

## Inhar Imaz

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### Summary

Inhar Imaz received his PhD in Materials Science from the Université Bordeaux I in 2005, where he studied the formation of heterometallic metal–organic architectures from tetrahedral building blocks. He joined the CIN-2 (ICN-CSIC) centre in 2005 as a Postdoctoral fellow. At present, he is senior researcher at the Catalan Institute of Nanoscience and Nanotechnology (ICN2). His research interests are focused on controlling the supramolecular assembly of molecules, metal ions and nanoscale building blocks at the macro and nanoscale for the design of novel metal–organic frameworks and functional supramolecular architectures with interesting properties and applications in gas storage, catalysis, etc He is also implicated in different projects with industrial partners that aim to scale up the synthesis of metal-organic frameworks for several applications such as natural gas storage or water chilling systems.

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### Expertise

Metal Organic frameworks, supramolecular chemistry, crystallography, nanoparticles, adsorption properties, catalysis....

## Scientific production



Citations	h	Publications in Q1	Publications in D1
2321	23	66	30

1. Civan Avci; Inhar Imaz; A Carné Sánchez; José Angel Pariente; Javier Pérez Carvajal; Nikos Tasios; Maria Isabel Alonsos; Alvaro Blanc; Marjolein Dijkstra; Cefe Lopez; Daniel Maspocho. **Self-assembly of polyhedral metal–organic framework particles into three-dimensional ordered superstructures.** *Nature Chemistry*. Springer Nature. DOI: 10.1038/nchem.2875
2. Claudia Orellana Trava; Salame Haddad; Ross J Marshall; Isabel Abánades Lázaro; Gerard Boix; Inhar Imaz; Daniel Maspocho; Ross S Forgan; David Fairen Jiménez. **Tuning the Endocytosis Mechanism of Zr-Based Metal– Organic Frameworks through Linker Functionalization.** *ACS applied materials & interfaces*. 9 - 41
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5. Amirali Yazdi; Ahmed Abo Makeb; Luis Garzón Tovar; Javier Patarroyo; Javier Moral Vico; Amanda Alonso; Antoni Sanchez; Neus G BASTUS; Inhar Imaz; Xavier Font; Victor Puentes; Daniel Maspocho. **Core-shell Au/CeO<sub>2</sub> nanoparticles supported in UiO-66 beads exhibiting full CO conversion at 100° C.** *Journal of Materials Chemistry A*. 2017.
6. Marta Rubio Martinez; Ceren Avci Camur; Aaron W. Thornton; Inhar Imaz; Daniel Maspocho; Matthew R. Hill. **New synthetic routes towards MOF production at scale.** *Chemical Society Reviews*. 46, pp. 3453 - 3480.
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9. Javier Arinez Soriano; Jorge Albalad; Arnau Carné Sánchez; Felix Busqué; Julia Lorenzo; Jordi Juanhuix; Maxwell T. Terban; Inhar Imaz; Eva Toth; Daniel Maspocho. **pH-Responsive Relaxometric Behaviour of Coordination Polymer Nanoparticles Made of a Stable Macrocyclic Gadolinium Chelate.** *Chemistry A european Journal.* 22 - 37, pp. 13162 - 13170. Wiley, 2017.
10. R. Rob Ameloot; Inhar Imaz; Paolo Falcaro; Raffaele Ricco; Amirali Yazdi; Shuei Furukawa; Daniel Maspocho; J. D. Evans; Cristian Doonan. **Application of metal and metal oxide nanoparticles@MOFs.** *Coordination Chemistry Reviews.* 307 - 2, pp. 237 - 254. 15/01/2016.
11. Heng Xu; Sabina Rodriguez Hermida; Javier Pérez Carvajal; Jordi Juanhuix; Inhar Imaz; Daniel Maspocho. **A First Cyclodextrin-Transition Metal Coordination Polymer.** *Crystal Growth and Design.* 16 - 10, pp. 5598 - 5602.
12. Luis Garzon Tovar; Mary Cano Sarabia; Arnau Carne Sanchez; Carlos Carbonell; Inhar Imaz; Daniel Maspocho. **A spray-drying continuous-flow method for simultaneous synthesis and shaping of microspherical high nuclearity MOF beads.** *Reaction Chemistry & Engineering.* 1, pp. 533 - 539. Royal Society of Chemistry, 2016.
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14. Inhar Imaz; Marta Rubio Martínez; Neus Domingo; Afshin Abrishamkar; Tiago Sotto Mayor; René M- Rossi; Carlos Carbonell; Andrew J deMello; David B. Amabilino; Daniel Maspocho; Josep Puigmarti Luis. **Freezing the Nonclassical Crystal Growth of a Coordination Polymer Using Controlled Dynamic Gradients.** *Advanced Materials.* 28 - 35, pp. 8150 - 8155. Wiley, 2016.
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Patents	Licensed	Tech transfer
3	2	4

1. **Method for the preparation of Metal-Organic Frameworks**, Luis Carlos Garzon Tovar; Daniel Maspoch Comamala; Inhar Imaz, Patent, Fundacion privada institute catala de nanotecnologia, EP16382120.0, **Licensed Patent**
2. **Micro- and nanoencapsulation of fungicides**, Tech Transfer Contract, Fundacion privada institute catala de nanotecnologia/Chemipol
3. **Method for the preparation of metal organic frameworks**, Daniel Maspoch, Comamala, Inhar Imaz Gabilondo, Arnau Carne Sanchez, Antonia Maria Cano, Fundacion privada institute catala de nanotecnologia, EP2578953. **Licensed Patent**
4. **Micro- and Nanoencapsulation of fragrances**, Tech transfer contract, Fundacion privada institute catala de nanotecnologia/Lucta
5. **Metallo-organic system for the encapsulation and release of compounds of interest, method for obtaining and uses thereof**, Daniel Maspoch Comamamla, Inhar Imaz Gabilondo Daniel Ruiz Molina, Fundacion privada institute catala de nanotecnologia, WO20091332291

