

Prof. Dr. DANIEL MASPOCH COMAMALA

Curriculum vitae

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Brief Resume & Quality Indicators

- **Education and Degrees:** Bachelor in Chemistry, University of Girona (Spain) (1999); and PhD in Materials Science (Cum Laude), Autonomous University of Barcelona (Spain) (2004)
- **Current Position:** ICREA Research Professor, Head of the Supramolecular NanoChemistry & Materials Group, Catalan Institute of Nanoscience and Nanotechnology.
- **Publications Summary:** 226 peer-reviewed publications (+ 6 book chapters). **h-index: 72.** Cites: 19710 (*Google Scholar*).
- **Patents & Technology Transfer Contracts Summary:** 16 patents' families. Licensed: 4 transferred to industry. Signature of 4 technology transfer contracts with private companies.
- **Leading activity in Projects and Fund raising:** ERC Advanced Grant (2021). ERC Consolidator Grant (2014). 2 ERC Proof-of-Concept Grants (2019 & 2022). Participation in 38 projects at national, international and EU level, from which 20 as Coordinator or PI. 26 projects with private funding and Industrial contracts (total budget: €2.3 million).
- **Industrial Innovation: Technology Transfer:** Co-founder of the spin-off [Ahead Therapeutics](#) (2017). Three families of products co-developed with private companies in the market: [LuctaCaps®](#), co-developed with Lucta S.A.; [Fungipol@CP](#), co-developed with Chemipol; and a product of [Lipofer™](#) family, co-developed with Lipofoods-Lubrizol.
- **Distinctions and Awards:** Scientific Excellence Award by the SCQ (2025). Hermanos Elhuyar Hans Goldschmidt Lecture by the German Chemical Society (2024). Jaume I Prize in New Technologies (2023). Corresponding Academician of the Royal Spanish Academy of Science (2022). Real Sociedad Award for Research Excellence in Spanish Chemistry (*RSEQ*) (2020). Marcial Moreno Mañas Lectureship Award (2015).
- **Conferences:** More than 60 invited presentations at worldwide level (Plenary, Keynote and Invited).
- **Personal Supervising experience:** 28 postdocs supervised (+8 on-going), 24 Thesis supervised (+11 on-going), and more than 15 Bachelor and Master students supervised.

Personal Information

SURNAME: Maspoch Comamala	NAME: Daniel
GENDER: male	DNI: 77911693-K
BIRTH DATE: 10 th March, 1976	NATIONALITY: Spanish
PHONE: +34 937 374 634 / +34 603 556 588	MAIL: daniel.maspoch@icn2.cat

Academic Background

BACHELOR	CENTRE	YEAR
Chemistry	Universitat de Girona (UdG)	1999
Master in Materials Science	Universitat Autònoma de Barcelona (UAB) / Institut de Ciència dels Materials de Barcelona (ICMAB-CSIC)	2002

PhD

PhD in Materials Science	Universitat Autònoma de Barcelona (UAB) / Institut de Ciència dels Materials de Barcelona (ICMAB-CSIC)	2004
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PhD Director: Prof. Jaume Veciana / Prof. Concepció Rovira / Dr. Daniel Ruiz Molina

Present Professional Position

ICREA Research Professor and Leader of the Supramolecular NanoChemistry & Materials Group (NANO^{UP})

INSTITUTION: Institut Català de Nanociència i Nanotecnologia (ICN2)

POSTAL ADDRESS: Campus de la UAB, Edifici ICN2, 08193 Bellaterra (Barcelona)

PHONE: +34 93 737 46 34

Professional Background

DATE	POSITION	CENTRE
06/2024 – 08/2024	Research Stay. Fulbrighth fellowship 2023-2024.	University of California, Berkeley
09/2011 – present	ICREA Research Prof.	Institut Català de Nanociència i Nanotecnologia (ICN2)
09/2011 – present	Group Leader	Institut Català de Nanociència i Nanotecnologia (ICN2)
11/2006 – 09/2011	Ramón y Cajal Researcher	Institut Català de Nanotecnologia (ICN)
9/2004 – 10/2006	Post-doc	International Institute for Nanotechnology – Northwestern University
4/2004 – 8/2004	Post-doc	Institut de Ciència dels Materials de Barcelona (ICMAB) – Consejo Superior de Investigaciones Científicas (CSIC)
1/2000 – 3/2004	PhD Student	Institut de Ciència dels Materials de Barcelona (ICMAB) – Consejo Superior de Investigaciones Científicas (CSIC)

Brief Description of my Research Group:

Supramolecular NanoChemistry & Materials Group, NANO^{UP} (www.nanoup.org)

Research Interest:

The NANO^{UP} research group interests are focused on controlling the assembly -Supramolecular Chemistry- of molecules, metal ions and nanoparticles for the creation of functional nanostructured materials -Nanotechnology- with empty spaces; and use them to encapsulate, store, separate, react and deliver molecules of interest. Specifically, our main contributions are in the fields of nanoporous Metal-Organic Frameworks (MOFs), Covalent-Organic Frameworks (COFs), Metal-Organic Polyhedra (MOPs) and Delivery Systems for applications in myriad areas, including Energy, Catalysis, the Environment, Encapsulation, and Life Science.

Keywords:

Nanochemistry; Nanotechnology; Supramolecular Chemistry & Materials; Metal-Organic Frameworks - MOFs; Delivery Systems; Liposomes; Vesicles; Porosity; Adsorption; Micro- & Nanoencapsulation; Nanocarriers.

Current Members:

Prof. Daniel Maspoch (ICREA Research Professor; Group Leader)
Dr. Inhar Imaz (CSIC Researcher, Subgroup Leader)
Dr. Mary Cano (CSIC Researcher, Subgroup Leader)
Dr. Arnau Carné (Ramón y Cajal Researcher, Subgroup Leader)
Dr. Jorge Albalad (Ramón y Cajal Researcher, Subgroup Leader)
Dr. Sonia García (Senior Researcher)
Dr. Partha Samanta (Postdoctoral Researcher)
Dr. Francisco Sánchez (Postdoctoral Researcher)
Dr. Sahel Fajal (Postdoctoral Researcher)
Dr. Alba Cortés (Postdoctoral Researcher)
Dr. Uxía Gómez (Postdoctoral Researcher)
Dr. Marta Sanmartí (Scientific Project Manager)
Dr. José Antonio Suárez (Technician)
Lingxin Meng (PhD Student)
Juan Pablo Cavalieri (PhD Student)
Sara Ruíz (PhD Student)
Gerard Pena (PhD Student)
Pilar Fernández (PhD Student)
Amir Ghadiri (PhD Student)
Lorena Velasco (PhD Student)
Caterina Caules (PhD Student)
Chen Fang (PhD Student)
Chuanqi Miao (PhD Student)
Olga Griaznova (PhD Student)
Xieshun Gu (Visiting Undergraduate Student)

Publications – Articles

226. L. Turitich, E. Hebishy, [D. Maspoch](#), V. Ferragut, M. Cano-Sarabia, A. J. Trujillo. Oil-in-water emulsions prepared using vegetable oils and buttermilk as emulsifier: Unveiling the impact of high-pressure homogenization valve design on emulsion physical and oxidative stability. **Innovative Food Science & Emerging Technologies** **2026**, DOI: 10.1016/j.ifset.2025.104410.
225. P. Fernández-Seriñán, P. Samanta, I. Imaz, [D. Maspoch*](#). Excision in two dimensions: synthesis of 2D Metal-Organic nanosheets via Clip-off Chemistry. **Journal of American Chemical Society** **2025**, *147*, 50, 45849–45854.
224. X. Chang, A. J. Redman, L. Zedler, L. Blechschmidt, A. Sacristán-Martín, F. Schwer, I. Imaz, M. P. B. Wiedmaier, X. Ribas, [D. Maspoch](#), B. Dietzek-Ivanšić, S. Richert, M. von Delius. Rigidifying qubit candidates in a Cu-porphyrin nanohoop: dipolar coupling in spin pairs and spin-polarized ground state. **Angewandte Chemie International Edition** **2025**, e22950.
223. A. Guillem-Navajas, L. Torrico-García-Viso, J. A. Suárez del Pino, N. Aramburu, P. Segovia, E. G. Michel, J. Puigmartí-Luis, E. Velasco, P. Tarazona, [D. Maspoch*](#), D. Rodríguez-San-Miguel, F. Zamora. COFs on MOFs: Layer-by-layer synthesis of MOF@COF nanoparticles with synergistic adsorption. **Advanced Materials** **2025**, e14548.
222. F. Sánchez-Férez, A. Carné-Sánchez, [D. Maspoch*](#). Transferring porosity across physical states using metal-organic cages: porous liquids, glasses, rubbers, and more. **Angewandte Chemie International Edition** **2025**, e12455.
221. B. Ortín-Rubio, Y. Yang, E. Borrego-Marin, J. Rostoll-Berenguer, C. Vila, J. Juanhuix, I. Imaz, J. A. R. Navarro, [D. Maspoch*](#). Linker desymmetrisation unlocks new topologies, defective clusters, and catalytic activity in zirconium- and rare-earth metal-organic frameworks. **Chemical Science** **2025**, *16*, 21600-21613.
220. C. Borràs, M. Canyelles, D. Santos, N. Rotllan, E. Núñez, J. Vázquez, [D. Maspoch](#), M. Cano-Sarabia, Q. Zhao, M. Carmona-Iragui, S. Sirisi, A. Lleó, J. Fortea, D. Alcolea, F. Blanco-Vaca, J. C. Escola-Gil, M. Tondo. CSF lipoprotein-mediated cholesterol delivery to neurons is impaired in Alzheimer's disease and involves APOE4. **Journal of Lipid Research** **2025**, *66*, 8, 100865.
219. R. Sánchez-Naya, J. P. Cavalieri, J. Albalad, A. Cortés-Martínez, K. Wang, C. Fuertes-Espinosa, T. Parella, S. Fiori, E. Ribas, A. Mugarza, X. Ribas, J. Faraudo, O. M. Yaghi, I. Imaz, [D. Maspoch*](#). Excision of organic macrocycles from covalent organic frameworks. **Science** **2025**, *388*, 6753, 1318-1323.
218. A. Cortés-Martínez, P. Fernández-Seriñán, C. von Baeckmann, C. Caules, L. Hernández-López, M. S. Gutiérrez Gómez, Y. Yang, R. Sánchez-Naya, J. A. Suárez del Pino, J. Juanhuix, I. Imaz, A. Carné-Sánchez, [D. Maspoch*](#). Isorecticular synthesis of mesoporous metal-organic polyhedra with permanent porosity to gas and water. **Angewandte Chemie International Edition** **2025**, e202505682.
217. L. Hernández-López, A. Khobotov-Bakishev, A. Cortés-Martínez, E. Garrido-Ribó, P. Samanta, S. Royuela, F. Zamora, [D. Maspoch*](#), A. Carné-Sánchez. DNA-based networks formed by coordination cross-linking of DNA with metal-organic polyhedra: from gels to aerogels to hydrogels. **Journal of the American Chemical Society** **2025**, *147*, 16560-16567.

216. M. Perbet, T. Aumond, C. Collomb, C. Daniel, I. Imaz, G. Pena, [D. Maspoch](#), T. Michon, R. Morales-Ospino, V. Fierro, E. Alessandra Quadrelli, D. Farrusseng. Upscaled Al-fumarate synthesis and shaping by spray drying. **Industrial & Engineering Chemistry Research** **2025**, *64*, 12, 6541-6549.
215. G. Pena, J. Albalad, [D. Maspoch*](#), I. Imaz. Synthesis of organic molecules via spray-drying. **Chemical Science** **2025**, *16*, 5770-5775. **Journal Cover**.
214. M. Cano-Sarabia, F. Aydin, L. Meng, M. Gil-Bonillo, J. Fonseca, M. Dietrich, S. Renner, H. Amenitsch, P. Falcaro, I. Imaz, [D. Maspoch*](#). Lipid/ZIF-8 biocomposites based on liposomes or vesicles: *in-situ* formation, and preliminary evaluation as delivery vehicles for hydrophobic drugs. **Small** **2025**, *21*, 2407051.
213. A. Martínez-Martínez, J. Albalad, E. Resines-Urien, E.C. Sañudo, A. L. Mariano, O. Fabelo, J.A. Rodríguez-Velamazán, R. Poloni, [D. Maspoch](#), J. Sánchez Costa. Decoding framework dynamics in a spin crossover flexible metal-organic framework. **Small** **2025**, DOI: 10.1002/sml.202411201.
212. Y. Yang, P. Fernández-Seriñán, B. Ortín-Rubio, P. Samanta, F. Gándara, D. M. Proserpio, D. Nam, J. Junahuix, I. Imaz, [D. Maspoch*](#). Merging and clipping nets for the synthesis of three- and two-merged net metal-organic frameworks. **Journal of the American Chemical Society** **2025**, *147*, 1344-1355.
211. T. Pèlachs, C. Sabrià, V. Iannace, I. Imaz, F. Gándara, [D. Maspoch](#), F. Feixas, X. Ribas. Supramolecular mask regio-converter: orthogonal diels-alder C70 bis-adducts by mask-mediated regioselective synthesis. **CCS Chemistry** **2025**, *7*, 703-715.
210. D. Nam, J. Albalad, R. Snchez-Naya, S. Ruiz Relao, A. Cortés-Martínez, Y. Yang, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Isolation of the secondary building unit of a 3D Metal-Organic Framework through Clip-off Chemistry, and its re-use to synthesize new frameworks by dynamic covalent chemistry. **Journal of the American Chemical Society** **2024**, *146*, 40, 27255–27261.
209. S. Ruiz-Relaño, D. Nam, J. Albalad, A. Cortés-Martínez, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Synthesis of metal-organic cages via orthogonal bond cleavage in 3D metal-organic frameworks. **Journal of the American Chemical Society** **2024**, *146*, 39, 26603–26608.
208. L. Meng, J. Fonseca, R. Sánchez-Naya, A. Mohammad Ghadiri, I. Imaz, [D. Maspoch*](#). Co-assembly of complementary polyhedral metal-organic framework particles into binary ordered superstructures. **Journal of the American Chemical Society** **2024**, *146*, 31, 21225–21230.
207. M. Sanchez-Fuente, L. Hernandez-Lopez, [D. Maspoch*](#), R. Mas-Balleste, A. Carne-Sanchez. Recyclable homogeneous catalysis enabled by dynamic coordination on Rhodium(II) axial sites of Metal-Organic Polyhedra. **Chemistry A European Journal** **2024**, e202401661.
206. J. Fonseca, M. Cano-Sarabia, P. Cortés, J. Saldo, D. Montpeyó, J. Lorenzo, M. Llagostera, I. Imaz, [D. Maspoch*](#). Metal-organic framework-based antimicrobial touch surfaces to prevent cross-contamination. **Advanced Materials** **2024**, 2403813.
205. J. Á. Martín-Illán, L. Sierra, A. Guillem-Navajas, J. A. Suárez, S. Royuela, D. Rodríguez-San-Miguel, [D. Maspoch](#), P. Ocón, F. Zamora. β -Ketoenamine-linked covalent organic frameworks synthesized via gel-to-gel monomer exchange reaction: from aerogel monoliths to electrodes for supercapacitors. **Advanced Functional Materials** **2024**, 2403567.

204. A. Cortés-Martínez, C. von Baeckmann, L. Hernández-López, A. Carné-Sánchez, [D. Maspoch*](#). Giant oligomeric porous cage-based molecules. **Chemical Science** **2024**, *15*, 7992-7998.
203. C. von Baeckmann, J. Martínez-Esaín, J. A. Suárez del Pino, L. Meng, J. Garcia-Masferrer, J. Faraudo, J. Sort, A. Carné-Sánchez, [D. Maspoch*](#). Porous and melttable metal–organic polyhedra for the generation and shaping of porous mixed-matrix composites. **Journal of the American Chemical Society** **2024**, *146*, *11*, 7159–7164.
202. P. Fernández-Seriñán, K. Roztocki, V. Safarifard, V. Guillermin, S. Rodríguez-Hermida, J. Juanhuix, I. Imaz, A. Morsali, [D. Maspoch*](#). Modulation of the dynamics of a two-dimensional interweaving metal-organic framework through induced hydrogen-bonding. **Inorganic Chemistry** **2024**, *63*, 5552-5558.
201. V. Iannace, C. Sabrià, Y. Xu, M. von Delius, I. Imaz, [D. Maspoch](#), F. Feixas, X. Ribas. Regioswitchable bingel bis-functionalization of fullerene C₇₀ via supramolecular masks. **Journal of the American Chemical Society** **2024**, *146*, *8*, 5186–5194.
200. M. Shan, X. Geng, I. Imaz, A. Broto-Ribas, B. Ortín-Rubio, [D. Maspoch](#), L. Ansaloni, T. A. Peters, A. Tena, M. E. Boerrigter, D. A. Vermaas. Metal- and covalent-organic framework mixed matrix membranes for CO₂ separation: A perspective on stability and scalability. **Journal of Membrane Science** **2024**, *691*, 122258.
199. M. Linares-Moreau, L. A. Brandner, M. de J. Velásquez-Hernández, J. Fonseca, Y. Benseghir, J. Min Chin, [D. Maspoch](#), C. Doonan, P. Falcaro. Fabrication of oriented polycrystalline MOF superstructures. **Advanced Materials** **2024**, 2309645.
198. A. Khobotov-Bakishev, P. Samanta, K. Roztocki, J. Albalad, S. Royuela, S. Furukawa, F. Zamora, A. Carné-Sánchez, [D. Maspoch*](#). Post-synthetic modification of aerogels made of covalent cross-linked metal-organic polyhedra. **Advanced Functional Materials** **2024**, 2312166.
197. S. Wintzheimer, L. Luthardt, K. L. A. Cao, I. Imaz, [D. Maspoch](#), T. Ogi, A. Bück, D. P. Debecker, M. Faustini, K. Mandel. Multifunctional, hybrid materials design via spray-drying: much more than just drying. **Advanced Materials** **2023**, *35*, 2306648.
196. B. Ortín-Rubio, J. Rostoll-Berenguer, C. Vila, D. M. Proserpio, V. Guillermin, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Net-clipping as a top-down approach for the prediction of topologies of MOFs built from reduced-symmetry linkers. **Chemical Science** **2023**, *14*, 12984.
195. J. Fonseca, L. Meng, P. Moronta, I. Imaz, C. López, [D. Maspoch*](#). Assembly of covalent organic frameworks into colloidal photonic crystals. **Journal of the American Chemical Society** **2023**, *145*, *37*, 20163-20168.
194. A. Broto-Ribas, S. Ruiz-Relaño, J. Albalad, Y. Yang, F. Gándara, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Retrosynthetic analysis applied to Clip-off Chemistry: synthesis of four Rh(II)-based complexes as Proof-of-Concept. **Angewandte Chemie International Edition** **2023**, *62*, e202310354, **Journal Cover**.
193. O. Calvo-Lozano, L. Hernández-López, L. Gomez, A. Carné-Sánchez, C. von Baeckmann, L. M. Lechuga, [D. Maspoch*](#). Integration of metal–organic polyhedra onto a nanophotonic sensor for real-time detection of nitrogenous organic pollutants in water. **ACS Applied Materials & Interfaces** **2023**, *15*, *33*, 39523-39529.
192. L. Hernández-López, C. von Baeckmann, J. Martínez-Esaín, A. Cortés-Martínez, J. Faraudo, C. Caules, T. Parella, [D. Maspoch*](#), A. Carné-Sánchez. (Bio)functionalisation of metal-organic polyhedra via click chemistry. **Chemistry A European Journal** **2023**, *29*, e202301945.

