinium)₂[CoX₄] (X = Cl, Br).** G. Minguez Espallargas, L. Brammer, D. R. Allan, C. R. Pulham, N. Robertson, J. E. Warren. *J. Am. Chem. Soc.* **2008**, *130*, 9058.
 - **Ligand substitution within non-porous crystals of a coordination polymer: elimination from and insertion into Ag–O bonds by alcohol molecules in a solid-vapor reaction.** S. Libri, M. Mahler, G. Minguez Espallargas, D. C. N. G. Singh, J. Soleimannejad, H. Adams, M. D. Burgard, N. P. Rath, M. Brunelli, L. Brammer. *Angew. Chem. Int. Ed.* **2008**, *47*, 1693.
 - **Reversible gas uptake by a non-porous crystalline solid involving multiple changes in covalent bonding.** G. Minguez Espallargas, M. Hippler, A. J. Florence, P. Fernandes, J. van de Streek, M. Brunelli, W. I. F. David, K. Shankland, L. Brammer. *J. Am. Chem. Soc.* **2007**, *129*, 15606.
 - **Ligand Flexibility and Framework Rearrangement in a New Family of Porous Metal-Organic Frameworks.** S. M. Hawxwell, G. Minguez Espallargas, D. Bradshaw, M. J. Rosseinsky, T. J. Prior, A. J. Florence, J. van de Streek, L. Brammer. *Chem. Commun.* **2007**, 1532. Selected as “hot paper” in *Chem. Commun.*; featured in *RSC Chemical Science* 2007, issue 5.
 - **Reversible extrusion and uptake of HCl molecules by crystalline solids involving coordination bond cleavage and formation.** G. Minguez Espallargas, L. Brammer, J. van de Streek, K. Shankland, A. J. Florence, H. Adams. *J. Am. Chem. Soc.* **2006**, *128*, 9584. Selected as the Editor’s choice weekly highlight for Chemistry: *Science*, **2006**, *313*, 411.
 - **Designing intermolecular interactions between halogenated peripheries of inorganic and organic molecules: electrostatically directed M–X⁺–X⁻–C halogen bonds.** G. Minguez Espallargas, L. Brammer, P. Sherwood. *Angew. Chem. Int. Ed.* **2006**, *45*, 435.
- Other publications include 8 research articles (1 front cover) and 4 chapters in books.
- Awards:**
- **Dalton Young Chemist Award 2009** winner.
 - Gold Medal at the **2008 European Young Chemist** award (PhD level), presented at the 2nd EuCheMS Chemistry Congress in Torino (Italy) in Sep. 2008.
 - **Ludo Frevel Crystallographic** award, International Center for Diffraction Data, 2006-07.
 - Second position in the “**Premio Extraordinario Nacional Fin de Carrera**” Spanish national award to the best graded 1999–2004 Chemistry Master’s student.
 - “**San Alberto Magno**” award, “**Real Maestranza de Caballería**” award, “**Ayuntamiento de Sevilla**” award and “**Premio Extraordinario Fin de Carrera**” award to the best graded 1999–2004 Chemistry Master’s student by the University of Seville.
 - RSC *CrystEngComm* Poster Prize, British Crystallographic Association Meeting, 2006.
- Oral presentations:**
- Several oral contributions in international conferences including invited speaker at the **XXI IUCr Conference** in Osaka (Japan) in Aug. 2008 and at **MISCA 2010**, Oviedo (Spain) in June 2010.