191. Y. Yang, P. Fernández-Seriñán, I. Imaz, F. Gándara, M. Handke, B. Ortín-Rubio, J. Juanhuix, [D. Maspoch*](#). Isoreticular contraction of metal–organic frameworks induced by cleavage of covalent bonds. **Journal of the American Chemical Society** **2023**, 145, 31, 17398-17405.
190. A. Martínez-Martínez, E. Resines-Urien, L. Piñeiro-López, A. Fernández-Blanco, A. Lorenzo Mariano, J. Albalad, [D. Maspoch](#), R. Poloni, J. A. Rodríguez-Velamazán, E. C. Sañudo, E. Burzurí, J. Sánchez Costa. Spin crossover-assisted modulation of electron transport in a single crystal 3D metal-organic Framework. **Chemistry of Materials** **2023**, 35, 15, 6012-6023.
189. S. Carrasco, G. Orcajo, F. Martínez, I. Imaz, S. Kavak, D. Arenas-Esteban, [D. Maspoch](#), S. Bals, G. Calleja, P. Horcajada. Hf/porphyrin-based metal-organic framework PCN-224 for CO₂ cycloaddition with epoxides. **Materials Today Advances** **2023**, 19, 100390.
188. B. Ortín-Rubio, C. Perona-Bermejo, J. A. Suárez del Pino, F. J. Carmona, F. Gándara, J. A. R. Navarro, J. Juanhuix, I. Imaz, [D. Maspoch*](#). A mesoporous Zr-based metal-organic framework driven by the assembly of an octatopic linker. **Chemical Communications** **2023**, 59, 7803-7806.
187. J. Fonseca, L. Meng, I. Imaz, [D. Maspoch*](#). Self-assembly of colloidal metal–organic framework (MOF) particles. **Chemical Society Reviews Journal** **2023**, 52, 2528-2543.
186. C. Çamur, R. Babu, J. A. Suárez del Pino, N. Rampal, J. Pérez-Carvajal, P. Hügenell, S.-J. Ernst, J. Silvestre-Albero, I. Imaz, D. G. Madden, [D. Maspoch](#), D. Fairen-Jimenez. Monolithic zirconium-based metal-organic frameworks for energy-efficient water adsorption applications. **Advanced Materials** **2023**, 35, 2209104.
185. T. Zhang, H. Liu, X. Han, M. Biset-Peiró, Y. Yang, I. Imaz, [D. Maspoch](#), B. Yang, J. R. Morante, J. Arbiol. Improvement of carbon dioxide electroreduction by crystal surface modification of ZIF-8. **Dalton Transactions** **2023**, 52, 5234-5242.
184. J. Smets, A. J. Cruz, V. Rubio-Giménez, M. L. Tietze, D. E. Kravchenko, G. Arnauts, A. Matavž, N. Wauteraerts, M. Tu, K. Marcoen, I. Imaz, [D. Maspoch](#), M. Korytov, P. M. Vereecken, S. De Feyter, T. Hauffman, R. Ameloot. Molecular layer deposition of zeolitic imidazolate framework-8 films. **Chemistry of Materials** **2023**, 35, 4, 1684-1690.
183. C. von Baeckmann, S. Ruiz-Relaño, I. Imaz, M. Handke, J. Juanhuix, F. Gándara, A. Carné-Sánchez, [D. Maspoch*](#). Stepwise assembly of heterometallic, heteroleptic “Triblock Ja-nus-type” metal-organic polyhedra. **Chemical Communications** **2023**, 59, 3423-3426.
182. A. Carné-Sánchez, J. Martínez-Esaín, T. Rookard, C. J. Flood, J. Faraudo, K. C. Stylianou, [D. Maspoch*](#). Ammonia capture in rhodium(II)-based metal–organic polyhedra via synergistic coordinative and H-bonding interactions. **ACS Applied Materials & Interfaces** **2023**, 15, 5, 6747-6754.
181. J. Troyano, [D. Maspoch*](#). Propagating MOF flexibility at the macroscale: the case of MOF-based mechanical actuators. **Chemical Communications** **2023**, 59, 1744-1756.
180. A. Khobotov-Bakishev, C. von Baeckmann, B. Ortín-Rubio, L. Hernández-López, A. Cortés-Martínez, J. Martínez-Esaín, F. Gándara, J. Juanhuix, A. E. Platero-Prats, J. Faraudo, A. Carné-Sánchez, [D. Maspoch*](#). Multicomponent, functionalized HKUST-1 analogues assembled via reticulation of prefabricated metal–organic polyhedral cavities. **Journal of American Chemical Society** **2022**, 144, 15745–15753.

179. A. Broto-Ribas, S. Gutiérrez, I. Imaz, A. Carné-Sánchez, F. Gándara, J. Juanhuix, [D. Maspoch*](#). Synthesis of the two isomers of heteroleptic $\text{Rh}_{12}\text{L}_6\text{L}'_6$ metal-organic polyhedra by screening of complementary linkers. **Chemical Communications** **2022**, 58, 10480-10483.
178. I. Tejedor, M. A. Andrés, A. Carné-Sánchez, M. Arjona, M. Pérez-Miana, J. Sánchez-Lainez, J. Coronas, P. Fontaine, M. Goldmann, O. Roubeau, [D. Maspoch](#), I. Gascón. Influence of the surface chemistry of metal-organic polyhedra in their assembly into ultrathin films for gas separation. **ACS Applied Materials & Interfaces** **2022**, 14, 23, 27495.
177. J. W. M. Osterrieth, J. Rampersad, D. Madden, N. Rampal, L. Skoric, B. Connolly, M. D. Allendorf, V. Stavila, J. L. Snider, *et al.* How reproducible are surface areas calculated from the BET Equation? **Advanced Materials** **2022**, 34, 2201502.
176. L. Hernández-López, A. Cortés-Martínez, T. Parella, A. Carné-Sánchez, [D. Maspoch*](#). pH-triggered removal of nitrogenous organic micropollutants from water by metal-organic polyhedra. **Chemistry A European Journal** **2022**, 28, e202200357. *Best publication Award (predoc) Women Talent Programme ICN2 2022*.
175. J. Wang, Y. Liu, G. Bleyer, E. S. A. Goerlitzer, S. Englisch, T. Przybilla, C. Fru Mbah, M. Engel, E. Spiecker, I. Imaz, [D. Maspoch*](#), N. Vogel. Coloration in supraparticles assembled from polyhedral metal-organic framework particles. **Angewandte Chemie International Edition** **2022**, e202117455.
174. J. Á. Martín-Illán, J. Antonio Suárez, J. Gómez-Herrero, P. Ares, D. Gallego-Fuente, Y. Cheng, D. Zhao, [D. Maspoch](#), F. Zamora. Ultralarge free-standing imine-based covalent organic framework membranes fabricated via compression. **Advanced Science** **2022**, 2104643.
173. J. Albalad, L. Hernández-López, A. Carné-Sánchez, [D. Maspoch*](#). Surface chemistry of metal-organic polyhedra. **Chemical Communications** **2022**, 58, 2443.
172. X. Han, G. Boix, M. Balcerzak, O. Hernando Moriones, M. Cano-Sarabia, P. Cortés, N. Bastús, V. Puentes, M. Llagostera, I. Imaz, [D. Maspoch*](#). Antibacterial films based on MOF composites that release iodine passively or upon triggering by near-infrared light. **Advanced Functional Materials** **2022**, 2112902.
171. A. Khobotov-Bakishev, L. Hernández-López, C. von Baeckmann, J. Albalad, A. Carné-Sánchez, [D. Maspoch*](#). Metal-Organic Polyhedra as building blocks for porous extended networks. **Advanced Science** **2022**, 2104753.
170. Y. Yang, A. Broto-Ribas, B. Ortín-Rubio, I. Imaz, F. Gándara, A. Carné-Sánchez, V. Guillerme, S. Jurado, F. Busqué, J. Juanhuix, [D. Maspoch*](#). Clip-off Chemistry: Synthesis by programmed disassembly of reticular materials. **Angewandte Chemie International Edition** **2022**, 61, e202111228.
169. J. Wang, I. Imaz, [D. Maspoch*](#). Metal-Organic Frameworks: Why make them small? **Small Structures** **2022**, 3, 2100126.
168. Y. Liu, J. Wang, I. Imaz, [D. Maspoch*](#). Assembly of colloidal clusters driven by the polyhedral shape of metal-organic framework particles. **Journal of the American Chemical Society** **2021**, 143, 12943–12947.
167. A. López-Magano, B. Ortín-Rubio, I. Imaz, [D. Maspoch](#), J. Alemán, R. Mas-Ballesté. Photoredox heterobimetallic dual catalysis using engineered covalent organic frameworks. **ACS Catalysis** **2021**, 11, 12344 – 12354.

166. A. Jiménez-Almarza, A. López-Magano, R. Cano, B. Ortín-Rubio, D. Díaz-García, S. Gomez-Ruiz, I. Imaz, [D. Maspoch](#), R. Mas-Ballesté, J. Alemán. Engineering covalent organic frameworks in the modulation of photocatalytic degradation of pollutants under visible light conditions. **Materials Today Chemistry** **2021**, 22, 100548.
165. I. Ratera, J. Vidal-Gancedo, [D. Maspoch](#), S. T. Bromley, N. Crivillers, M. Mas-Torrent. Perspectives for polychlorinated trityl radicals. **Journal of Materials Chemistry C** **2021**, 9, 10610.
164. G. Boix, X. Han, I. Imaz, [D. Maspoch*](#). A millimeter-shaped metal-organic framework/inorganic nanoparticle composite as a new adsorbent for home water-purification filters. **ACS Applied Materials & Interfaces** **2021**, 13, 15, 17835–17843.
163. J. Á. Martín-Illán, D. Rodríguez-San-Miguel, O. Castillo, G. Beobide, J. Perez-Carvajal, I. Imaz, [D. Maspoch*](#), F. Zamora. Macroscopic ultralight aerogel monoliths of imine-based covalent organic frameworks. **Angewandte Chemie International Edition** **2021**, 60, 13969–13977.
162. J. Albalad, C. J. Sumby, [D. Maspoch*](#), C. J. Doonan. Elucidating pore chemistry within metal-organic frameworks *via* single crystal X-ray diffraction; from fundamental understanding to application. **CrystEngComm** **2021**, 23, 2185-2195.
161. L. Hernández-López, J. Martínez-Esaín, A. Carné-Sánchez, T. Grancha, J. Faraudo, [D. Maspoch*](#). Steric hindrance in metal coordination drives the separation of pyridine regioisomers using rhodium(II)-based metal-organic polyhedra. **Angewandte Chemie International Edition** **2021**, 60, 11406–11413.
160. E. Ubasart, O. Borodin, C. Fuertes-Espinosa, Y. Xu, C. García-Simón, L. Gómez, J. Juanhuix, F. Gándara, I. Imaz, [D. Maspoch](#), M. von Delius, X. Ribas. A three-shell supramolecular complex enables the symmetry-mismatched chemo- and regioselective bis-functionalization of C60. **Nature Chemistry** **2021**, 13, 420–427.
159. A. Broto-Ribas, C. Vignatti, A. Jimenez-Almarza, J. Luis-Barrera, Z. Dolatkhah, F. Gándara, I. Imaz, R. Mas-Ballesté, J. Alemán, [D. Maspoch*](#). Heterogeneous catalysts with programmable topologies generated by reticulation of organocatalysts into metal-organic frameworks: The case of squaramide. **Nano Research** **2021**, 14, 458–465.
158. T. Grancha, A. Carné-Sánchez, F. Zarekarizi, L. Hernández-López, J. Albalad, A. Khobotov, V. Guillerm, A. Morsali, J. Juanhuix, F. Gándara, I. Imaz, [D. Maspoch*](#). Synthesis of polycarboxylate Rh(II)-metal-organic polyhedra and their use as building blocks for highly-connected metal-organic frameworks. **Angewandte Chemie International Edition** **2021**, 60, 5793–5797. *Best publication Award (postdoc) Women Talent Programme ICN2 2021*
157. Y. Yang, X. Arqué, T. Patiño, V. Guillerm, P.-R. Blersch, J. Pérez-Carvajal, I. Imaz, [D. Maspoch*](#), S. Sánchez. Enzyme-powered porous micromotors built from a hierarchical micro- and mesoporous UiO-type metal-organic framework. **Journal of American Chemical Society** **2020**, 142, 50, 20962–20967.
156. A. Villalba, S. Rodriguez-Fernandez, D. Perna-Barrull, R.-M. Ampudia, L. Gomez-Muñoz, I. Pujol-Autonell, E. Aguilera, R. M. Risueño, M. Cano-Sarabia, [D. Maspoch](#), F. Vázquez, M. Vives-Pi. Antigen-specific immunotherapy combined with a regenerative drug in the treatment of experimental type 1 diabetes. **Scientific Reports** **2020**, 10, 18927.
155. N. Jarrah, J. Troyano, A. Carné-Sánchez, I. Imaz, S. Tangestaninejad, M. Moghadam, [D. Maspoch*](#). Dynamic porous coordination polymers built-up from flexible 4,4'-dithiodibenzoate and rigid N-based ligands. **Dalton Transactions** **2020**, 49, 13142-13151.

154. A. C. Hortelão, S. García-Jimeno, M. Cano-Sarabia, T. Patiño, [D. Maspoch*](#), S. Sanchez. LipoBots: using liposomal vesicles as protective shell of urease-based nanomotors. **Advanced Functional Materials** **2020**, *30*, 2002767.
153. S. Reljic, A. Broto-Ribas, C. Cuadrado-Collados, E. O. Jardim, [D. Maspoch](#), I. Imaz, J. Silvestre-Albero. Structural deterioration of well-faceted MOFs upon H₂S exposure and its effect in the adsorption performance. **Chemistry-A European Journal** **2020**, *26*, 17110–17119.
152. J. Troyano, C. Çamur, L. Garzón-Tovar, A. Carné-Sánchez, I. Imaz, [D. Maspoch*](#). Spray-drying synthesis of MOFs, COFs, and related composites. **Accounts of Chemical Research** **2020**, *53*, 6, 1206–1217.
151. J. Á. Martín-Illán, D. Rodríguez-San-Miguel, C. Franco, I. Imaz, [D. Maspoch](#), J. Puigmartí-Luis, F. Zamora. Green synthesis of imine-based covalent organic frameworks in water. **Chemical Communications** **2020**, *56*, 6704-6707.
150. B. Ortín-Rubio, H. Ghasempour, V. Guillerm, A. Morsali, J. Juanhuix, I. Imaz, [D. Maspoch*](#) Net-Clipping: an approach to deduce the topology of metal-organic frameworks built with zigzag ligands. **Journal of American Chemical Society** **2020**, *142*, 20, 9135–9140.
149. M. G. Cuxart, M. A. Valbuena, R. Robles, C. Moreno, F. Bonell, G. Sauthier, I. Imaz, H. Xu, C. Nistor, A. Barla, P. Gargiani, M. Valvidares, [D. Maspoch](#), P. Gambardella, S. O. Valenzuela, A. Mugarza. A molecular approach for engineering interfacial interactions in magnetic-topological insulator heterostructures. **ACS Nano** **2020**, *14*, 5, 6285–6294.
148. G. Boix, J. Troyano, L. C. Garzon Tovar, C. Camur, N. Bermejo, A. Yazdi, J. Piella, N. Bastús, V. Puentes, I. Imaz, [D. Maspoch*](#). MOF-Beads containing inorganic nanoparticles for the simultaneous removal of multiple heavy metals from water. **ACS Applied Materials & Interfaces** **2020**, *12*, 9, 10554–10562.
147. C. Franco, D. Rodríguez-San-Miguel, A. Sorrenti, S. Sevim, R. Pons, A. E. Platero-Prats, M. Pavlovic, I. Szilagyi, M. L. Ruiz Gonzalez, J. M. González-Calbet, D. Bochicchio, L. Pesce, G. M. Pavan, I. Imaz, M. Cano-Sarabia, [D. Maspoch](#), S. Pané, A. de Mello, F. Zamora, J. Puigmartí-Luis. Biomimetic synthesis of sub-20 nanometer Covalent Organic Frameworks in water. **Journal of the American Chemical Society** **2020**, *142*, 7, 3540–3547.
146. A. Villalba, S. Rodriguez-Fernandez, R.-M. Ampudia, M. Cano-Sarabia, D. Perna-Barrull, C. Bertran-Cobo, C. Ehrenberg, [D. Maspoch](#), M. Vives-Pi. Preclinical evaluation of antigen-specific nanotherapy based on phosphatidylserine-liposomes for type 1 diabetes. **Artificial Cells, Nanomedicine and Biotechnology** **2020**, *48*, 77-83.
145. C. Fuertes-Espinosa, C. García-Simón, M. Pujals, M. Garcia-Borràs, L. Gómez, T. Parella, J. Juanhuix, I. Imaz, [D. Maspoch](#), M. Costas, X. Ribas. Supramolecular fullerene sponges as catalytic masks for regioselective functionalization of C₆₀. **Chem.** **2020**, *6*, 5-7.
144. M. A. Andrés, A. Carné-Sánchez, J. Sánchez-Láinez, O. Roubeau, J. Coronas, [D. Maspoch*](#), I. Gascón. Ultrathin films of porous Metal–Organic Polyhedra for gas separation. **Chemistry-A European Journal** **2020**, *26*, 143–147.
143. S. Rodriguez-Fernandez, M. Murillo, A. Villalba, D. Perna-Barrull, M. Cano-Sarabia, L. Gomez-Muñoz, E. Aguilera, [D. Maspoch](#), F. Vazquez, J. Bel, M. Vives-Pi. Impaired phagocytosis in dendritic cells from pediatric patients with type 1 diabetes does not hamper their tolerogenic potential. **Frontiers in Immunology** **2019**, *10*, 2881.

142. S. Rodriguez-Fernandez, M. Murillo, D. Perna-Barrull, A. Villalba, [D. Maspoch](#), J. Bel, M. Vives-Pi. Dendritic cells from paediatric patients with type 1 diabetes show altered phagocytosis capacity correlating with disease evolution. **Diabetologia** **2019**, *62*, S224 - S224.
141. Y. Xu, S. Gsänger, M. Minameyer, I. Imaz, [D. Maspoch](#), O. Shyshov, F. Schwer, X. Ribas, T. Drewello, B. Meyer, M. K. von Delius. Highly strained, radially π -conjugated porphyrinylene nanohoops. **Journal of the American Chemical Society** **2019**, *141*, 18500-18507.
140. M. Ruiz-Garcia, P. Pérez-Lozano, M. Cano-Sarabia, S. Garcia-Jimeno, J. M. Suñé-Negrea, [D. Maspoch](#), E. García-Montoya. Development and validation of a novel high performance liquid chromatography method for the simultaneous quantification of co-enzyme Q10, phosphatidylserine and Vitamin C from a cutting edge liposomal vehiculization. **ACS Omega** **2019**, *4*, 19710-19715.
139. J. Troyano, A. Carné-Sánchez, C. Avci, I. Imaz, [D. Maspoch*](#). Colloidal metal-organic framework particles: the pioneering case of ZIF-8. **Chemical Society Reviews** **2019**, *48*, 5534-5546, **Journal Cover**
138. T. Grancha, A. Carné-Sánchez, L. Hernández-López, J. Albalad, I. Imaz, J. Juanhuix, [D. Maspoch*](#). Phase transfer of rhodium(II)-based metal-organic polyhedra bearing coordinatively-bound cargo enables molecular separation. **Journal of the American Chemical Society** **2019**, *141*, 18349-18355.
137. V. Guillerm, [D. Maspoch*](#). Geometry mismatch and reticular chemistry: strategies to assemble metal-organic frameworks with non-default topologies. **Journal of the American Chemical Society** **2019**, *141*, 16517-16538.
136. J. Albalad, A. Carné-Sánchez, T. Grancha, L. Hernández-López, [D. Maspoch*](#). Protection strategies for directionally-controlled synthesis of previously inaccessible Metal-Organic Polyhedra (MOPs): the cases of carboxylate- and amino-functionalized Rh(II)-MOPs. **Chemical Communications** **2019**, *55*, 12785-12788.
135. J. Pérez-Carvajal, G. Boix, I. Imaz, [D. Maspoch*](#). The imine-based COF TpPa-1 as an efficient cooling adsorbent that can be regenerated by heat or light. **Advanced Energy Materials** **2019**, *9*, 1901535.
134. J. Luis-Barrera, R. Cano Monserrat, G. Imani Shakibaei, J. Heras-Domingo, J. Perez-Carvajal, I. Imaz, [D. Maspoch](#), X. Solans-Monfort, J. Aleman, R. Mas Balleste. Switching acidic and basic catalysis through supramolecular functionalization in a porous 3D covalent imine-based material. **Catalysis Science & Technology** **2019**, *9*, 6007-6014.
133. C. Avci, Y. Liu, J. A. Pariente, A. Blanco, C. Lopez, I. Imaz, [D. Maspoch*](#). Template-free, surfactant-mediated orientation of self-assembled supercrystals of metal-organic framework particles. **Small** **2019**, *15*, 1902520.
132. A. Gheorghe, I. Imaz, J. I. van der Vlugt, [D. Maspoch](#), S. Tanase. Tuning the supramolecular isomerism of MOF-74 by controlling the synthesis conditions. **Dalton Transactions** **2019**, *48*, 10043-10050.
131. L. Garzón-Tovar, J. Pérez-Carvajal, A. Yazdi, J. Hernández-Muñoz, P. Tarazona, I. Imaz, F. Zamora, [D. Maspoch*](#). A MOF@COF composite with enhanced uptake through interfacial pore generation. **Angewandte Chemie International Edition** **2019**, *58*, 9512-9516.
130. S. Fernández de Retana, P. Marazuela, M. Solé, G. Colell, A. Bonaterra, J.L. Sánchez-Quesada, J. Montaner, [D. Maspoch](#), M. Cano-Sarabia, M. Hernández-Guillamon. Peripheral administration of

human recombinant ApoJ/clusterin modulates brain beta-amyloid levels in APP23 mice. **Alzheimer's Research & Therapy** **2019**, *11*(42).

129. J. Troyano, A. Carné-Sánchez, [D. Maspoch*](#). Programmable self-assembling 3D architectures generated by patterning of swellable MOF-based composite films. **Advanced Materials** **2019**, *31* 1808235.

128. A. Carné-Sánchez, G. A. Craig, P. Larpent, V. Guillerme, K. Urayama, [D. Maspoch](#), S. Furukawa. A coordinative solubilizer method to fabricate soft porous materials from insoluble metal-organic polyhedra. **Angewandte Chemie International Edition** **2019**, *58*, 6347-6350.

127. J. Otero, A. García, M. Cano-Sarabia, [D. Maspoch](#), R. Marcos, P. Cortés, M. Llagostera. Biodistribution of liposome-encapsulated bacteriophages and their transcytosis during oral phage therapy. **Frontiers in MicroBiology** **2019**, *10*, 689.

126. A. Carné-Sánchez, J. Albalad, T. Grancha, I. Imaz, J. Juanhuix, P. Larpent, S. Furukawa, [D. Maspoch*](#). Postsynthetic covalent and coordination functionalization of rhodium (II)-based metal-organic polyhedra. **Journal of the American Chemical Society** **2019**, *141*(9), 4094-4102.

125. C. García-Simón, A. Monferrer, M. Garcia-Borràs, I. Imaz, [D. Maspoch](#), M. Costas, X. Ribas. Size-selective encapsulation of C60 and C60 derivatives within an adaptable naphthalene-based tetragonal prismatic supramolecular nanocapsule. **Chemical Communications** **2019**, *55*, 798-801.

124. V. Guillerme, H. Xu, J. Albalad, I. Imaz, [D. Maspoch*](#). Postsynthetic selective ligand cleavage by solid-gas phase ozonolysis fuses micropores into mesopores in metal-organic frameworks. **Journal of the American Chemical Society** **2018**, *140*, 44, 15022-15030.

123. J. Troyano, A. Carné-Sánchez, J. Pérez-Carvajal, L. León-Reina, I. Imaz, A. Cabeza, [D. Maspoch*](#). A self-folding polymer film based on swelling metal-organic frameworks. **Angewandte Chemie International Edition** **2018**, *57*, 15420-15424.

122. C. Avci-Camur, J. Perez-Carvajal, I. Imaz, [D. Maspoch*](#). Metal acetylacetonates as a source of metals for aqueous synthesis of metal-organic frameworks. **ACS Sustainable Chemistry Engineering** **2018**, *6*, 14554-14560.

121. V. Guillerme, T. Grancha, I. Imaz, J. Juanhuix, [D. Maspoch*](#). Zigzag ligands for transversal design in reticular chemistry: unveiling new structural opportunities for metal-organic frameworks. **Journal of the American Chemical Society** **2018**, *140*(32), 10153-10157.

120. C. Vignatti, J. Luis-Barrera, V. Guillerme, I. Imaz, R. Mas-Ballesté, J. Alemán, [D. Maspoch*](#). Squaramide-IRMOF-16 analogue for catalysis of solvent-free, epoxide ring-opening tandem and multicomponent reactions. **ChemCatChem** **2018**, *10*, 3995-3998.

119. C. Avci, A. Yazdi, M. Tarres, E. Bernoud, N.G. Bastús, V.F. Puentes, I. Imaz, X. Ribas, [D. Maspoch*](#). Sequential deconstruction-reconstruction of metal-organic frameworks: an alternative strategy for synthesizing (multi)-layered ZIF composites. **ACS Applied Material Interfaces** **2018**, *10*, 23952-23960.

118. C. Fuertes-Espinosa, A. Gómez-Torres, R. Morales-Martínez, A. Rodríguez-Forteza, C. García-Simón, F. Gándara, I. Imaz, J. Juanhuix, [D. Maspoch](#), J. M. Poblet, L. Echegoyen, X. Ribas. Purification of uranium-based endohedral metallofullerenes (EMFs) by selective supramolecular encapsulation and release. **Angewandte Chemie International Edition** **2018**, *57*, 11294-11299.

117. B. Chocarro-Ruiz, J. Perez-Carvajal, C. Avci, O. Calvo-Lozano, M. Isabel Alonso, [D. Maspoch*](#), L.M. Lechuga. A CO₂ optical sensor based on self-assembled metal-organic framework nanoparticles. **Journal of Materials Chemistry A** **2018**, 6, 13171.
116. W. Qian, A. González-Campo, A. Pérez-Rodríguez, S. Rodríguez-Hermida, I. Imaz, K. Wurst, [D. Maspoch](#), E. Ruiz, C. Ocal, E. Barrena, D.B. Amabilino, N. Aliaga-Alcalde. Boosting self-assembly diversity in the solid-state by chiral/ non-chiral ZnII-porphyrin crystallization. **Chemistry – A European Journal** **2018**, 24, 12950-12960.
115. J. Espín, L. Garzón-Tovar, G. Boix, I. Imaz, [D. Maspoch*](#). The photothermal effect in MOFs: covalent post-synthetic modification of MOFs mediated by UV-Vis light under solvent-free conditions. **Chemical Communications** **2018**, 4184-4187.
114. J. Albalad, H. Xu, F. Gándara, M. Haouas, C. Martineau-Corcós, R. Mas-Ballesté, S. Barnett, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Single-crystal-to-single-crystal post-synthetic modification of a metal-organic framework via ozonolysis. **Journal of the American Chemical Society** **2018**, 140, 2028–2031.
113. J. Espín, L. Garzón-Tovar, A. Carné-Sánchez, I. Imaz, [D. Maspoch*](#). Photothermal activation of metal-organic frameworks using a UV-Vis light source. **ACS Applied Materials & Interfaces** **2018**, 10, 9555–9562.
112. S. Rodriguez-Fernandez, I. Pujol-Autonell, F. Brioso, D. Perna-Barrull, M. Cano-Sarabia, S. Garcia-Jimeno, A. Villalba, A. Sanchez, E. Aguilera, F. Vazquez, J. Verdager, [D. Maspoch](#), M. Vives-Pi. Phosphatidylserine-liposomes promote tolerogenic features on dendritic cells in human type 1 diabetes by apoptotic mimicry. **Frontiers in Immunology** **2018**, 9, 253.
111. C. Avci-Camur, J. Troyano, J. Pérez-Carvajal, A. Legrand, D. Farrusseng, I. Imaz, [D. Maspoch*](#). Aqueous production of spherical Zr-MOF beads via continuous-flow spray-drying. **Green Chemistry** **2018**, 20, 873.
110. C. Avci, I. Imaz, A. Carné-Sánchez, J. A. Pariente, N. Tasios, J. Pérez-Carvajal, M. I. Alonso, A. Blanco, M. Dijkstra, C. Lopez, [D. Maspoch*](#). Self-Assembly of polyhedral metal-organic framework particles into three-dimensional ordered superstructures. **Nature Chemistry** **2018**, 10, 78-84.
109. J. Troyano, O. Castillo, J. L. Martínez, V. Fernández-Moreira, Y. Ballesteros, [D. Maspoch*](#), F. Zamora, S. Delgado. Reversible thermochromic polymeric thin-films made of ultrathin two-dimensional crystals of coordination polymers based on copper(I)-thiophenolates. **Advanced Functional Materials** **2018**, 28, 1704040.
108. S. Fernández-de-Retana, M. Cano-Sarabia, P. Marazuela, J. L. Sánchez-Quesada, A. Garcia-Leon, A. Montañola, J. Montaner, [D. Maspoch](#), M. Hernández-Guillamon. Characterization of ApoJ-reconstituted high-density lipoprotein (rHDL) nanodisc for the potential treatment of cerebral β -amyloidosis. **Scientific Reports** **2017**, 7, 14637.
107. C. Orellana-Tavra, S. Haddad, R. J. Marshall, I. Abanades Lazaro, G. Boix, I. Imaz, [D. Maspoch](#), R. S. Forgan, D. Fairen-Jimenez. Tuning the endocytosis mechanism of Zr-based MOFs through linker functionalisation. **ACS Applied Materials Interfaces** **2017**, 9, 35516–35525.
106. L. Garzón-Tovar, C. Avci-Camur, D. Rodríguez-San-Miguel, I. Imaz, F. Zamora, [D. Maspoch*](#). Spray drying for making covalent chemistry II: synthesis of covalent–organic framework superstructures and related composites. **Chemical Communications** **2017**, 53, 11372-11375.

105. S. Rodríguez-Hermida, E. Evangelio, M. Rubio-Martínez, I. Imaz, A. Verdager, J. Juanhuix, [D. Maspoch*](#). Leucine zipper motif inspiration: a two-dimensional leucine velcro-like array in peptide coordination polymers generates hydrophobicity. **Dalton Transactions** **2017**, 46, 11166–11170.
104. A. Yazdi, A. Abo Markeb, L. Garzón-Tovar, J. Patarroyo, J. Moral-Vico, A. Alonso, A. Sánchez, N. Bastus, I. Imaz, X. Font, V. Puentes, [D. Maspoch*](#). Core-shell Au/CeO₂ nanoparticles supported in UiO-66 beads exhibiting full CO conversion at 100 °C. **Journal of Materials Chemistry A** **2017**, 5, 13966–13970.
103. D. Rodríguez-San-Miguel, A. Yazdi, V. Guillerm, J. Pérez-Carvajal, V. Puentes, [D. Maspoch*](#), F. Zamora. Confining functional nanoparticles into colloidal imine-based COF spheres by a sequential encapsulation-crystallization method. **Chemistry – A European Journal** **2017**, 23, 8623 – 8627.
102. J. Dhainaut, C. Avci-Camur, J. Troyano, A. Legrand, J. Canivet, I. Imaz, [D. Maspoch](#), H. Reinsch, D. Farrusseng. Systematic study of the impact of MOF densification into tablets on textural and mechanical properties. **CrystEngComm** **2017**, 19, 4211–4218.
101. M. Rubio-Martínez, C. Avci-Camur, A. Thorton, I. Imaz, [D. Maspoch](#), M. R. Hill. New synthetic routes towards MOF production at scale. **Chemical Society Reviews** **2017**, 46, 3453–3480.
100. I. Pujol-Autonell, M. J. Mansilla, S. Rodríguez-Fernandez, J. Navarro-Barriuso, A. Rius, R. M. Ampudia, D. Perna, M. Cano-Sarabia, E. Martínez-Cáceres, [D. Maspoch](#), M. Vives-Pi. Liposome-based immunotherapy against autoimmune diseases: therapeutic effect on multiple sclerosis. **Nanomedicine: Nanotechnology, Biology and Medicine** **2017**, 12 (11), 1234–1242.
99. V. Guillerm, L.C. Garzón-Tovar, A. Yazdi, I. Imaz, J. Juanhuix, [D. Maspoch*](#). Continuous one-step synthesis of porous M-XF₆-based metal-organic and hydrogen-bonded frameworks. **Chemistry – A European Journal** **2017**, 23, 6829 – 6835.
98. L. Garzón-Tovar, J. Pérez-Carvajal, I. Imaz, [D. Maspoch*](#). Composite salt in porous Metal-Organic Frameworks for adsorption heat transformation. **Advanced Functional Materials** **2017**, 1606424.
97. J. Colom, M. Cano-Sarabia, J. Otero, J. Arriñez-Soriano, P. Cortés, [D. Maspoch](#), M. Llagostera. Microencapsulation with alginate/CaCO₃: A strategy for improved phage therapy. **Scientific Reports** **2017**, 7, 41441.
96. L. Garzón-Tovar, S. Rodríguez-Hermida, I. Imaz, [D. Maspoch*](#). Spray drying for making covalent chemistry: postsynthetic modification of Metal–Organic Frameworks. **Journal of the American Chemical Society** **2017**, 139(2), 897–903.
95. M.Y. Tsang, S. Rodríguez-Hermida, K. Stylianou, F. Tan, D. Negi, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, M. Guerrero, J. Sort, J. Juanhuix, [D. Maspoch*](#), J. Giner Planas. Carborane bis-pyridylalcohols as linkers for coordination polymers: synthesis, crystal structures and guest-framework dependent mechanical properties. **Crystal Growth & Design** **2017**, 17(2), 846–857.
94. S. Rodríguez-Hermida, M. Y. Tsang, C. Vignatti, K. Stylianou, V. Guillerm, J. Pérez-Carvajal, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, I. Peral, J. Juanhuix, A. Verdager, I. Imaz, [D. Maspoch*](#), J. Giner-Planas. Switchable surface hydrophobicity-hydrophilicity of a Metal-Organic Framework. **Angewandte Chemie International Edition** **2016**, 55(52), 16049–16053.

93. A. Yazdi, F. Merkoci, N. G. Bastús, I. Imaz, V. Puentes, [D. Maspoch*](#). The influence of the MOF shell thickness in the catalytic performance of composites made of inorganic (hollow) nanoparticles encapsulated into MOFs. **Catalysis Science & Technology** **2016**, *6*, 8388-8391.
92. J. Albalad, J. Aríñez-Soriano, J. Vidal-Gancedo, V. Lloveras, J. Juanhuix, I. Imaz, N. Aliaga-Alcalde, [D. Maspoch*](#). Hetero-bimetallic paddlewheel clusters in coordination polymers formed by a water-induced single-crystal-to-single-crystal transformation. **Chemical Communications** **2016**, 52(91), 13397-13400.
91. H. Xu, S. Rodríguez-Hermida, J. Pérez-Carvajal, J. Juanhuix, [D. Maspoch*](#). A first cyclodextrin-transition metal coordination polymer. **Crystal Growth & Design** **2016**, *16*(10), 5598-5602.
90. V. Safarifard, S. Rodríguez-Hermida, V. Guillermin, I. Imaz, M. Bigdeli, A. A. Tehrani, J. Juanhuix, A. Morsali, M. E. Casco, J. Silvestre-Albero, E. V Ramos-Fernandez, [D. Maspoch*](#). The influence of the amide groups in the CO₂/N₂ selectivity of a series of isorecticular, interpenetrated metal-organic frameworks. **Crystal Growth & Design** **2016**, *16*(10), 6016-6023.
89. L. Garzón-Tovar, M. Cano-Sarabia, A. Carné-Sánchez, C. Carbonell, I. Imaz, [D. Maspoch*](#). A spray-drying continuous-flow method for simultaneous synthesis and shaping of microspherical high nuclearity MOF beads. **Reaction Chemistry & Engineering** **2016**, *1*, 533-539.
88. J. Aríñez-Soriano, J. Albalad, A. Carné-Sánchez, C. S. Bonnet, F. Busqué, J. Lorenzo, J. Juanhuix, M. W. Terban, I. Imaz, E. Tóth, [D. Maspoch*](#). pH-responsive relaxometric behaviour of coordination polymer nanoparticles made of a stable macrocyclic gadolinium chelate. **Chemistry – A European Journal** **2016**, *22*(37), 13162-13170.
87. J. Espín, R. Zarzuela, N. Statuto, J. Juanhuix, [D. Maspoch](#), I. Imaz, E. Chudnovsky. J. Tejada. Narrowing the zero-field tunneling resonance by decreasing the crystal symmetry of Mn₁₂ acetate. **Journal of the American Chemical Society** **2016**, *138*(29), 9065-9068.
86. M. Rubio-Martínez, I. Imaz, N. Domingo, A. Abrishamkar, T. Sotto Mayor, R. M. Rossi, C. Carbonell, A. J. deMello, D. B. Amabilino, [D. Maspoch*](#), J. Puigmartí-Luis. Freezing the nonclassical crystal growth of a coordination polymer using controlled dynamic gradients. **Advanced Materials** **2016**, *28*(37), 8150-8155.
85. J. Aríñez-Soriano, J. Albalad, C. Vila-Parrondo, J. Pérez-Carvajal, S. Rodríguez-Hermida, A. Cabeza, J. Juanhuix, I. Imaz, [D. Maspoch*](#). Single-crystal and humidity-controlled powder diffraction study of the breathing effect in a metal-organic framework upon water adsorption/desorption. **Chemical Communications** **2016**, 52(45), 7229-7232.
84. M. Campos-Martorell, M. Cano-Sarabia, A. Simats, M. Hernández-Guillamon, A. Rosell, [D. Maspoch](#), J. Montaner. Charge effect of a liposomal delivery system encapsulating simvastatin to treat experimental ischemic stroke in rats. **International Journal of Nanomedicine** **2016**, *11*, 3035-3048.
83. J. Tejada, R. Zarzuela, A. García-Santiago, I. Imaz, J. Espín, [D. Maspoch](#), E. M. Chudnovsky. Enhanced spin tunneling in a molecular magnet mixed with a superconductor. **Journal of Superconductivity and Novel Magnetism** **2016**, *29*(5), 1133-1137.
82. A. Ayala, C. Carbonell, I. Imaz, [D. Maspoch*](#). Introducing asymmetric functionality into MOFs via the generation of metallic Janus MOF particles. **Chemical Communications** **2016**, 52(29), 5096-5099.

81. J. Ariñez-Soriano, J. Albalad, J. Pérez-Carvajal, I. Imaz, F. Busqué, J. Juanhuix, [D. Maspoch*](#). Two-step synthesis of heterometallic coordination polymers using a polyazamacrocyclic linker. **CrystEngComm** **2016**, *18*, 4196-4204.
80. P. Falcaro, R. Ricco, A. Yazdi, I. Imaz, S. Furukawa, [D. Maspoch](#), R. Ameloot, J. D. Evans, C. J. Doonan. Application of metallic and metal oxide nanoparticles@MOFs. **Coordination Chemistry Reviews** **2016**, *307*(2) 237-254.
79. C. Avci, J. Ariñez-Soriano, A. Carné-Sánchez, V. Guillerm, C. Carbonell, I. Imaz, [D. Maspoch*](#). Post-synthetic anisotropic wet-chemical etching of colloidal sodalite ZIF crystals. **Angewandte Chemie International Edition** **2015**, *54*(48), 14417-14421.
78. K. Liang, C. Carbonell, M. J. Styles, R. Ricco, J. Cui, J. J. Richardson, [D. Maspoch](#), F. Caruso, P. Falcaro. Biomimetic replication of microscopic Metal-Organic Framework patterns using printed protein patterns. **Advanced Materials** **2015**, *27*(45), 7293-7298.
77. L. Garzón-Tovar, A. Carné-Sánchez, C. Carbonell, I. Imaz, [D. Maspoch*](#). Optimised room temperature, water-based synthesis of CPO-27-M metal-organic frameworks with high Space-Time Yields. **Journal of Materials Chemistry A** **2015**, *3*(41), 20819-20826.
76. S. García-Jimeno, M. Cano-Sarabia, N. Mejías, V. Navarro, A. Belén Frances, [D. Maspoch*](#). Healing damaged coatings using friction-sensitive hybrid microcapsules. **Journal of Materials Chemistry A** **2015**, *3*(35), 17966-17970.
75. I. Burneo, K. C. Stylianou, S. Rodríguez-Hermida, J. Juanhuix, X. Fontrodona, I. Imaz, [D. Maspoch*](#). Two new adenine-based Co(II) coordination polymers: synthesis, crystal structure, coordination modes and reversible hydrochromic behavior. **Crystal Growth & Design** **2015**, *15*(7), 3182-3189.
74. K. C. Stylianou, L. Gómez, I. Imaz, C. Verdugo-Escamilla, X. Ribas, [D. Maspoch*](#). Engineering homochiral MOFs by spatially separating 1D chiral metal-peptide ladders: tuning the pore size for enantioselective adsorption. **Chemistry – A European Journal** **2015**, *21*(28), 9964-9969.
73. A. de la Peña Ruigómez, D. Rodríguez-San-Miguel, K. C. Stylianou, M. Cavallini, D. Gentili, F. Liscio, S. Milita, O.M. Roscioni, C. Carbonell, [D. Maspoch*](#), R. Mas-Ballesté, J.L. Segura, F. Zamora. Direct on-surface patterning of a crystalline laminar covalent organic framework synthesized at room temperature. **Chemistry – A European Journal** **2015**, *21*(30), 10666-10670.
72. J. Colom, M. Cano-Sarabia, J. Otero, P. Cortés, [D. Maspoch*](#), M. Llagostera. Liposome-encapsulated bacteriophages for enhanced oral phage therapy against *Salmonella*. **Applied Environmental Microbiology** **2015**, *81*(14), 4841-4849.
71. I. Pujol-Autonell, A. Serracant, M. Cano-Sarabia, R. M. Ampudia, A. Sanchez, M. Puig-Domingo, [D. Maspoch](#), J. Verdager, M. Vives-Pi. Use of autoantigen-loaded phosphatidylserine-liposomes to arrest autoimmunity in type 1 diabetes. **PLoS ONE** **2015**, *10*(6), e0127057.
70. Z. Wang, D. Ananias, A. Carné-Sánchez, C. D. S. Brites, I. Imaz, [D. Maspoch](#), J. Rocha, L. D. Carlos. Lanthanide-organic framework nanothermometers prepared by spray-drying. **Advanced Functional Materials** **2015**, *25*(19), 2824-2830.
69. À. Ruyra, A. Yazdi, J. Espín, A. Carné-Sánchez, N. Roher, J. Lorenzo, I. Imaz, [D. Maspoch*](#). Synthesis, culture medium stability, and in vitro and in vivo zebrafish embryo toxicity of Metal-Organic Framework nanoparticles. **Chemistry – A European Journal** **2015**, *21*, 2508-2518.

68. A. Carné-Sánchez, K. C. Stylianou, C. Carbonell, M. Naderi, I. Imaz, [D. Maspoch*](#). Protecting Metal-Organic Framework crystals from hydrolytic degradation by spray-dry encapsulating them into polystyrene microspheres. **Advanced Materials** **2015**, 27(5), 869-873.
67. S. Lendínez, R. Zarzuela, J. Tejada, M. W. Terban, S. J. L. Billinge, J. Espín, I. Imaz, [D. Maspoch](#), E. M. Chudnovsky. Resonant spin tunneling in randomly oriented nanospheres of Mn₁₂ acetate. **Physical Review B** **2015**, 91, 024404.
66. I. Burneo, K. C. Stylianou, I. Imaz, [D. Maspoch*](#). The influence of the enantiomeric ratio of an organic ligand on the structure and chirality of Metal-Organic Frameworks. **Chemical Communications** **2014**, 50 (89), 13829-13832.
65. C. García-Simón, M. Garcia-Borràs, L. Gómez, T. Parella, S. Osuna, J. Juanhuix, I. Imaz, [D. Maspoch](#), M. Costas, X. Ribas. Sponge-like molecular cage for purification of fullerenes. **Nature Communications** **2014**, 5, 5557.
64. A. Ruyra, M. Cano-Sarabia, P. García-Valtanan, D. Yero, I. Gibert, S.A. Mackenzie, A. Estepa, [D. Maspoch](#), N. Roher. Targeting and stimulation of the zebrafish (*Danio rerio*) innate immune system with LPS/dsRNA-loaded nanoliposomes. **Vaccine** **2014**, 32, 3955-3962.
63. M. Y. Masoomi, K. C. Stylianou, A. Morsali, P. Retailleau, [D. Maspoch*](#). Selective CO₂ capture in metal-organic frameworks with azine-functionalized pores generated by mechanosynthesis. **Crystal Growth & Design** **2014**, 14 (5), 2092-2096.
62. A. Carné-Sánchez, I. Imaz, K. Stylianou, [D. Maspoch*](#). MOFs: from molecules/metal ions to crystals to superstructures. **Chemistry – A European Journal** **2014**, 20, 5192-5201.
61. J. Puigmartí-Luis, M. Rubio-Martínez, I. Imaz, B. Z. Cvetković, L. Abad, A. Pérez del Pino, [D. Maspoch](#), D. B. Amabilino. Localized. stepwise template growth of functional nanowires from an amino acid-supported framework in a microfluidic chip. **ACS Nano** **2014**, 8, 818-826.
60. A. Carné-Sánchez, C. S. Bonnet, I. Imaz, J. Lorenzo, É. Tóth, [D. Maspoch*](#). Relaxometry studies of a highly stable nanoscale metal-organic framework made of Cu(II), Gd(III) and the macrocyclic DOTP. **Journal of the American Chemical Society** **2013**, 135, 17711-17714.
59. A. Ruyra, M. Cano-Sarabia, S. A. Mackenzie, [D. Maspoch*](#), N. Roher. A novel liposome-based nanocarrier loaded with an LPS-dsRNA cocktail for fish innate immune system stimulation. **PLoS ONE** **2013**, 8, 10, e76338.
58. C. Carbonell, K. Stylianou, J. Hernando, E. Evangelio, S. A. Barnett, S. Nettikadan, I. Imaz, [D. Maspoch*](#). Femtolitre chemistry assisted by Tip-Based Nanolithography. **Nature Communications** **2013**, 4, 2173.
57. M. Rubio-Martínez, J. Puigmartí-Luis, I. Imaz, P. S. Dittrich, [D. Maspoch*](#). “Dual-Template” synthesis of one-dimensional conductive nanoparticle superstructures from coordination metal-peptide polymer crystals. **Small** **2013**, 9, 4160-4167.
56. A. Carné-Sánchez, I. Imaz, M. Cano-Sarabia, [D. Maspoch*](#). A spray-drying strategy for the synthesis of nanoscale metal-organic frameworks and their assembly into hollow superstructures. **Nature Chemistry** **2013**, 5, 203-211.
55. C. García-Simón, M. Garcia-Borràs, L. Gómez, I. Garcia-Bosch, S. Osuna, M. Swart, J.M. Luis, C. Rovira, M. Almeida, I. Imaz, [D. Maspoch](#), M. Costas, X. Ribas. Self-assembled tetragonal

prismatic molecular cage highly selective for anionic guests. **Chemistry – A European Journal** **2013**, *19*, 1445-1456.

54. A. Datcu, N. Roques, V. Jubera, [D. Maspoch](#), X. Fontrodona, K. Wurst, I. Imaz, G. Mouchaham, J.-P. Sutter, C. Rovira, J. Veciana. Three-dimensional porous metal-radical frameworks based on triphenylmethyl radicals. **Chemistry – A European Journal** **2012**, *18*, 152-162.

53. I. Imaz, M. Rubio-Martínez, J. An, I. Solè-Font, N. Rosi, [D. Maspoch*](#). Metal-biomolecule frameworks. **Chemical Communications** **2011**, *47*, 7287-7302, **Journal Cover**.

52. A. Martínez-Otero, P. González-Monje, [D. Maspoch](#), J. Hernando, D. Ruiz-Molina. Multiplexed arrays of chemosensors by parallel dip-pen nanolithography. **Chemical Communications** **2011**, *47*, 6864-6866.

51. J. Puigmartí-Luis, M. Rubio-Martínez, U. Hartfelder, I. Imaz, [D. Maspoch*](#), P. S. Dittrich*. Coordination polymer nanofibers generated by microfluidic synthesis. **Journal of the American Chemical Society** **2011**, *133*, 4216-4219.

50. A. Datcu, N. Roques, V. Jubera, I. Imaz, [D. Maspoch](#), J.-P. Sutter, C. Rovira, J. Veciana. Three-dimensional open-frameworks based on Ln(III) ions and open/closed-shell PTM ligands: synthesis, structure, luminescence and magnetic properties. **Chemistry – A European Journal** **2011**, *17* (13), 3644-3656.

49. C. Carbonell, I. Imaz, [D. Maspoch*](#). Single-crystal metal-organic frameworks arrays. **Journal of the American Chemical Society** **2011**, *133*, 2144-2147.

48. P. Kuhn, J. Puigmartí-Luis, I. Imaz, [D. Maspoch](#), P.S. Dittrich. Controlling the length and location of in situ formed nanowires by means of microfluidic tools. **Lab on a Chip** **2011**, *11*, 753-757.

47. A. Carné, C. Carbonell, I. Imaz, [D. Maspoch*](#). Nanoscale metal-organic materials. **Chemical Society Reviews** **2011**, *40*, 291-305, Invited Review. During December 2010, this article was among the top ten accessed articles from the online version of ChemSocRev.

46. I. Imaz, M. Rubio-Martínez, L. García-Fernández, F. García, D. Ruiz-Molina, J. Hernando, V. Puentes, [D. Maspoch*](#). Coordination polymer particles as potential drug delivery systems. **Chemical Communications** **2010**, *46*, 4737-4739.

45. N. Roques, N. Domingo, [D. Maspoch](#), K. Wurst, C. Rovira, J. Tejada, D. Ruiz-Molina, J. Veciana. Metal-radical chains based on polychlorotriphenylmethyl radicals: synthesis, structure and magnetic properties. **Inorganic Chemistry** **2010**, *49*, 3482-3488.

44. E. Bellido, R. de Miguel, J. Sesé, D. Ruiz-Molina, A. Lostao, [D. Maspoch*](#). Nanoscale positioning of inorganic nanoparticles using biological ferritin arrays fabricated by Dip-Pen Nanolithography. **Scanning** **2010**, *32*, 35-41, Invited manuscript to the issue “Advancing DPN”.

43. E. Bellido, R. de Miguel, D. Ruiz-Molina, A. Lostao, [D. Maspoch*](#). Controlling the number of proteins with Dip-Pen Nanolithography. **Advanced Materials** **2010**, *22*, 352-355.

42. I. Imaz, M. Rubio-Martínez, W. J. Saletta, D. Amabilino, [D. Maspoch*](#). Amino acid-based metal-organic nanofibers. **Journal of the American Chemical Society** **2009**, *131*, 18222-18223.

41. I. Imaz, J. Hernando, D. Ruiz-Molina, [D. Maspoch*](#). Metal-organic spheres as functional systems for guest encapsulation. **Angewandte Chemie International Edition** **2009**, *48*, 2325-2329, **Journal Cover**.

40. Y. Wang, W. Wei, [D. Maspoch](#), J. Wu, V. Dravid, C. A. Mirkin. Superparamagnetic sub-5 nm Fe@C Nanoparticles: isolation, magnetic properties and directed assembly. **NanoLetters** **2008**, *8*, 3761-3765.
39. A. Martínez-Otero, J. Hernando, D. Ruiz-Molina, [D. Maspoch*](#). pH-responsive fluorescent nanoarrays fabricated by direct-write parallel Dip-Pen Nanolithography. **Small** **2008**, *4*, 2131-2135.
38. C. Carbonera, I. Imaz, [D. Maspoch](#), D. Ruiz-Molina, F. Luis. Magnetic behaviour of Mn₁₂ single molecule magnet nanospheres. **Inorganica Chimica Acta** **2008**, *361*, 3951-3956.
37. N. Roques, [D. Maspoch](#), I. Imaz, A. Datcu, J.-P. Sutter, C. Rovira, J. Veciana. A three-dimensional lanthanide-organic radical open-framework. **Chemical Communications** **2008**, 3160-3162.
36. E. Evangelio, J. Saiz, [D. Maspoch](#), K. Wurst, F. Busqué, D. Ruiz-Molina. Synthesis, X-ray structure and reactivity of a sterically protected azobisphenol ligand and its Co(III) complex: on the quest for new multifunctional active ligands. **European Journal of Inorganic Chemistry** **2008**, 2278-2285.
35. J.-W. Jang, R. Sanedrin, [D. Maspoch](#), S. Hwang, T. Fujigaya, Y. M. Jeon, R. Vega, X. Chen, C. A. Mirkin. Electrically biased nanolithography with KOH coated AFM tips. **NanoLetters** **2008**, *8*, 1451-1455.
34. I. Imaz, [D. Maspoch](#), C. Rodríguez-Blanco, J. M. Pérez-Falcón, J. Campo, D. Ruiz-Molina. Valence tautomeric metal-organic nanoparticles. **Angewandte Chemie International Edition** **2008**, *47*, 1857-1860.
33. I. Imaz, F. Luis, C. Carbonera, D. Ruiz-Molina, [D. Maspoch*](#). Single-molecule magnet behaviour in metal-organic nanoparticles generated by direct precipitation of Mn₁₂O₁₂ clusters. **Chemical Communications** **2008**, 1202-1204.
32. N. Roques, [D. Maspoch](#), F. Luis, A. Camón, K. Wurst, C. Rovira, D. Ruiz-Molina, J. Veciana. A hexacarboxylic open-shell building block: synthesis, structure and magnetism of a three-dimensional metal-radical framework. **Journal of Materials Chemistry** **2008**, *18*, 98-108.
31. V. K. Kutala, F. A. Villamena, G. Llangovan, [D. Maspoch](#), N. Roques, J. Veciana, C. Rovira, P. Kuppusamy. Reactivity of superoxide anion radical with a perchlorotriphenylmethyl(trityl) radical. **Journal of Physical Chemistry B** **2008**, *112*, 158-167.
30. R. A. Vega, C. K.-F. Shen, [D. Maspoch](#), J. Robach, R. A. Lamb, C. A. Mirkin. Monitoring single cell infectivity from virus-particle nanoarrays fabricated by parallel Dip-Pen Nanolithography. **Small** **2007**, *3*, 1482-1485, Highlighted in Nature Nanotechnology.
29. [D. Maspoch](#), N. Domingo, N. Roques, K. Wurst, J. Tejada, C. Rovira, D. Ruiz-Molina, J. Veciana. Structural and magnetic modulation of a purely organic open-framework by selective guest inclusion. **Chemistry – A European Journal** **2007**, 8153-8163.
28. N. Roques, S. Perruchas, [D. Maspoch](#), A. Datcu, K. Wurst, J.-P. Sutter, C. Rovira, J. Veciana. Europium (III) complexes derived from carboxylic substituted polychlorotriphenylmethyl radicals. **Inorganica Chimica Acta** **2007**, *360*, 3861-3869.
27. J.-W. Jang, [D. Maspoch](#), T. Fujigaya, C. A. Mirkin. A “molecular eraser” for Dip-Pen Nanolithography. **Small** **2007**, *3*, 600-605.

26. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, K. Wurst, F. Lloret, J. Tejada, C. Rovira, J. Veciana. First-row transition metal complexes based on a carboxylate polychlorotriphenylmethyl radical: Trends in metal-radical exchange interactions. **Inorganic Chemistry** **2007**, *46*, 1627-1633.
25. S. Zou, [D. Maspoch](#), Y. Wang, C. A. Mirkin, G. C. Schatz. Rings of single-walled carbon nanotubes: Molecular-template directed assembly and Monte Carlo modeling. **NanoLetters** **2007**, *7*, 276-280.
24. N. Roques, [D. Maspoch](#), A. Datcu, K. Wurst, D. Ruiz-Molina, C. Rovira, J. Veciana. Self-assembly of carboxylic substituted PTM radicals: from weak ferromagnetic interactions to robust porous magnets. **Polyhedron** **2007**, *26*, 1934-1948.
23. [D. Maspoch](#), D. Ruiz-Molina, J. Veciana. Old materials with new tricks: Multifunctional porous materials. **Chemical Society Reviews** **2007**, *36*, 770-818.
22. R. A. Vega, [D. Maspoch](#), C. K.-F. Shen, J. Kakkassary, B. Chan, R. A. Lamb, C. A. Mirkin. Functional antibody arrays through metal ion affinity templates. **ChemBioChem** **2006**, *7*, 1653-1657.
21. N. Roques, [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. Three-dimensional six-connecting organic building-blocks based on polychlorotriphenylmethane motives: synthesis, self-assembly and magnetic properties. **Chemistry – A European Journal** **2006**, *12*, 9238-9253.
20. X. Ribas, [D. Maspoch](#), O. Armet, K. Wurst, J. Veciana, C. Rovira. Coordination capabilities of a novel organic polychlorotriphenylmethyl monosulfonate radical. **Inorganic Chemistry** **2006**, *45*, 5383-5392.
19. Y. Wang, [D. Maspoch](#), S. Zou, G. C. Schatz, R. E. Smalley, C. A. Mirkin. Controlling the shape, orientation and linkage of carbon nanotube features with nano affinity templates. **Proceedings National Academy of Science** **2006**, *103*, 2026-2031.
18. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, K. Wurst, J. M. Hernández, G. Vaughan, C. Rovira, F. Lloret, J. Tejada, J. Veciana. Coexistence of ferro- and antiferromagnetic interactions in a metal-organic radical-based (6,3)-helical network with large channels. **Chemical Communications** **2005**, 5035-5037.
17. N. Roques, [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, K. Wurst, J. Tejada, C. Rovira, J. Veciana. Hydrogen-bonded self-assemblies in a polychlorotriphenylmethyl radical derivative substituted with six meta-carboxylic acid groups. **Chemical Communications** **2005**, 4801-4803.
16. R. A. Vega, [D. Maspoch](#), K. Salaita, C. A. Mirkin. Nanoarrays of single virus particles. **Angewandte Chemie International Edition** **2005**, *44*, 6013-6015.
15. K. Salaita, A. Amarnath, [D. Maspoch](#), T.B. Higgins, C. A. Mirkin. Spontaneous "phase separation" of patterned binary alkanethiol mixtures. **Journal of the American Chemical Society** **2005**, *127*, 11283-11287.
14. [D. Maspoch](#), J. Gómez-Segura, N. Domingo, D. Ruiz-Molina, K. Wurst, C. Rovira, J. Tejada, J. Veciana. An unusually stable trinuclear manganese (II) complex bearing bulk carboxylic radical ligands. **Inorganic Chemistry** **2005**, *44*, 6936-6939.

13. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, K. Wurst, J. Tejada, C. Rovira, J. Veciana. Carboxylic-substituted polychlorotriphenylmethyl radicals, new organic building-blocks to design nanoporous magnetic molecular materials. **Comptes Rendus Chimie** **2005**, 8, 1213-1225.
12. X. Ribas, [D. Maspoch](#), J. Dias, J. Morgado, M. Almeida, K. Wurst, G. Vaughan, J. Veciana, C. Rovira. 2D layered coordination polymer based on an unusual mixed valence Cu(III)/Cu(I)bis-1,2-diselenolene compound. **CrystEngComm** **2004**, 6, 589-592.
11. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, G. Vaughan, K. Wurst, J. Tejada, C. Rovira, J. Veciana. Open-shell channel-like salts formed by the supramolecular assembly of a tricarboxylated perchlorotriphenylmethyl radical and a $[\text{Co}(\text{bpy})_3]^{2+}$ cation. **CrystEngComm** **2004**, 6, 573-578.
10. [D. Maspoch](#), D. Ruiz-Molina, J. Veciana. Magnetic nanoporous coordination polymers. **Journal of Materials Chemistry** **2004**, 14, 2713-2723, **Journal Cover**.
9. [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. A new $(6^3),(6^9,8^1)$ non-interpenetrated paramagnetic network with helical nanochannels based on a tricarboxylic perchlorotriphenylmethyl radical. **Chemical Communications** **2004**, 1165-1166.
8. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, G. Vaughan, K. Wurst, J. Tejada, C. Rovira, J. Veciana. A robust purely organic nanoporous magnet. **Angewandte Chemie International Edition** **2004**, 43, 1828-1832.
7. [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. Synthesis, structural and magnetic properties of a series of copper (II) complexes containing a monocarboxylated perchlorotriphenylmethyl radical as a coordinating open-shell ligand. **Dalton Transactions** **2004**, 1073-1082.
6. [D. Maspoch](#), N. Domingo, D. Ruiz-Molina, K. Wurst, J. Tejada, C. Rovira, J. Veciana. A robust nanocontainer based on a pure organic free radical. **Journal of the American Chemical Society** **2004**, 126, 730-731.
5. [D. Maspoch](#), J. Vidal-Gancedo, D. Ruiz-Molina, C. Rovira, J. Veciana. EPR characterization of a nanoporous metal-organic framework exhibiting a bulk magnetic ordering. **Journal of Physics and Chemistry of Solids** **2004**, 65, 819-824.
4. [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, N. Domingo, M. Cavallini, F. Biscarini, J. Tejada, C. Rovira, J. Veciana. A nanoporous molecular magnetic with reversible solvent-induced mechanical and magnetic properties. **Nature Materials** **2003**, 2, 190-195..
3. [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. Synthesis, X-Ray structure and magnetic properties of an unusual transition Co (II) complex with polychlorotriphenylmethyl radicals. **Polyhedron** **2003**, 22, 1929-1934.
2. [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. A very bulky carboxylic perchlorotriphenylmethyl radicals as a novel ligand for transition metal complexes. A new spin frustrated system. **Chemical Communications** **2002**, 2958-2959.
1. [D. Maspoch](#), L. Catala, P. Gerbier, J. Vidal-Gancedo, D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana. Radical para-benzoic acid derivatives: transmission of ferromagnetic interactions through hydrogen bonds at long distances. **Chemistry – A European Journal** **2002**, 8, 3635-3645.

Publications – Book chapters

6. AUTHORS (in order of authorship): P. Cortés, M. Cano-Sarabia, J. Colom, J. Otero, [D. Maspoch](#), M. Llagostera
TITLE: Nano/Micro formulations for bacteriophage delivery
BOOK: **Springer Book in Phage Therapy 2018**, Springer.
5. AUTHORS (in order of authorship): K. Stylianou, I. Imaz, [D. Maspoch*](#)
TITLE: Nanoscale metal-organic frameworks.
BOOK: **Metal-Organic Frameworks Materials, Encyclopedia of Inorganic and Biorganic Chemistry 2014**, Wiley.
4. AUTHORS (in order of authorship): J. Pascual, A. Merkoçi, [D. Maspoch](#), V. Puentes, A. Conill
TITLE: Nanotecnología: conceptos y fundamentos.
BOOK: **Tecnología NAB en Medicina 2012**, Celgene.
3. AUTHORS (in order of authorship): M. Cano-Sarabia, [D. Maspoch*](#)
TITLE: Nanoencapsulation.
BOOK: **Encyclopedia of Nanotechnology 2012**, Springer.
2. AUTHORS (in order of authorship): I. Imaz, [D. Maspoch*](#)
TITLE: Self-assembly of coordination chains and helices.
BOOK: **Supramolecular Chemistry: From molecules to Nanomaterials 2012**, Wiley.
1. AUTHORS (in order of authorship): [D. Maspoch](#), D. Ruiz-Molina, J. Veciana
TITLE: Magnetic nanoporous molecular materials.
BOOK: **Magnetism: Molecules to Materials V 2005**, Wiley.

Licensed Patents

4. INVENTORS (in order of authorship): [D. Maspoch](#), M. Cano-Sarabia, M. Vives-Pi, I. Pujol, J. Verdaguer

TITLE: Liposome-based immunotherapy.

APPLICATION FORM N°: EP 14151629

PRIORITY COUNTRY: Spain

PRIORITY DATE: 17/01/2014

HOLDER ENTITY: Fundació Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol; Institut Català de Nanociència i Nanotecnologia ICREA

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

This patent was licensed to a private company (Ahead Therapeutics S.L) in 2017.

3. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, L.C. Garzón Tovar

TITLE: Method for the preparation of metal organic frameworks

APPLICATION FORM N°: EP16382120.0

PRIORITY COUNTRY: Spain

PRIORITY DATE: 18/03/2016

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

This patent was licensed to a private company (MOFapps) in 2016.

2. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, A. Carné, M. Cano-Sarabia

TITLE: Method for the preparation of metal organic frameworks.

APPLICATION FORM N°: EP 11183773.8

PRIORITY COUNTRY: Spain

PRIORITY DATE: 04/10/2011

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

This patent was licensed to a private company (MOFapps) in 2015.

1. INVENTORS (in order of authorship): [D. Maspoch](#), V. Ausina, Á. Hernández, G. Martorell, M. Cano-Sarabia

TITLE: Biocidal composition with dual immediate and remnant activity.

APPLICATION FORM N°: ES201790025A

PRIORITY COUNTRY: Spain

PRIORITY DATE: 05/12/2014

HOLDER ENTITY: Universitat Autònoma de Barcelona; Institut Català de Nanociència i Nanotecnologia; DESPRO, ICREA

This patent was licensed to a private company (Despro S.L.) in 2013.

Filed Patents

12. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, D. Farrusseng, N. Seidenader

TITLE: Process for the synthesis of HKUST-1 metal organic frameworks

APPLICATION FORM N°: EP24306754.3

PRIORITY COUNTRY: Spain

PRIORITY DATE: 21/10/2024

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA; Centre National de la Recherche Scientifique (CNRS); MOF APPS AS; Universite Claude Bernard Lyon 1 (UCBL)

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

11. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, G. Pena, J. Albalad

TITLE: Synthesis of paracetamol via spray-drying

APPLICATION FORM N°: EP24383065.0

PRIORITY COUNTRY: Spain

PRIORITY DATE: 02/10/2024

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

10. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, J. Albald, R. Sánchez, J. P. Cavaliere

TITLE: Synthesis of organic macrocycles through clip-off chemistry

APPLICATION FORM N°: EP24382846.4

PRIORITY COUNTRY: Spain

PRIORITY DATE: 31/07/2024

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; CSIC; ICREA.

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

9. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, D. Farrusseng, N. Seidenader

TITLE: Process for the synthesis of Zeolitic imidazolate frameworks

APPLICATION FORM N°: EP24305267.7

PRIORITY COUNTRY: Spain

PRIORITY DATE: 15/02/2024

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA; Centre National de la Recherche Scientifique, MOFApps AS, Universite Claude Bernard Lyon 1

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

8. INVENTORS (in order of authorship): [D. Maspoch](#), V.F. Puntès, I. Imaz, N. Gómez, G. Boix, X. Han, O. H. Mariones, M. Llagostera, M. P. Cortés

TITLE: Antimicrobial composite material

APPLICATION FORM N°: EP21382884.1

PRIORITY COUNTRY: Spain

PRIORITY DATE: 30/09/2021

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA; Universitat Autònoma de Barcelona; Fundació Hospital Universitari Vall d'Hebron - Institut de Recerca

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

7. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, V.F. Puntès, N. Gómez, G. Boix

TITLE: Water purification method

APPLICATION FORM N°: EP19382968.6

PRIORITY COUNTRY: Spain

PRIORITY DATE: 6/11/2019

HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA; Fundació Hospital Universitari Vall d'Hebron - Institut de Recerca

OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

6. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, L.C. Garzón Tovar, S. Rodríguez

TITLE: A process for the post-synthetic modification of metal organic frameworks

APPLICATION FORM N°: EP16382601.9

PRIORITY COUNTRY: Spain PRIORITY DATE: 15/12/2016
HOLDER ENTITY: Institut Català de Nanociència i Nanotecnologia; ICREA
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

5. INVENTORS (in order of authorship): [D. Maspoch](#), M. Cano-Sarabia, M. Llagostera, M. P. Cortes, M. S. Campoy, J. Colom
TITLE: Novel compositions comprising lipidic coated bacteriophages.
APPLICATION FORM N°: EP 14382057
PRIORITY COUNTRY: Spain PRIORITY DATE: 20/02/2014
HOLDER ENTITY: Universitat Autònoma de Barcelona; Institut Català de Nanociència i Nanotecnologia; ICREA
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO:

4. INVENTORS (in order of authorship): [D. Maspoch](#), I. Imaz, D. Ruiz-Molina
TITLE: Metallo-organic system for the encapsulation and release of compounds of interest, method for obtaining and uses thereof.
APPLICATION FORM N°: WO2009133229
PRIORITY COUNTRY: Spain PRIORITY DATE: 29/04/2008
HOLDER ENTITY: Institut Català de Nanotecnologia / Consejo Superior de Investigaciones Científicas
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO: US12/990. 271

3. INVENTORS (in order of authorship): C. A. Mirkin, R. A. Vega, [D. Maspoch](#), C. K. Shen, J. Kakassery,
TITLE: Metal Ion-Based Immobilization.
APPLICATION FORM N°: WO2006US22929
PRIORITY COUNTRY: United States of America PRIORITY DATE: 13/06/2005
HOLDER ENTITY: Northwestern University
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO: WO2006138272

2. INVENTORS (in order of authorship): C. A. Mirkin, Y.-H. Wang, [D. Maspoch](#).
TITLE: Nanotube assembly.
APPLICATION FORM N°: US20060633095
PRIORITY COUNTRY: United States of America PRIORITY DATE: 04/12/2006
HOLDER ENTITY: Northwestern University
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO: WO2008048305, US2007154714, KR20080078867, EP1968752

1. INVENTORS (in order of authorship): C. A. Mirkin, R. A. Vega, [D. Maspoch](#), K. Salaita
TITLE: Nanoarrays of single virus particles, methods and instrumentation for the fabrication and use thereof.
APPLICATION FORM N°: US20060506200
PRIORITY COUNTRY: United States of America PRIORITY DATE: 31/08/2005
HOLDER ENTITY: Northwestern University
OTHER COUNTRIES WHICH THE PATENT HAS BEEN EXTENDED TO: KR20080046690, EP1931989, WO2008020851

Spin Off & Technology Transfer Contracts

5. TITLE: **AHEAD THERAPEUTICS S.L.**

DATE: December 2017

BRIEF SUMMARY: The business project, led by IGTP, ICREA and ICN2, proposes the validation of a liposome-based technology platform for the treatment of autoimmune diseases. First studies will be performed on type I Diabetes.

4. TITLE: **IRON ENCAPSULATION FOR FOOD PRODUCTS.**

DATE: October 2017

BRIEF SUMMARY: A technology transfer contract related to the microencapsulation of iron salts was signed in October 2017 by ICN2, ICREA and the company LIPOFOODS S.L. Today, this product is sold as a member of [Lipofer™](#) family. As an example, this product is today used to fabricate the commercial juice Pulp Forti Hierro.

3. TITLE: **MICROENCAPSULATED BIOCIDES FOR LONG-LASTING ACTIVITY.**

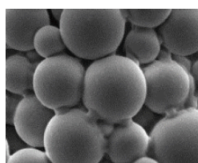
DATE: September 2013

BRIEF SUMMARY: A technology transfer contract related to the development of encapsulated biocides in microsystems and nanosystems for long-lasting biocide activity was signed in September 2013 by ICN2, ICREA and the company DESPRO S.L. According to this contract, the ICN2 and ICREA will receive from 2.5% to 4.0% of the sales of the products related with the technology.

2. TITLE: **MICRO- AND NANOENCAPSULATION OF FUNGICIDES.**

DATE: July 2012

BRIEF SUMMARY: A technology transfer contract related to micro- and/or nanoencapsulation of fungicides was signed on July 2012 by ICN2, ICREA and the company Chemipol S.L. According to this contract, the ICN2 will receive the 3.0% of the sold products. Today, a series of products called Fungipol GP are sold worldwide (see: <http://www.chemipol.com/spa/news/view/fungipol-cp-nueva-gama-de-conservantes-de-pelicula-encapsulados> & <http://www.chemipol.com/productlines/view/linea-1>).



FUNGIPOL CP : NEW RANGE OF ENCAPSULATED DRY-FILM PRESERVATIVES

FUNGIPOL® CP is a range of dry-film Preservatives Micro-Encapsulated to control the growth of fungi and algae on waterborne coatings in dry state.

As a result of a deep and intense research in nanotechnology, Chemipol features a range of innovative biocides based on encapsulated active substances.

The highlighted advantages of the FUNGIPOL® CP biocides are:

1. Low toxicity → More safety in the workplace.
2. Long lasting → Greater control in the release of actives.
3. Less polluting → Greener.

FUNGIPOL® CP range is integrated by different combinations of the following actives all them protected by encapsulation:



1. TITLE: **MICRO- AND NANOENCAPSULATION OF FRAGRANCES.**

DATE: February 2010

BRIEF SUMMARY: A first technology transfer contract related to the development of microsystems for the micro- and encapsulation of fragrances was signed by ICN2 and the company Lucta S.A. According to this contract, Lucta S.A. and the ICN2 establish a long-term research collaboration in the micro- and nanoencapsulation field. ICN2 will receive the 3,0% of the sales of products including microcapsules for the next 20 years. Today, a series of products called LuctaCaps are sold worldwide (see: <https://www.lucta.com/divisions/fragrances-microencapsulation-technology>).

TECNOLOGÍA DE MICRO-ENCAPSULACION PARA SUAVIZANTES

LuctaCaps es una avanzada tecnología de micro-encapsulación de perfumes para suavizantes de ropa.

El uso de LuctaCaps en los suavizantes proporciona una liberación gradual del perfume en el tejido, que ayuda a mejorar el rendimiento del producto, consiguiendo una percepción de la fragancia que se mantiene durante mucho tiempo después del lavado y también durante el uso, proporcionando una duradera sensación de frescor.

Esta tecnología es una mejora indiscutible sobre el perfumado tradicional de los suavizantes.

La sensación de frescor y perfumado de la ropa se ve renovada día tras día.



Competitive Research Projects (2011-2025)

38. PROJECT TITLE: Clip-off Chemistry in Organic Synthesis: a new approach for the synthesis of organic macrocycles, cages, catenanes and polymers (**CLIP-ORGANIC**).

FINANCIAL ENTITIES: **Proyecto de Generación del Conocimiento 2024 (Ministerio/AEI)**

LENGTH, FROM: 2025 TO: 2029

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Dr. Jorge Alalad

AMOUNT: 400.000,00 €

37. PROJECT TITLE: Reticular enzyme-like catalysis (**RETICAT**).

FINANCIAL ENTITIES: **Fundamentos BBVA - 2024**

LENGTH, FROM: 2025 TO: 2028

PRINCIPAL INVESTIGATOR: Prof. Miquel Costas, [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 247.687,00 € (115.494,50 €)

36. PROJECT TITLE: Role of HDL miRNA in coronary heart disease incidence; Customised miR-sHDL as strategy for atherosclerosis treatment.

FINANCIAL ENTITIES: **Fundació La Marató TV3.**

LENGTH, FROM: 2024 TO: 2026

PRINCIPAL INVESTIGATOR: Prof. Montserrat Fitó

AMOUNT: 81.250,00 €

35. PROJECT TITLE: Desarrollo y aplicación de materiales funcionales en indumentaria deportiva para la práctica del ciclismo (**FUNCYCLING**)

FINANCIAL ENTITIES: **Proyectos de Colaboración Público-Privada**

LENGTH, FROM: 2023 TO: 2026

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Coordinator: M^a Virtudes Navarro Bañón, CETEM, Spain. AMOUNT: 452.815,00 € (119.911,00 €)

34. PROJECT TITLE: Valorización del chitosano para la producción de plásticos sostenibles para la industria cosmética y para ecologizar las propiedades de los cosméticos (**CHITINMETICS**)

FINANCIAL ENTITIES: **Proyectos de Colaboración Público-Privada**

LENGTH, FROM: 2023 TO: 2025

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Coordinator: Finaderm Cosmetics S.L.

AMOUNT: 1.168.067,63 € (239.773,00 €)

33. PROJECT TITLE: Suport a Grups de Recerca (**2021 SGR 00458**)

FINANCIAL ENTITIES: **AGAUR, Generalitat de Catalunya**

LENGTH, FROM: 2022 TO: 2024

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 60.000,00 €

32. PROJECT TITLE: Porous Composites Based Arsenic Removal from Drinking Water (**ReMOVEAs**).

FINANCIAL ENTITIES: **Proyectos de Transición Ecológica y Transición Digital 2021 (Ministerio/AEI).**

LENGTH, FROM: 2022 TO: 2025

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Dr. Inhar Imaz

AMOUNT: 209.760,00 €

31. PROJECT TITLE: Synthesis of new metal-organic polyhedra/cages and clusters via rational disassembly of three-dimensional metal-organic frameworks (**DISASSEMBLE**).

FINANCIAL ENTITIES: **Proyectos de Generación de Conocimiento 2021 (Ministerio/AEI)**.
LENGTH, FROM: 2022 TO: 2025
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Dr. Arnau Carné
AMOUNT: 278.300,00 €

30. PROJECT TITLE: SAFE-ON Technology for Smart Antimicrobial Coatings (**SAFE-ON**).
FINANCIAL ENTITIES: **ERC Proof-of-Concept**.
LENGTH, FROM: 2022 TO: 2023
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 150.000,00 €

29. PROJECT TITLE: Clip-off Chemistry: Design and Synthesis of New Materials via Programmable Disassembly of Reticular Materials (**CLIPOFF-CHEM**)
FINANCIAL ENTITIES: **ERC Advanced Grant**
LENGTH, FROM: 2021 TO: 2027
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 2.505.645 €

28. PROJECT TITLE: Water Purification method
FINANCIAL ENTITIES: **ICN2-SO Technology Valorisation Programme**
LENGTH, FROM: 2020 TO: 2021
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 15.000,00 €

27. PROJECT TITLE: Detection of environmental priority pollutants recognized by photonic sensors based on porous metal-organic polyhedra (**ESENS-MOP**)
FINANCIAL ENTITIES: **ICN2-SO Seed Funding programme**
LENGTH, FROM: 2020 TO: 2021
PRINCIPAL INVESTIGATOR: Dr. Leyre Gómez
AMOUNT: 20.000,00 €

26. PROJECT TITLE: Photonic sensors for the quantitative detection of bioactive molecules recognized by homochiral metal-organic frameworks (**SensMOF**)
FINANCIAL ENTITIES: **BIST-Ignite Seeding Phase Programme**
LENGTH, FROM: 2020 TO: 2020
PRINCIPAL INVESTIGATOR: Dr. Leyre Gómez
AMOUNT: 20.000,00 € (12.000,00 €)

25. PROJECT TITLE: Más allá del biogás como energía renovable: conversión a metanol mediante nanopartículas metálicas en soportes tipo metal-organic frameworks (MOFs) (**Meta2nol**)
FINANCIAL ENTITIES: **Ramón Areces Foundation**
LENGTH, FROM: 2019 TO: 2022
PRINCIPAL INVESTIGATOR: Dr. Antoni Sánchez Ferrer, UAB, Spain
AMOUNT: 154.400,00 € (36.000.00€)

24. PROJECT TITLE: Poliedros metal-orgánicos como partículas porosas sub-5 nm para el desarrollo de nuevos adsorbentes y sistemas de liberación (**MOP³**)
FINANCIAL ENTITIES: **MICIIN, Programa Estatal de I+D+i Orientada a los Retos de la Sociedad**
LENGTH, FROM: 2019 TO: 2021
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 193.600,00 €

23. PROJECT TITLE: Hybrid bead adsorbents (**Hybead**)

FINANCIAL ENTITIES: **ERC Proof-of-Concept.**

LENGTH, FROM: 2019 TO: 2020

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 150.000,00 €

22. PROJECT TITLE: Enzyme-powered, metal-organic framework-based motors (**MOFtors**)

FINANCIAL ENTITIES: **BIST-Ignite Seeding Phase Programme.**

LENGTH, FROM: 2019 TO: 2019

PRINCIPAL INVESTIGATOR: Dr. Vincent Guillermin

AMOUNT: 20.000,00 € (10.000,00 €)

21. PROJECT TITLE: Suport a Grups de Recerca (**2017 SGR 328**)

FINANCIAL ENTITIES: **AGAUR, Generalitat de Catalunya**

LENGTH, FROM: 2017 TO: 2020

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 49.422,00 €

20. PROJECT TITLE: High performance MOF and IPOSS enhanced membrane systems as next generation CO₂ capture technologies (**GENESIS**)

FINANCIAL ENTITIES: **H2020, call NMBP-20-2017**

LENGTH, FROM: 2018 TO: 2022

PRINCIPAL INVESTIGATOR: Mr. Dirk Saseta

AMOUNT: 7.999.833,13 € (430.533,75 €)

19. PROJECT TITLE: Multifunctional MOF-based composites as advanced sorbents for biomedical and energy-related applications (**MOFCAS**)

FINANCIAL ENTITIES: **MINECO, Programa Estatal de I+D+i Orientada a los Retos de la Sociedad**

LENGTH, FROM: 2016 TO: 2018

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 170.000,00 €

18. PROJECT TITLE: Implementación de novedosos nanosensores fotónicos para la detección de ínfimas concentraciones de gases contaminantes (**NANOFOTOSENS**)

FINANCIAL ENTITIES: **Fundación Domingo Martínez**

LENGTH, FROM: 2016 TO: 2017

PRINCIPAL INVESTIGATOR: Prof. Dr. Laura Lechuga

AMOUNT: 40.000,00 €

17. PROJECT TITLE: Production, control and demonstration of structured hybrid nanoporous materials for industrial adsorption applications (**ProDIA**)

FINANCIAL ENTITIES: **H2020, call NMP-03-2015: Manufacturing and control of nanoporous materials**

LENGTH, FROM: 2015 TO: 2018

COORDINATOR: Dr. Richard Blom

AMOUNT: 7.030.831,50 € (750.722,50 €)

16. PROJECT TITLE: Multifunctional micro- and nanostructures assembled from nanoscale metal-organic frameworks and inorganic nanoparticles (**InanoMOF**)

FINANCIAL ENTITIES: **FPVII, call ERC-Co 2013**

LENGTH, FROM: 2014 TO: 2020

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 1.942.665,00 €

15. PROJECT TITLE: Suport a Grups de Recerca **(2014 SGR 80)**

FINANCIAL ENTITIES: **AGAUR, Generalitat de Catalunya**

LENGTH, FROM: 2014 TO: 2016

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 28.800,00 €

14. PROJECT TITLE: Starting Grant: Multifunctional hybrid nanoparticle pairs made from metal-organic frameworks and inorganic nanoparticles **(MOFINP)**

FINANCIAL ENTITIES: **MICINN, call Acciones Complementarias Modalidad E**

LENGTH, FROM: 2013 TO: 2014

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 75.000,00 €

13. PROJECT TITLE: Design and synthesis of Metal-Organic Frameworks (MOFs) at the nanoscale regime for advanced biomedical applications **(MOFs@bio)**

FINANCIAL ENTITIES: **MINECO, call Plan Nacional**

LENGTH, FROM: 2013 TO: 2015

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 187.200,00 €

12. PROJECT TITLE: Desarrollo de una nueva generación de productos biocidas con efecto inmediato, remanente y capacidad para reducir la transferencia de microorganismos **(DESPROCIDE)**

FINANCIAL ENTITIES: **MINECO, call INNPACTO2012**

LENGTH, FROM: 2012 TO: 2015

COORDINATOR: Fernando Campoy

AMOUNT: 916.650,22 € (159.886,22 €)

11. PROJECT TITLE: Nanoscale Metal–Organic Frameworks for biomedical applications **(NanoBioMOFs)**

FINANCIAL ENTITIES: **FP7, call IEF**

LENGTH, FROM: 2012 TO: 2014

PRINCIPAL INVESTIGATOR: Dr. Kyriakos Stylianou under the supervision of [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 168.896,40 €

10. PROJECT TITLE: Micro- and nanoencapsulated biocides: the next generation of disinfectants with short + long-²Life antimicrobial activity **(BIOCIDE²LIFE)**

FINANCIAL ENTITIES: **CERCA, call PROVA'T**

LENGTH, FROM: 2012 TO: 2014

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 164.210,78 €

9. PROJECT TITLE: Valorization and commercialization plan of a phagic cocktail based on nanoencapsulation techniques for controlling salmonella.

FINANCIAL ENTITIES: **ACC10-AGAUR, call VALOR**

LENGTH, FROM: 2011 TO: 2013

PRINCIPAL INVESTIGATOR: Prof. Dr. Montserrat Llagostera, UAB, Spain

AMOUNT: 76.367,00 € (27.425,00 €)

8. PROJECT TITLE: Food security: development of new technologies based on bacteriophages for controlling salmonella.

FINANCIAL ENTITIES: **La Caixa Foundation, call Recercaixa**

LENGTH, FROM: 2011 TO: 2013

PRINCIPAL INVESTIGATOR: Prof. Dr. Montserrat Llagostera, UAB, Spain

AMOUNT: 73.706,00 € (34.324,36€)

7. PROJECT TITLE: Estudio *in vivo* de la biodistribución y efecto inmunológico de compuestos activos encapsulados en nanoliposomas marcados con quantum dots (**InmuneLipo**)

FINANCIAL ENTITIES: Universitat Autònoma de Barcelona, call APOSTA

LENGTH, FROM: 2012 TO: 2013

PRINCIPAL INVESTIGATOR: Dr. Nerea Roher, Institut de Biotecnologia i Biomedicina (IBB-UAB), Spain

AMOUNT: 25.716,00 €

6. PROJECT TITLE: Development of protective covering by microencapsulated systems for wood repair (**AUTORREPARA**)

FINANCIAL ENTITIES: **MICINN, call INNPACTO**

LENGTH, FROM: 2011 TO: 2013

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#), Coordinator: M^a Virtudes Navarro Bañón, CETEM, Spain.

AMOUNT: 599.904,00 € (72.295,47 €)

5. PROJECT TITLE: Validation of the encapsulation of active ingredients in metal-organic micro- and nanoparticles and their use for the manufacture of long lasting disinfecting agents (**DESPRO NANO**)

FINANCIAL ENTITIES: **MICINN, call TRACE**

LENGTH, FROM: 2010 TO: 2013

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 51.394,54 €

4. PROJECT TITLE: Use of nanospheres as new immunostimulant-delivery systems for aquiculture (**NANOAQUA**)

FINANCIAL ENTITIES: **Ramón Areces Foundation**

LENGTH, FROM: 2010 TO: 2013

PRINCIPAL INVESTIGATOR: Dr. Nerea Roher, Institut de Biotecnologia i Biomedicina (IBB-UAB), Spain

AMOUNT: 117.600,00 € (12.000,00 €)

3. PROJECT TITLE: Control release of fragrances (**NANO-SCENT**)

FINANCIAL ENTITIES: **MICINN, call TRACE**

LENGTH, FROM: 2010 TO: 2012

PRINCIPAL INVESTIGATOR: Dr. Inhar Imaz (RyC Researcher at NANO^{UP})

AMOUNT: 84.004,25 €

2. PROJECT TITLE: Evaluation of fragrance encapsulation, adhesion to textile and controlled release.

FINANCIAL ENTITIES: **CIDEM-ACC10, call VALTEC, VALTEC09-0046**

LENGTH, FROM: 2009 TO: 2011

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 75.404,32 €

1. PROJECT TITLE: Evaluation of the biocompatibility and toxicity of metal-organic micro- and nanoparticles for drug administration.

FINANCIAL ENTITIES: **CIDEM-ACC10**, call **VALTEC**, **VALTEC08-2-0003**

LENGTH, FROM: 2008 TO: 2011

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 99.923,00 € (69.946,00 €)

Research Contracts with Private Companies (2011-2025)

26. COMPANY: **FROM LAB TO FIELD, SL.**

CONTRACT TITLE: **Encapsulación de una sal de lactato en diferentes matrices para su aplicación en el sector nutracéutico.**

LENGTH, FROM: 01/12/2025 TO: 31/05/2026

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 14.999 €

25. COMPANY: **AITEX**

CONTRACT TITLE: **Estudio de viabilidad síntesis de MOF a partir de residuos de poliéster.**

LENGTH, FROM: 01/04/2024 TO: 31/12/2024

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#) / [Dr. Jorge Albalad](#)

AMOUNT: 24.000 €

24. COMPANY: **FUTURECO BIOCIENCE**

CONTRACT TITLE: **Microencapsulation of microorganisms with fungicidal, nematocidal and biostimulant properties for crop treatment.**

LENGTH, FROM: 25/04/2023 TO: 25/10/2023

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 30.000 €

23. COMPANY: **NITTO DENKO**

CONTRACT TITLE: **Develop effective and environmentally friendly transport solutions of CO₂ for short and mid range distances.**

LENGTH, FROM: 2023 TO: 3 phases – 7 months

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 408.000 € (80.000 €)

22. COMPANY: **KAO S.A.**

CONTRACT TITLE: **Development of novel materials and methods for microencapsulation of consumer chemicals.**

LENGTH, FROM: 3/11/2020 TO: 2/11/2025

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 560.000 €

21. COMPANY: **FARMALAB OMEGA ZETA**

CONTRACT TITLE: **Estabilización y micro encapsulación de ingredientes naturales bio-activos.**

LENGTH, FROM: 1/01/2020 TO: 31/12/2020

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 80.000 €

20. COMPANY: **AHEAD THERAPEUTICS**

CONTRACT TITLE: **Encapsulation of peptides into liposomes.**

LENGTH, FROM: 2018 TO: 2020

PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)

AMOUNT: 66.000 €

19. COMPANY: **FUND. INST. D'INVESTIG. CIENCIES SALUT GERMANS TRIAS I PUJOL IGTP**

CONTRACT TITLE: **Marató de TV3, nº 201632-10**

LENGTH, FROM: 2017 TO: 2019
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 5.700 €

18. COMPANY: [LG](#)
CONTRACT TITLE: **Development of Nano-encapsulated liquid crystals.**
LENGTH, FROM: 04/2017 TO: 12/2018
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 100.000 €

17. COMPANY: [VITAE NATURAL NUTRITION, S.L.](#)
CONTRACT TITLE: **Encapsulation of NADH for alimentary supplements.**
LENGTH, FROM: 2016 TO: 2019
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 27.000 €

16. COMPANY: [Lipofoods S.A.](#)
CONTRACT TITLE: **Desarrollo de microcápsulas de hierro adecuadas para su incorporación en leche, bebidas (sin gas) y suplementos dietéticos en dosis adecuadas.**
LENGTH, FROM: 2015 TO: 2016
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 46.995 €

15. COMPANY: [LACER S.A.](#)
CONTRACT TITLE: **New encapsulation technologies for stabilizing ozone/chlorine dioxide gases suitable for antiseptic toothpaste.**
LENGTH, FROM: 04/2015 TO: 03/2016
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 60.000 €

14. COMPANY: [CEPSA S.A.](#)
CONTRACT TITLE: **Viability project on the use of nanomaterials for enhanced oil recovery.**
LENGTH, FROM: 02/2015 TO: 08/2015
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 45.000 €

13. COMPANY: [Lipofoods S.A.](#)
CONTRACT TITLE: **Determination of particle size by laser diffraction.**
LENGTH, FROM: 01/2014 TO: 06/2014
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 6.970 €

12. COMPANY: [Juvilis Cosmetics S.L.](#)
CONTRACT TITLE: **Preparation of hydroxyapatite nanoparticles functionalized with fluorescein.**
LENGTH, FROM: 03/12/2012 TO: 28/12/2012
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 829,50 €

11. COMPANY: [Esbelt S.A.](#)
CONTRACT TITLE: **Encapsulation of whitening agents for conveyor belts (Encapsulación de agentes blanqueantes y antiamarilleantes para cintas transportadoras).**

LENGTH, FROM: 01/2014 TO: 01/2015
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 53.000 €

10. COMPANY: [Callizo Aromas](#)
CONTRACT TITLE: **Encapsulation of essential oil with antibacterial properties for textiles (Encapsulaci3n de aceites esenciales con propiedades antibacterianas para su posterior aplicaci3n en tela t3cnica para la confecci3n de ropa deportiva).**
LENGTH, FROM: 12/2013 TO: 12/2014
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 45.000 €

9. COMPANY: [IGTP](#)
CONTRACT TITLE: **Optimitzation of test patches in terms of bioadhesiveness**
LENGTH, FROM: 07/2014 TO: 12/2014
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 7.145 €

8. COMPANY: [CEPSA S.A.](#)
CONTRACT TITLE: **Study for increased oil recovery using nanotechnology.**
LENGTH, FROM: 08/2013 TO: 09/2013
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 4.250 €

7. COMPANY: [IGTP](#)
CONTRACT TITLE: **Encapsulation of autoantigens related to DT1 in phosphatidylserine-based liposomes (Encapsulaci3n de autoant3genos relevantes en DT1 en liposomas de fosfatidilserina).**
LENGTH, FROM: 01/2013 TO: 04/2013
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 6.246 €

6. COMPANY: [Despro S.L.](#)
CONTRACT TITLE: **Encapsulation of biocides in microsystems and nanosystems to prolong its biocidal activity (Encapsulaci3n de biocidas en micro- y nanosistemas para prolonger su actividad biocida).**
LENGTH, FROM: 04/2009 TO: 05/2013
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 75.607 €

5. COMPANY: [LUCTA S.A.](#)
CONTRACT TITLE: **Microsystems fragrance encapsulation for controlled release into textile (Desarrollo de sistemas de encapsulaci3n de fragancias para detergents y suavizantes textiles).**
LENGTH, FROM: 06/2008 TO: 05/2017
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 514.406 €

4. COMPANY: [Institut de Recerca Vall d'Hebr3n – Laboratori d'Investigaci3 Neurovascular](#)
CONTRACT TITLE: **Encapsulation of drugs (statins) in nanoliposomes.**
LENGTH, FROM: 09/2011 TO: 11/2011
PRINCIPAL INVESTIGATOR: [Prof. Dr. Daniel Maspoch](#)
AMOUNT: 8.696 €

3. COMPANY: **Arquebio S.L.**

CONTRACT TITLE: **Spraying of proteins using the equipment Nano Spray-Drier.**

LENGTH, FROM: 05/2011 TO: 09/2011

PRINCIPAL INVESTIGATOR: **Prof. Dr. Daniel Maspoch**

AMOUNT: 12.000 €

2. COMPANY: **NanoInk. Inc. (USA)**

CONTRACT TITLE: **European reference centre in Dip-Pen Nanolithography.**

LENGTH, FROM: 2011 TO: 2012

PRINCIPAL INVESTIGATOR: **Prof. Dr. Daniel Maspoch**

AMOUNT: instrument NLP2000

1. COMPANY: **Chemipol S.L.**

CONTRACT TITLE: **Encapsulation of fungicides in micro- and nanosystems (Encapsulación de fungicidas en micro- y nanosistemas).**

LENGTH, FROM: 07/2009 TO: 01/2013

PRINCIPAL INVESTIGATOR: **Prof. Dr. Daniel Maspoch**

AMOUNT: 218.883 €

Participation in Congresses

275. AUTHORS: [D. Maspoch](#)

TITLE: Breaking Bonds, Building Chemistry.

TYPE OF PRESENTATION: Distinguished seminar- Invited Talk.

CONGRESS: [Imdea Energía](#)

MEETING PLACE: Madrid, Spain

DATE: 1/12/2025

274. AUTHORS: [D. Maspoch](#)

TITLE: Clip-off Chemistry: breaking bonds, building chemistry.

TYPE OF PRESENTATION: Keynote Lecture.

CONGRESS: [Symposium on Porous Organic Frameworks](#)

MEETING PLACE: Uppsala University, Sweden

DATE: 6/11/2025

273. AUTHORS: [D. Maspoch](#)

TITLE: Breaking Bonds, Building Chemistry.

TYPE OF PRESENTATION: Keynote Lecture.

CONGRESS: [EuroMOF2025](#)

MEETING PLACE: Crete, Greece

DATE: 21/09/2025-24/09/2025

272. AUTHORS: J. Albalad, R. Sánchez-Naya, J.P. Cavalieri, I. Imaz, [D. Maspoch](#)

TITLE: Clip-off Chemistry in Organic Synthesis: excision of organic macrocycles from covalent organic frameworks (COFs).

TYPE OF PRESENTATION: Oral communication (*Best Oral presentation award*).

CONGRESS: [EuroMOF2025 Young Scientist Symposium](#)

MEETING PLACE: Crete, Greece

DATE: 20/09/2025-21/09/2025

271. AUTHORS: G. Pena, J. Albalad, [D. Maspoch](#), I. Imaz

TITLE: Synthesis of organic molecules via Spray-Drying.

TYPE OF PRESENTATION: Flash Communication.

CONGRESS: [XL Reunión Bienal de la Real Sociedad Española de Química 2025](#)

MEETING PLACE: Bilbao, Spain

DATE: 30/06/2025-04/07/2025

270. AUTHORS: P. Fernández-Seriñán, P. Samanta, I. Imaz, [D. Maspoch](#)

TITLE: Clip-off chemistry as a novel approach to obtain metal-organic nanosheets.

TYPE OF PRESENTATION: Flash Communication. (*Award Best Flash communication*)

CONGRESS: [XL Reunión Bienal de la Real Sociedad Española de Química 2025](#)

MEETING PLACE: Bilbao, Spain

DATE: 30/06/2025-04/07/2025

269. AUTHORS: S. Ruiz Relano, J. Albalad, I. Imaz, [D. Maspoch](#).

TITLE: Synthesis of metal-organic cages via orthogonal bond cleavage in 3D metal-organic frameworks.

TYPE OF PRESENTATION: Flash Communication (*Award Best communication to the S15.2. The Chemistry of Emerging Porous Materials*).

CONGRESS: [XL Reunión Bienal de la Real Sociedad Española de Química 2025](#)

MEETING PLACE: Bilbao, Spain

DATE: 30/06/2025-04/07/2025

268. AUTHORS: [D. Maspoch](#)

TITLE: Breaking Bonds, Building Chemistry.

TYPE OF PRESENTATION: Keynote Lecture.

CONGRESS: [4th International School on Porous Materials](#)

MEETING PLACE: Como, Italy

DATE: 20/06/2025

267. AUTHORS: L. Meng, J. Fonseca, R. Sánchez-Naya, A. Mohammad, S. Fajal, X. Qi, L. A. Pérez, A. Mihi, I. Imaz, [D. Maspoch](#).

TITLE: MOF colloidal self-assembly into supracrystals and tunable SLR in ZIF-8-Integrated plasmonic arrays.

TYPE OF PRESENTATION: Poster.

CONGRESS: [ICN2 2025 Global Summit N4NS](#)

MEETING PLACE: Barcelona, Spain

DATE: 16/06/2025-18/06/2025

266. AUTHORS: I. Imaz, J. Fonseca, L. Meng, [D. Maspoch](#).

TITLE: Self-assembly of colloidal covalent organic framework particles into ordered superstructures.

TYPE OF PRESENTATION: Poster.

CONGRESS: [ICN2 2025 Global Summit N4NS](#)

MEETING PLACE: Barcelona, Spain

DATE: 16/06/2025-18/06/2025

265. AUTHORS: [D. Maspoch](#).

TITLE: Breaking Bonds, Building Chemistry.

TYPE OF PRESENTATION: Keynote Lecture.

CONGRESS: [25th Anniversary ICMOL](#)

MEETING PLACE: Valencia, Spain

DATE: 03/06/2025-04/06/2025

264. AUTHORS: A. Cortés-Martínez, A. Carné-Sánchez, D. Maspoch

TITLE: Isorecticular synthesis of metal-organic polyhedra

TYPE OF PRESENTATION: Oral communication

CONGRESS: [3rd Kyoto Advanced Porous Science \(KAPS\) Symposium](#)

MEETING PLACE: Kyoto, Japan

DATE: 02/06/2025-03/06/2025

263. AUTHORS: A. Cortés-Martínez, A. Carné-Sánchez, D. Maspoch

TITLE: Isorecticular synthesis of metal-organic polyhedra

TYPE OF PRESENTATION: Poster

CONGRESS: [19th International Symposium on Macrocyclic and Supramolecular Chemistry in conjunction with 9th NanoLSI Symposium](#)

MEETING PLACE: Kyoto, Japan

DATE: 25/05/2025-30/05/2025

262. AUTHORS: J. P. Cavalieri, R. Sánchez-Naya, J. Albalad, J. Khosravi, S. Fiori, E. Ribas, A. Mugarza, L. Yeo, I. Imaz, D. Maspoch

TITLE: Scalable synthesis of organic molecules via Clip-off Chemistry from covalent organic frameworks

TYPE OF PRESENTATION: Oral communication & Poster (*Best Presentation & Poster Award*)

CONGRESS: [XIV Doctoral Workshop of the PhD in Chemistry UAB](#)

MEETING PLACE: UAB Bellaterra, Spain
DATE: 22/05/2025-23/05/2025

261. AUTHORS: X. Zhang, A. Cortés-Martínez, A. Carné-Sánchez, D. Maspoch
TITLE: Inside-out functionalization of Rh(II)-based MOPs
TYPE OF PRESENTATION: Oral communication & Poster
CONGRESS: [XIV Doctoral Workshop of the PhD in Chemistry UAB](#)
MEETING PLACE: UAB Bellaterra, Spain
DATE: 22/05/2025-23/05/2025

260. AUTHORS: P. Fernández-Seriñán, P. Samanta, I. Imaz, D. Maspoch
TITLE: Synthesis of metal-organic nanosheets via Clip-Off Chemistry
TYPE OF PRESENTATION: Oral communication & Poster
CONGRESS: [XIV Doctoral Workshop of the PhD in Chemistry UAB](#)
MEETING PLACE: UAB Bellaterra, Spain
DATE: 22/05/2025-23/05/2025

259. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [Humboldt University's Science Campus Adlershof](#)
MEETING PLACE: Center for the Science of Materials Berlin, Germany.
DATE: 11/04/2025

258. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [Hermanos-Elhuyar-Hans-Goldschmidt-Vorlesung Lecture 2025](#)
MEETING PLACE: Technische Universität Dresden, Germany.
DATE: 10/04/2025

257. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [University of Düsseldorf](#)
MEETING PLACE: University of Düsseldorf, Germany.
DATE: 09/04/2025

256. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [University of Granada](#)
MEETING PLACE: Granada, Spain
DATE: 7/03/2025

255. AUTHORS: S. Ruiz-Relaño, D. Nam, J. Albalad, A. Cortés-Martínez, J. Juanhuix, I. Imaz, D. Maspoch
TITLE: Synthesis of Metal-Organic Cages via Orthogonal Bond Cleavage in 3D Metal-Organic Frameworks
TYPE OF PRESENTATION: Oral communication (flash). (*Best Oral Flash Communication*)
CONGRESS: [2nd Meeting of Inorganic and Organometallic Chemistry of the Catalan Chemical Society \(2RQIO-SCQ\)](#)
MEETING PLACE: Tarragona, Spain
DATE: 05/02/2025-07/02/2025

254. AUTHORS: P. Fernández Serriñán, P. Samanta, I. Imaz, D. Maspoch.
TITLE: Clip-Off Chemistry as a novel approach to obtain 2D Metal-Organic Nanosheets
TYPE OF PRESENTATION: Oral Communication. (*Best Oral Communication*)
CONGRESS: [2nd Meeting of Inorganic and Organometallic Chemistry of the Catalan Chemical Society \(2RQIO-SCQ\)](#)
MEETING PLACE: Tarragona, Spain
DATE: 05/02/2025-07/02/2025

253. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Plenary Speaker
CONGRESS: [CIQUS](#)
MEETING PLACE: Santiago de Compostela, Spain
DATE: 4/02/2025

252. AUTHORS: [D. Maspoch](#).
TITLE: From Innovation to Impact: Sorption and Delivery Systems for Society.
TYPE OF PRESENTATION: Plenary Speaker
CONGRESS: [Science for Industry \(S4I\)](#)
MEETING PLACE: Madrid, Spain
DATE: 29/01/2025

251. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: a "solid-to-molecule" approach for the synthesis of new molecules via bond cleavage
TYPE OF PRESENTATION: Keynote Lecture
CONGRESS: [Functional Molecular Materials Symposium](#)
MEETING PLACE: Barcelona, Spain.
DATE: 17/12/2024

250. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage
TYPE OF PRESENTATION: Keynote Lecture
CONGRESS: [Highlighting Organic Chemistry in Catalonia \(EuChemS, division of Organic Chemistry\)](#)
MEETING PLACE: online.
DATE: 8/11/2024

249. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage
TYPE OF PRESENTATION: Keynote Lecture
CONGRESS: [nanoBalkan International Conference \(NB2024\)](#)
MEETING PLACE: Tirana, Albania.
DATE: 28/10/2024-01/10/2024

248. AUTHORS: J. Albalad, I. Imaz, D. Maspoch.
TITLE: Clip-off Chemistry: Synthesis of new molecules/materials through programmed disassembly of reticular precursors
TYPE OF PRESENTATION: Oral Communication
CONGRESS: [YoungMOFMeeting2024](#)
MEETING PLACE: Cambridge, UK.
DATE: 24/09/2024-26/09/2024

247. AUTHORS: [D. Maspoch](#).
 TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage
 TYPE OF PRESENTATION: Keynote Lecture
 CONGRESS: [17th International Seminar on Inclusion Compounds and Porous Materials](#)
 MEETING PLACE: Poznan, Poland.
 DATE: 02/09/2024-06/09/2024
246. AUTHORS: D. Nam, J. Albalad, R. Sanchez, S. Ruiz, Y. Yang, I. Imaz, D. Maspoch
 TITLE: Clip-off Chemistry: Unveiling metal cluster building blocks from MOFs
 TYPE OF PRESENTATION: Poster
 CONGRESS: [9th International Conference on Metal-Organic Frameworks and Open Framework Compounds](#)
 MEETING PLACE: Singapore.
 DATE: 15/07/2024-19/07/2024
245. AUTHORS: [D. Maspoch](#).
 TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage
 TYPE OF PRESENTATION: Opening Lecture (Plenary Speaker)
 CONGRESS: [9th International Conference on Metal-Organic Frameworks and Open Framework Compounds](#)
 MEETING PLACE: Singapore.
 DATE: 15/07/2024-19/07/2024
244. AUTHORS: S. Ruiz, A. Broto-Ribas, J. Albalad, I. Imaz, D. Maspoch.
 TITLE: Clip-off Chemistry: Synthesis of unprecedented reticular and molecular materials
 TYPE OF PRESENTATION: Oral Communication
 CONGRESS: [POLYMAT Spotlight 2024](#)
 MEETING PLACE: San Sebastián, Spain.
 DATE: 11/06/2024-14/06/2024
243. AUTHORS: [D. Maspoch](#).
 TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage
 TYPE OF PRESENTATION: Plenary Speaker
 CONGRESS: [Girona Seminar 2024 - Supramolecular Chemistry](#)
 MEETING PLACE: Girona, Spain.
 DATE: 28/05/2024-31/05/2024
242. AUTHORS: L. Hernández López
 TITLE: Metal-Organic Polyhedra as Porous Molecular Nanoparticles
 TYPE OF PRESENTATION: Oral Presentation – *First Prize. Best Oral contribution*
 CONGRESS: [Young Researcher Symposium. 14th Girona Seminar](#)
 MEETING PLACE: Girona, Spain.
 DATE: 28/05/2024-31/05/2024
241. AUTHORS: L. Meng, J. Fonseca, R. Sánchez-Naya, A. Mohammad, I. Imaz, D. Maspoch
 TITLE: Co-assembly of polyhedral metal-organic framework particles into binary ordered superstructures.
 TYPE OF PRESENTATION: Poster.
 CONGRESS: [Jornades Doctorals del Programa de Doctorat en Química UAB](#)
 MEETING PLACE: Bellaterra, Spain.
 DATE: 28/05/2024-31/05/2024
240. AUTHORS: [D. Maspoch](#).
 TITLE: Rotura de enlaces para sintetizar moléculas y materiales

TYPE OF PRESENTATION: Nomination -Lecture
CONGRESS: [Real Academia de las Ciencias, RAC](#)
MEETING PLACE: Madrid, Spain.
DATE: 10/04/2024

239. AUTHORS: [D. Maspoch](#).
TITLE: MOF-based composites: from water purification to antimicrobial coatings
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [XIX Escuela Nacional de Materiales Moleculares \(ENMM\) 2024](#)
MEETING PLACE: Almuñecar, Spain.
DATE: 10/03/2024-14/03/2024

238. AUTHORS: [D. Maspoch](#).
TITLE: MOF-Polymer Materials: from Pollutant Removal to Antimicrobial Coatings.
TYPE OF PRESENTATION: Keynote Lecture
CONGRESS: [POPs and WISE 2024](#)
MEETING PLACE: KAUST, Saudi Arabia.
DATE: 11/02/2024-15/02/2024

237. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited Lecture
CONGRESS: [Universitat Jaume I](#)
MEETING PLACE: Castelló de la Plana, Spain.
DATE: 19/01/2024

236. AUTHORS: [D. Maspoch](#).
TITLE: Self-assembly of reticular materials into ordered superstructures and photonic crystals.
TYPE OF PRESENTATION: Keynote Lecture
CONGRESS: [V IAdChem 1-Day Workshop "COFFeteros Day"](#)
MEETING PLACE: Universidad Autonoma de Madrid, Spain.
DATE: 16/01/2024

235. AUTHORS: L. Hernández López
TITLE: Coordinative molecular recognition on metal-organic polyhedra for separation, removal and sensing applications.
TYPE OF PRESENTATION: Oral Presentation
CONGRESS: [Macrocyclic and Supramolecular Chemistry Meeting \(MASC 2023\)](#)
MEETING PLACE: University of Birmingham, UK.
DATE: 17/12/2023-19/12/2023

234. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited talk.
CONGRESS: [Macrocyclic and Supramolecular Chemistry Meeting \(MASC 2023\)](#)
MEETING PLACE: University of Birmingham, UK.
DATE: 18/12/2023-19/12/2023

233. AUTHORS: [D. Maspoch](#).
TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.
TYPE OF PRESENTATION: Invited talk.
CONGRESS: [ICMOL - Universidad de Valencia](#)
MEETING PLACE: Valencia, Spain
DATE: 27/11/2023

232. AUTHORS: S. Ruiz-Relaño, A. Broto-Ribas, J. Albalad, Y. Yang, F. Gándara, J. Juanhuix, I. Imaz, [D. Maspoch](#).

TITLE: Clip-off Chemistry: A synthetic tool to obtain unprecedented reticular and molecular materials.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [XIX Simposio de Jóvenes Investigadores Químicos Murcia 2023](#)

MEETING PLACE: Murcia, Spain

DATE: 13/11/2023-16/11/2023

231. AUTHORS: P. Fernández-Seriñán, Y. Yang, I. Imaz, F. Gándara, M. Handke, B. Ortín-Rubio, J. Juanhuix, [D. Maspoch](#).

TITLE: Isorecticular contraction of metal–organic frameworks induced by cleavage of covalent bonds.

TYPE OF PRESENTATION: Oral Presentation (Best Oral Communication).

CONGRESS: [XIX Simposio de Jóvenes Investigadores Químicos Murcia 2023](#)

MEETING PLACE: Murcia, Spain

DATE: 13/11/2023-16/11/2023

230. AUTHORS: A. Cortés-Martínez, C. von Baeckmann, L. Hernández-López, A. Carné-Sánchez, [D. Maspoch](#).

TITLE: Synthesis of oligomeric porous materials.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [XIX Simposio de Jóvenes Investigadores Químicos Murcia 2023](#)

MEETING PLACE: Murcia, Spain

DATE: 13/11/2023-16/11/2023

229. AUTHORS: [D. Maspoch](#).

TITLE: Clip-off Chemistry: Synthesis by Bond Cleavage.

TYPE OF PRESENTATION: Invited talk.

CONGRESS: [Institut Català d'Investigació Química \(ICIQ\)](#)

MEETING PLACE: Tarragona, Spain

DATE: 3/11/2023

228. AUTHORS: L. Hernández López

TITLE: Click Chemistry on metal-organic polyhedra.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

227. AUTHORS: Y. Yang, P. Fernández-Seriñán, I. Imaz, F. Gándara, M. Handke, B. Ortín-Rubio, J. Juanhuix, [D. Maspoch](#).

Title: Isorecticular contraction of metal–organic frameworks induced by cleavage of covalent bonds.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

226. AUTHORS: A. Khobotov-Bakishev, P. Samanta, K. Roztocki, J. Albalad, S. Royuela, S. Furukawa, F. Zamora, A. Carné-Sánchez, [D. Maspoch](#).

Title: Covalent Polymerization of porous molecular cages: synthesis, functionalization, and applications.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

225. AUTHORS: C. von Baeckmann, S. Ruiz-Relaño, I. Imaz, M. Handke, J. Juanhuix, F. Gándara, A. Carné-Sánchez, [D. Maspoch](#).

Title: Stepwise assembly of heterometallic, heteroleptic "Triblock Janus-type" metal organic cages.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

224. AUTHORS: J. Fonseca, L. Meng, Inhar Imaz, [D. Maspoch](#).

Title: Self-assembly of colloidal covalent organic framework particles into ordered superstructures.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

223. AUTHORS: X. Zhang, A. Cortés-Martínez, A. Carné-Sánchez, [D. Maspoch](#).

Title: Synthesis of endohedrally-functionalized metal-organic polyhedra.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

222. AUTHORS: M. Cano-Sarabia, L. Meng, F. Aydin, M. Gil-Bonillo, I. Imaz, [D. Maspoch](#).

Title: Lipid-MOF composites as potential drug delivery systems.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

221. AUTHORS: D. Nam, Y. Yang, I. Imaz, [D. Maspoch](#).

Title: From MOFs to clusters via Clip-off Chemistry.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

220. AUTHORS: S. Ruiz-Relaño, A. Broto-Ribas, J. Albalad, Y. Yang, F. Gándara, J. Juanhuix, I. Imaz, [D. Maspoch](#).

Title: Retrosynthetic analysis applied to Clip-off Chemistry: synthesis of four Rh (II)-based complexes as Proof-of-Concept.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

219. AUTHORS: P. Samantha, Y. Yang, I. Imaz, [D. Maspoch](#).

Title: Synthesis of 1D metal-organic nanostructures from a 3D MOF via Clip-off Chemistry.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

218. AUTHORS: J. Albalad, I. Imaz, [D. Maspoch](#).

Title: Clip-off chemistry: synthesis by programmed disassembly of reticular materials.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

217. AUTHORS: P. Hernández-Seriñán, K. Roztocki, V. Safarifard, V. Guillerm, A. Morsali, I. Imaz, [D. Maspoch](#).

Title: Modulation of the dynamics of metal-organic frameworks by hydrogen bonding.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

216. AUTHORS: J.P. Cavalieri, R. Sánchez Naya, J. Albalad, L. Yeo, I. Imaz, [D. Maspoch](#).

Title: Stability of covalent-organic frameworks towards ozone.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

215. AUTHORS: R. Sánchez Naya, J.P. Cavalieri, J. Albalad, I. Imaz, [D. Maspoch](#).

Title: Ozone-mediated selective bond cleavage in covalent organic frameworks.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

214. AUTHORS: L. Meng, J. Fonseca, I. Imaz, [D. Maspoch](#).

Title: Co-assembly of polyhedral ZIF-8 particles into binary superstructures.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain
DATE: 24/09/2023-27/06/2023

213. AUTHORS: A. Cortés-Martínez, C. von Baeckmann, L. Hernández-López, A. Carné-Sánchez, [D. Maspoch](#).

Title: Synthesis of oligomeric porous materials.

TYPE OF PRESENTATION: Poster.

CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#)

MEETING PLACE: Granada, Spain

DATE: 24/09/2023-27/06/2023

212. AUTHORS: C. von Baeckmann, S. Ruiz-Relaño, I. Imaz, M. Handke, J. Juanhuix, F. Gándara, A. Carné-Sánchez, [D. Maspoch](#).

Title: Stepwise assembly of heterometallic, heteroleptic “Triblock Janus-type” metal-organic cages

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [ACS FALL 2023. Harnessing the Power of Data](#)

MEETING PLACE: San Francisco, CA & Hybrid

DATE: 13/08/2023-17/08/2023

211. AUTHORS: Y. Yang, P. Hernández-Seriñán, I. Imaz, F. Gándara, M. Handke, B. Ortín-Rubio, J. Juanhuix, [D. Maspoch](#).

Title: Isorecticular contraction of metal-organic frameworks induced by cleavage of covalent bonds.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [XXXIX Biennial Meeting of the Spanish Chemical Society \(BQZ2023\)](#)

MEETING PLACE: Zaragoza, Spain

DATE: 25/06/2023-29/06/2023

210. AUTHORS: L. Hernández-López

Title: Click Chemistry on Metal-Organic Polyhedra

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [XXXIX Biennial Meeting of the Spanish Chemical Society \(BQZ2023\)](#)

MEETING PLACE: Zaragoza, Spain

DATE: 25/06/2023-29/06/2023

209. AUTHORS: A. Carné-Sánchez

Title: Stepwise Assembly of Multicomponent, Crystalline Metal-Organic Frameworks and Cages

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [XXXIX Biennial Meeting of the Spanish Chemical Society \(BQZ2023\)](#)

MEETING PLACE: Zaragoza, Spain

DATE: 25/06/2023-29/06/2023

208. AUTHORS: J. Albalad, Y. Yang

TITLE: Decoding the structural rearrangement in mixed-linker metal-organic frameworks by Clip-off Chemistry.

TYPE OF PRESENTATION: Flash Oral Presentation.

CONGRESS: [XXXIX Biennial Meeting of the Spanish Chemical Society \(BQZ2023\)](#)

MEETING PLACE: Zaragoza, Spain

DATE: 25/06/2023-29/06/2023

207. AUTHORS: J. Albalad, S. Ruiz-Relaño, A. Broto-Ribas, I. Imaz, [D. Maspoch](#).

TITLE: Clip-off Chemistry as a synthetic tool towards unprecedented reticular and molecular materials.

TYPE OF PRESENTATION: Flash Oral Presentation (Best Flash Oral in S5).

CONGRESS: [XXXIX Biennial Meeting of the Spanish Chemical Society \(BQZ2023\)](#)

MEETING PLACE: Zaragoza, Spain

DATE: 25/06/2023-29/06/2023

206. AUTHORS: [D. Maspoch](#)

TITLE: Clip-off Chemistry: Synthesis by Bond Breaking in Reticular Materials

TYPE OF PRESENTATION: Invited talk

CONGRESS: [3rd International School on Porous Materials: MOFschool2023](#)

MEETING PLACE: Como, Italy

DATE: 19/06/2023-23/06/2023

205. AUTHORS: C. von Baeckmann.

TITLE: Stepwise Assembly of Heterometallic, Heteroleptic “Triblock Janus-type” Metal-Organic Cages.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [34a Conferència alemanya de zeolites.](#)

MEETING PLACE: Viena, Austria

DATE: 21/02/2023-23/02/2023

204. AUTHORS: S. Ruiz-Relaño, A. Broto-Ribas, J. Albalad, I. Imaz, [D. Maspoch](#).

TITLE: Síntesi de noves estructures metal·loorgàniques mitjançant la Química de “Clip-Off”.

TYPE OF PRESENTATION: Oral Presentation.

CONGRESS: [1a Reunió de Química Inorgànica i Organometàl·lica de la Societat Catalana de Química \(1RQIO-SCQ\)](#)

MEETING PLACE: Barcelona, Spain

DATE: 02/02/2023-03/02/2023

203. AUTHORS: L. Hernández-López, T. Parella, J. Farauto, A. Carné-Sánchez, [D. Maspoch](#)

TITLE: Switchable MOP solubility through surface chemistry: engineering molecular self-sorting systems.

TYPE OF PRESENTATION: Poster

CONGRESS: [1a Reunió de Química Inorgànica i Organometàl·lica de la Societat Catalana de Química \(1RQIO-SCQ\)](#)

MEETING PLACE: Barcelona, Spain

DATE: 02/02/2023-03/02/2023

202. AUTHORS: A. Cortés-Martínez, A. Carné-Sánchez, [D. Maspoch](#)

TITLE: Síntesi de materials oligomèrics porosos.

TYPE OF PRESENTATION: Oral Presentation

CONGRESS: [1a Reunió de Química Inorgànica i Organometàl·lica de la Societat Catalana de Química \(1RQIO-SCQ\)](#)

MEETING PLACE: Barcelona, Spain

DATE: 02/02/2023-03/02/2023

201. AUTHORS: A. Carné-Sánchez

TITLE: Reactivitat i assemblatge de poliedres metal·orgànics.

TYPE OF PRESENTATION: Oral Presentation (one of the three Best Oral communication Award)

CONGRESS: [1a Reunió de Química Inorgànica i Organometàl·lica de la Societat Catalana de Química \(1RQIO-SCQ\)](#)

MEETING PLACE: Barcelona, Spain

DATE: 02/02/2023-03/02/2023

200. AUTHORS: A. Khobotov-Bakishhev, K. Roztocki, A. Carné-Sánchez, [D. Maspoch](#)
TITLE: Covalent polymerization of porous molecular cages: synthesis, functionalization and applications.

TYPE OF PRESENTATION: Poster (one of the three Best Poster Award)

CONGRESS: [1a Reunió de Química Inorgànica i Organometàl·lica de la Societat Catalana de Química \(1RQIO-SCQ\)](#)

MEETING PLACE: Barcelona, Spain

DATE: 02/02/2023-03/02/2023

199. AUTHORS: L. Hernández-López, A. Cortés-Martínez, J. Martínez-Esaín, T. Grancha, T. Parella, J. Farauto, A. Carné-Sánchez, [D. Maspoch](#)

TITLE: Switchable MOP solubility through surface chemistry: engineering molecular self-sorting systems

TYPE OF PRESENTATION: Poster

CONGRESS: [8th International Conference on Metal-Organic Frameworks and Open Frameworks Compounds \(MOF2022\)](#)

MEETING PLACE: Dresden, Germany

DATE: 04/09/2022-07/09/2022

198. AUTHORS: I. Imaz, Y. Yunhui, A. Broto, B. Ortín, [D. Maspoch](#)

TITLE: Clip-off Chemistry: Synthesis by disassembly of reticular materials

TYPE OF PRESENTATION: Oral Presentation

CONGRESS: [8th International Conference on Metal-Organic Frameworks and Open Frameworks Compounds \(MOF2022\)](#)

MEETING PLACE: Dresden, Germany

DATE: 04/09/2022-07/09/2022

197. AUTHORS: A. Carné-Sánchez

TITLE: Surface functionalization and assembly of Rh(II)-based metal-organic polyhedra (MOPs)

TYPE OF PRESENTATION: Oral Presentation

CONGRESS: [8th International Conference on Metal-Organic Frameworks and Open Frameworks Compounds \(MOF2022\)](#)

MEETING PLACE: Dresden, Germany

DATE: 06/09/2022

196. AUTHORS: Y. Yang, I. Imaz, [D. Maspoch](#)

TITLE: Mesopores generation and programmed disassembly of metal-organic frameworks by Clip-off Chemistry.

TYPE OF PRESENTATION: Poster

CONGRESS: [8th International Conference on Metal-Organic Frameworks and Open Frameworks Compounds \(MOF2022\)](#)

MEETING PLACE: Dresden, Germany

DATE: 05/09/2022

195. AUTHORS: L. Hernández López

TITLE: Switchable MOP solubility through surface chemistry: engineering molecular self-sorting systems

TYPE OF PRESENTATION: Oral Presentation

CONGRESS: [Young Investigator Symposium-MOF2022](#)

MEETING PLACE: Dresden, Germany

DATE: 02/09/2022-04/09/2022

194. AUTHORS: Y. Yang, I. Imaz, [D. Maspoch](#)
 TITLE: Mesopores generation and programmed disassembly of metal-organic frameworks by Clip-off Chemistry.
 TYPE OF PRESENTATION: Oral Presentation
 CONGRESS: [Young Investigator Symposium-MOF2022](#)
 MEETING PLACE: Dresden, Germany
 DATE: 03/09/2022
193. AUTHORS: A. Broto-Ribas, I. Imaz, F. Gándara, [D. Maspoch](#)
 TITLE: Clip-off synthesis of Rh-complexes via the cleavage of Rh-metal-organic-polyhedra.
 TYPE OF PRESENTATION: Oral Presentation
 CONGRESS: [44th ICCS International Conference on Coordination Chemistry](#)
 MEETING PLACE: Rimini, Italy
 DATE: 28/08/2022-02/09/2022
192. AUTHORS: [D. Maspoch](#)
 TITLE: Clip-Off Chemistry: Synthesis by bond breaking in reticular materials.
 TYPE OF PRESENTATION: Invited Talk
 CONGRESS: [XXXVIII Reunión Bienal de la Real Sociedad Española de Química](#)
 MEETING PLACE: Granada, Spain
 DATE: 27/06/2022-30/06/2022
191. AUTHORS: A. Khobotov-Bakishev; C. Von Baeckmann; B. Ortín-Rubio; L. Hernandez-Lopez; A. Cortés-Martínez; J. Martínez-Esain; F. Gándara; J. Juanhuix; A. Platero-Prats; J. Faraudo; A. Carné-Sánchez; [D. Maspoch](#)
 TITLE: Multicomponent, functionalized HKUST-1 analogues assembled via reticulation of prefabricated metal-organic polyhedral cavities
 TYPE OF PRESENTATION: Poster
 CONGRESS: [XXXVIII Reunión Bienal de la Real Sociedad Española de Química](#)
 MEETING PLACE: Granada, Spain
 DATE: 27/06/2022-30/06/2022
190. AUTHORS: B. Ortín-Rubio, Y. Yang, I. Imaz, F. Gandara, J. Judith, [D. Maspoch](#)
 TITLE: Synthesis by Programmed Disassembly of Metal-Organic Frameworks
 TYPE OF PRESENTATION: Oral Flash Presentation
 CONGRESS: [XXXVIII Reunión Bienal de la Real Sociedad Española de Química](#)
 MEETING PLACE: Granada, Spain
 DATE: 27/06/2022-30/06/2022
189. AUTHORS: A. Broto-Ribas, I. Imaz, F. Gandara, [D. Maspoch](#)
 TITLE: Clip-off synthesis of Rh-complexes via the cleavage of Rh-Metal-Organic Polyhedra (Rh-MOPs)
 TYPE OF PRESENTATION: Oral Presentation
 CONGRESS: [XXXVIII Reunión Bienal de la Real Sociedad Española de Química](#)
 MEETING PLACE: Granada, Spain
 DATE: 27/06/2022-30/06/2022
188. AUTHORS: A. Carné Sánchez
 TITLE: Surface functionalization and assembly of Rh(II)-based Metal-Organic Polyhedra (MOPs).
 TYPE OF PRESENTATION: Oral presentation
 CONGRESS: [5th Annual UKPorMat Conference](#)
 MEETING PLACE: Glasgow (Scotland)
 DATE: 13/06/22

187. AUTHORS: [D. Maspoch](#)

TITLE: Clip-off Chemistry: Synthesis by bond breaking in reticular materials.

TYPE OF PRESENTATION: Invited Lecture

CONGRESS: [Universidad Autónoma de Madrid](#)

MEETING PLACE: Universidad Autónoma de Madrid (Spain)

DATE: 19/05/22

186. AUTHORS: L. Hernández López

TITLE: Poliedros metalorgánicos, ¿nanopartículas moleculares?

TYPE OF PRESENTATION: Oral presentation

CONGRESS: [Tercera Edición del Congreso sobre Materiales Multifuncionales "MULTIMAT"](#)

MEETING PLACE: Almuñecar, Spain

DATE: 16/05/22 - 17/05/22

185. AUTHORS: [D. Maspoch](#)

TITLE: Metal-Organic Frameworks: Spray-Drying & Colloidal Self-Assembly.

TYPE OF PRESENTATION: Invited Lecture

CONGRESS: [Friedrich-Alexander University Erlangen-Nürnberg \(FAU\)](#)

MEETING PLACE: Friedrich-Alexander University Erlangen-Nürnberg (FAU) (Germany)

DATE: 27/04/22

184. AUTHORS: [D. Maspoch](#)

TITLE: Clip-off Chemistry: Synthesis by bond breaking in reticular materials.

TYPE OF PRESENTATION: Keynote Lecture

CONGRESS: [CiQUS 10 years | 1st Symposium "Chemistry at the Frontier"](#)

MEETING PLACE: Santiago de Compostela (Spain)

DATE: 30/03/22-01/04/22

183. AUTHORS: [D. Maspoch](#)

TITLE: Clip-off Chemistry: a new approach for the synthesis of molecules and materials via bond breaking in reticular materials.

TYPE OF PRESENTATION: Invited Lecture

CONGRESS: [XVIII Escuela Nacional de Materiales Moleculares](#)

MEETING PLACE: Santiago de Compostela (Spain)

DATE: 22-24/03/22

182. AUTHORS: A. Broto

TITLE: "Clip-off Chemistry": Nou mètode sintètic de complexos de rodi a partir de la ruptura controlada de poliedres metal·lorgànics (MOPs).

TYPE OF PRESENTATION: Oral communication

CONGRESS: [12a Trobada de Joves Investigadors dels Països Catalans](#)

MEETING PLACE: Universitat de Girona, UdG (Spain)

DATE: 24/01/22-26/01/22

181. AUTHORS: A. Cortés Martínez

TITLE: Coordinació-eliminació de contaminants orgànics de l'aigua amb MOPs solubles en aigua.

TYPE OF PRESENTATION: Oral communication

CONGRESS: [12a Trobada de Joves Investigadors dels Països Catalans](#)

MEETING PLACE: Universitat de Girona, UdG (Spain)

DATE: 24/01/22-26/01/22

180. AUTHORS: L. Hernández López

TITLE: Poliedres metal·lorgànics com a "nanopartícules moleculares"

TYPE OF PRESENTATION: Oral communication
CONGRESS: [12a Trobada de Joves Investigadors dels Països Catalans](#)
MEETING PLACE: Universitat de Girona, UdG (Spain)
DATE: 24/01/22-26/01/22

179. AUTHORS: B. Ortín Rubio
TITLE: Síntesi de xarxes metal·loorgàniques (MOFs) per desassemblatge programat
TYPE OF PRESENTATION: Oral communication
CONGRESS: [12a Trobada de Joves Investigadors dels Països Catalans](#)
MEETING PLACE: Universitat de Girona, UdG (Spain)
DATE: 24/01/22-26/01/22

178. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale reticular materials: from metal-organic frameworks to metal-organic polyhedra
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Institute of Nanoscience and Nanotechnology of the University of Barcelona \(IN2UB\)](#)
MEETING PLACE: online
DATE: 26/11/21

177. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale reticular materials: from metal-organic frameworks to metal-organic polyhedra
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Alcances sobre las diversas aplicaciones de los nanomateriales - Universidad de Lima \(Peru\)](#)
MEETING PLACE: online
DATE: 19/11/21

176. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale reticular materials: from metal-organic frameworks to metal-organic polyhedra
TYPE OF PRESENTATION: Plenary Lecture
CONGRESS: [International Workshop on Total Scattering for Nanotechnology in Al'Andalus \(ToScal'And\)](#)
MEETING PLACE: Granada (Spain)
DATE: 23/09/21

175. AUTHORS: [D. Maspoch](#)
TITLE: Clip-off Chemistry: Synthesis by Disassembly of Reticular Materials
TYPE OF PRESENTATION: Keynote lecture
CONGRESS: [4th European Conference on Metal-Organic Frameworks and Porous Polymers \(EUROMOF21\)](#)
MEETING PLACE: online
DATE: 13/09/21-15/09/21

174. AUTHORS: B. Ortín-Rubio, H. Ghasempour, V. Guillerme, A. Morsali, J. Juanhuix, I. Imaz, [D. Maspoch](#)
TITLE: Net-clipping: an approach to deduce the topology of Metal-Organic Frameworks built with zigzag ligands
TYPE OF PRESENTATION: Poster
CONGRESS: [EUROMOF21](#)
MEETING PLACE: online
DATE: 13/09/21-15/09/21

173. AUTHORS: Y. Liu, I. Imaz, [D. Maspoch](#)
TITLE: Self-assembly of polyhedral metal-organic framework particles into crystalline colloidal clusters and assemblies
TYPE OF PRESENTATION: Oral contribution
CONGRESS: [EUROMOF21](#)
MEETING PLACE: online
DATE: 13/09/21-15/09/21

172. AUTHORS: Y. Liu
TITLE: Self-assembly of Metal–Organic Framework particles into 0-D and 3-D architectures
TYPE OF PRESENTATION: Oral contribution
CONGRESS: [Young Investigator Symposium \(YIS\) - EUROMOF2021](#)
MEETING PLACE: online
DATE: 10/09/21-15/09/21

171. AUTHORS: Y. Liu, C. Avci, J. A. Pariente, A. Blanco, C. Lopez, I. Imaz, [D. Maspoch](#)
TITLE: Template-free, surfactant mediated orientation of self assembled supercrystals of MOF particles
TYPE OF PRESENTATION: Poster (Best Poster Award)
CONGRESS: [EUROMOF2021](#)
MEETING PLACE: online
DATE: 10/09/21-15/09/21

170. AUTHORS: A. Broto-Ribas, A. Carné-Sánchez, F. Gándara, I. Imaz, [D. Maspoch](#)
TITLE: New anisotropic porous rhodium Metal-Organic Polyhedra
TYPE OF PRESENTATION: Poster
CONGRESS: [EUROMOF2021](#)
MEETING PLACE: online
DATE: 12/09/21-14/09/21

169. AUTHORS: Leyre Gomez
TITLE: Integration of MOFs as specific receptors in optical nanosensors for environmental monitoring
TYPE OF PRESENTATION: Oral communication (Roundtable: MOFs, a Powerful Framework for Pollution Remediation)
CONGRESS: [BIST Conference 2020](#)
MEETING PLACE: Barcelona (Online)
DATE: 29/10/2020

168. AUTHORS: [D. Maspoch](#)
TITLE: From porous metal-organic frameworks to metal-organic polyhedra: a journey in miniaturization
TYPE OF PRESENTATION: Invited talk
CONGRESS: [University of Granada](#)
MEETING PLACE: Granada (Spain)
DATE: 4/02/2020

167. AUTHORS: [D. Maspoch](#)
TITLE: From porous metal-organic frameworks to metal-organic polyhedra: a journey in miniaturization
TYPE OF PRESENTATION: Invited talk
CONGRESS: [EPFL](#)
MEETING PLACE: Sion (Switzerland)

DATE: 5/12/2019

166. AUTHORS: [D. Maspoch](#)

TITLE: From porous metal-organic frameworks to metal-organic polyhedra: a journey in miniaturization

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Graz University of Technology](#)

MEETING PLACE: Graz (Austria)

DATE: 2/12/2019

165. AUTHORS: A. Villalba, S. Rodríguez-Fernández, D. Perna-Barrull, R. M. Ampudia, F. Vázquez, L. Gómez-Muñoz, E. Aguilera, [D. Maspoch](#), J. Verdaguer, M. Vives-Pi

TITLE: Novel compound identified by drug repositioning ameliorates experimental autoimmune diabetes

TYPE OF PRESENTATION: Oral communication

CONGRESS: [13th Congress of the Catalan Immunology Society](#)

MEETING PLACE: Barcelona (Spain)

DATE: 14-15/11/2019

164. AUTHORS: T. Grancha, A. Carné-Sánchez, J. Albalad, I. Imaz, [D. Maspoch](#)

TITLE: Metal-Organic Polyhedra as molecular nanoparticles

TYPE OF PRESENTATION: Oral communication

CONGRESS: [XVI Simposio de Investigadores Jóvenes de la Real Sociedad Española de Química RSEQ-SIGMA ALDRICH \(MERCK\)](#)

MEETING PLACE: Valencia (Spain)

DATE: 04-07/11/19

163. AUTHORS: M.A. Andrés, A. Carné-Sánchez, [D. Maspoch](#), I. Gascón, O. Roubeau

TITLE: Metal-Organic Polyhedra ultrathin films: fabrication and applications

TYPE OF PRESENTATION: Oral communication

CONGRESS: [EuroMOF 2019](#)

MEETING PLACE: Paris (France)

DATE: 27-30/10/2019

162. AUTHORS: T. Grancha, A. Carné-Sánchez, L. Hernández-López, J. Albalad, I. Imaz, [D. Maspoch](#)

TITLE: Rhodium(II)-based MOPs as vehicles for pH- and cation exchange-driven transport of cargoes across biphasic systems

TYPE OF PRESENTATION: Poster

CONGRESS: [EuroMOF 2019](#)

MEETING PLACE: Paris (France)

DATE: 27-30/10/2019

161. AUTHORS: A. Carné-Sánchez, J. Troyano, J. Pérez-Carvajal, L. León-Reina, I. Imaz, A. Cabeza, [D. Maspoch](#)

TITLE: From flexible MOFs to shape transforming composite materials

TYPE OF PRESENTATION: Poster

CONGRESS: [EuroMOF 2019](#)

MEETING PLACE: Paris (France)

DATE: 28-30/10/2019

160. AUTHORS: A. Carné-Sánchez, [D. Maspoch](#)

TITLE: Metal-organic polyhedra as molecular nanoparticles

TYPE OF PRESENTATION: Oral communication
CONGRESS: [EuroMOF 2019 Young Investigator Symposium](#)
MEETING PLACE: Paris (France)
DATE: 26/10/2019

159. AUTHORS: I. Imaz, C. Avci, A. Carné, [D. Maspoch](#)
TITLE: Self-assembly of polyhedral metal–organic framework particles into three-dimensional ordered superstructures
TYPE OF PRESENTATION: Oral communication
CONGRESS: [EuroMOF 2019](#)
MEETING PLACE: Paris (France)
DATE: 25-30/10/2019

158. AUTHORS: [D. Maspoch](#)
TITLE: From porous metal-organic frameworks to metal-organic polyhedra: a journey in miniaturization
TYPE OF PRESENTATION: Keynote talk
CONGRESS: [Montpellier2019 - merging GSO-JMJC-JED Days](#)
MEETING PLACE: Montpellier (France)
DATE: 18/10/2019

157. AUTHORS: S. Rodriguez-Fernandez, M. Murillo, D. Perna-Barrull, A. Villalba, [D. Maspoch](#), J. Bel, M. Vives-Pi
TITLE: Dendritic cells from paediatric patients with type 1 diabetes show altered phagocytosis capacity correlating with disease evolution
TYPE OF PRESENTATION: Poster
CONGRESS: [EASD – 55th Annual Meeting](#)
MEETING PLACE: Barcelona (Spain)
DATE: 16-20/09/2019

156. AUTHORS: V. Guillerme, [D. Maspoch](#)
TITLE: Intuitive and counter intuitive strategies for the assembly of metal-organic frameworks
TYPE OF PRESENTATION: Invited tutorial lecture
CONGRESS: [Summer school, Porous materials @ work](#)
MEETING PLACE: Graz (Austria)
DATE: 16/09/19

155. AUTHORS: A. Carné-Sánchez, J. Albalad, T. Grancha, I. Imaz, S. Furukawa, [D. Maspoch](#)
TITLE: Metal-Organic Polyhedra as Molecular Nanoparticles
TYPE OF PRESENTATION: Oral communication
CONGRESS: [21st Iranian Inorganic Chemistry Conference \(IICC21\)](#)
MEETING PLACE: Arak (Iran)
DATE: 28/08/19

154. AUTHORS: A. Carné-Sánchez, [D. Maspoch](#)
TITLE: Metal-Organic Frameworks: From fundamental properties to functional materials
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Isfahan University symposium of chemistry](#)
MEETING PLACE: Isfahan (Iran)
DATE: 27/08/19

153. AUTHORS: V. Guillerme, [D. Maspoch](#)

TITLE: Transversal reticular chemistry & Zigzag ligands: unveiling new structural opportunities for MOFs
TYPE OF PRESENTATION: Oral communication
CONGRESS: [14th International conference on materials chemistry \(MC14\)](#)
MEETING PLACE: Birmingham (United Kingdom)
DATE: 08/07/19

152. AUTHORS: J. Otero, A. García-Rodríguez, M. Cano-Sarabia, [D. Maspoch](#), R. Marcos, P. Cortés, M. Llagostera
TITLE: Biodistribution and transcytosis of liposome-encapsulated bacteriophages in oral phage therapy
TYPE OF PRESENTATION: Oral communication
CONGRESS: [XXVII Congreso Nacional de Microbiología](#)
MEETING PLACE: Málaga (Spain)
DATE: 02-05/07/19

151. AUTHORS: A. Broto-Ribas, I. Imaz, B. Ortín-Rubio, M. Shan, J. Albalad, D. A. Vermaas, [D. Maspoch](#)
TITLE: Hybrid metal-polymer materials for adsorption and catalytic applications
TYPE OF PRESENTATION: Poster
CONGRESS: [4th Annual UK Porous Materials Conference](#)
MEETING PLACE: Cardiff (United Kingdom)
DATE: 01-02/07/19

150. AUTHORS: J. Troyano, A. Carné-Sánchez, J. Pérez-Carvajal, L. León-Reina, I. Imaz, A. Cabeza, [D. Maspoch](#)
TITLE: From flexible MOFs to shape-transforming composite materials
TYPE OF PRESENTATION: Poster
CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química](#)
MEETING PLACE: San Sebastián (Spain)
DATE: 26-30/05/2019

149. AUTHORS: I. Imaz, J. Pérez-Carvajal, L. Garzón Tovar, C. Camur, J. Troyano, [D. Maspoch](#)
TITLE: MOFs and MOF-based composites generated by Spray Drying
TYPE OF PRESENTATION: Poster
CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química](#)
MEETING PLACE: San Sebastián (Spain)
DATE: 26-30/05/2019

148. AUTHORS: J. Albalad, A. Carné-Sánchez, T. Grancha, I. Imaz, [D. Maspoch](#)
TITLE: Post-synthetic covalent and coordination functionalization of rhodium(II)-based metal-organic polyhedra (MOPs)
TYPE OF PRESENTATION: Flash Oral Presentation
CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química](#)
MEETING PLACE: San Sebastián (Spain)
DATE: 26-30/05/2019

147. AUTHORS: A. Carné-Sánchez, J. Albalad, T. Grancha, I. Imaz, [D. Maspoch](#)
TITLE: Metal-organic polyhedra as molecular nanoparticles
TYPE OF PRESENTATION: Oral
CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química](#)
MEETING PLACE: San Sebastián (Spain)
DATE: 27/05/2019

146. AUTHORS: V. Guillerm, J. Albalad, H. Xu, I. Imaz, [D. Maspoch](#)
 TITLE: Ozonolysis in metal-organic frameworks: mesopore creation by clip-off chemistry
 TYPE OF PRESENTATION: Oral communication
 CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química](#)
 MEETING PLACE: San Sebastián (Spain)
 DATE: 28/05/2019
145. AUTHORS: A. Carné-Sánchez, J. Troyano, J. Pérez-Carvajal, L. León-Reina, I. Imaz, A. Cabeza, [D. Maspoch](#)
 TITLE: MOF-based composites generated by spray-drying for pollutant removal applications
 TYPE OF PRESENTATION: Poster
 CONGRESS: [6th International Conference on Multifunctional, Hybrid and Nanomaterials](#)
 MEETING PLACE: Sitges (Spain)
 DATE: 11-15/3/2019
144. AUTHORS: [D. Maspoch](#)
 TITLE: Ozonolysis in metal-organic frameworks: post-synthetic modification and mesopore creation by clip-off chemistry
 TYPE OF PRESENTATION: Keynote talk
 CONGRESS: [6th international conference on Metal-Organic Frameworks and open frameworks compounds](#)
 MEETING PLACE: Auckland (New Zealand)
 DATE: 09-13/12/2018
143. AUTHORS: A. Carné-Sánchez, J. Troyano, J. Pérez-Carvajal, L. León-Reina, I. Imaz, A. Cabeza, [D. Maspoch](#)
 TITLE: Transferring the breathing behaviour of flexible MOF crystals to macroscopic soft materials
 TYPE OF PRESENTATION: Oral communication
 CONGRESS: [6th international conference on Metal-Organic Frameworks and open frameworks compounds](#)
 MEETING PLACE: Auckland (New Zealand)
 DATE: 09-13/12/2018
142. AUTHORS: [D. Maspoch](#)
 TITLE: A brief history of the spray-drying synthesis of MOFs and MOF- based composites: from the lab to scale-up production.
 TYPE OF PRESENTATION: Invited talk
 CONGRESS: [6th international conference on Metal-Organic Frameworks and open frameworks compounds](#)
 MEETING PLACE: Auckland (New Zealand)
 DATE: 09-13/12/2018
141. AUTHORS: [D. Maspoch](#)
 TITLE: Ozonolysis in Metal-Organic Frameworks: Post-Synthetic Modification and Mesopore Creation by Clip-Off Chemistry
 TYPE OF PRESENTATION: Keynote talk
 CONGRESS: [Novel Porous Materials Symposium](#)
 MEETING PLACE: Adelaide (Australia)
 DATE: 07/12/2018

140. AUTHORS: S. Rodriguez-Fernandez, D. Perna-Barrull, I. Pujol-Autonell, M. Cano-Sarabia, F. Vazquez, M. Murillo, A. Villalba, J. Bel, J. Verdaguer, [D. Maspoch](#), M. Vives-Pi
TITLE: Phosphatidylserine-liposomes render tolerogenic dendritic cells from adult and paediatric patients with type 1 diabetes through apoptotic mimicry.
TYPE OF PRESENTATION: Poster
CONGRESS: [12th Congress of the Catalan Immunology Society](#)
MEETING PLACE: Barcelona (Spain)
DATE: 15-16/11/2018

139. AUTHORS: A. Villalba Felipe, S. Rodriguez-Fernandez, D. Perna-Barrull, R. Ampudia, I. Pujol-Autonell, C. Ehrenberg, E. Aguilera, M. Coma, [D. Maspoch](#), F. Vazquez, M. Vives-Pi
TITLE: Combined therapy for type 1 diabetes based on drug-repurposing. Immunotherapy and regenerative strategies.
TYPE OF PRESENTATION: Poster
CONGRESS: [12th Congress of the Catalan Immunology Society](#)
MEETING PLACE: Barcelona (Spain)
DATE: 15-16/11/2018

138. AUTHORS: S. Rodriguez-Fernandez, D. Perna-Barrull, I. Pujol-Autonell, M. Cano-Sarabia, F. Vázquez, M. Murillo, A. Villalba, J. Bel, J. Verdaguer, [D. Maspoch](#), M. Vives-Pi
TITLE: Lessons from apoptotic mimicry: induction of tolerance in dendritic cells from adult and paediatric patients with type 1 diabetes by liposomes
TYPE OF PRESENTATION: Poster
CONGRESS: [Immunology of diabetes society 2018 \(IDS2018\)](#)
MEETING PLACE: London (UK)
DATE: 25-29/10/2018

137. AUTHORS: M. Cano-Sarabia, S. Fernández-de-Retana, A. Montañola, C. Merino-Zamorano, J. Montaner, [D. Maspoch](#), M. Hernández-Guillamon
TITLE: Controlling the interaction between magnetic molecules and topological surface states via ligand chemistry
TYPE OF PRESENTATION: Poster
CONGRESS: [10th Microencapsulation Training School](#)
MEETING PLACE: Trondheim (Norway)
DATE: 18-21/09/2018

136. AUTHORS: C. Avci-Camur, J. Troyano, J. Perez-Carvajal, A. Legrand, D. Farrusseng, I. Imaz, [D. Maspoch](#)
TITLE: Synthesis of MOFs and MOF-based nanocomposites using spray-drying
TYPE OF PRESENTATION: Oral communication
CONGRESS: [e-MRS fall meeting](#)
MEETING PLACE: (Warsaw) Poland
DATE: 17-20/09/2018

135. AUTHORS: J. Perez-Carvajal, [D. Maspoch](#)
TITLE: Composite salt in porous metal-organic frameworks for adsorption heat transformation
TYPE OF PRESENTATION: Invited talk
CONGRESS: [1st European symposium of sorption science](#)
MEETING PLACE: Viena (Austria)
DATE: 05-07/09/2018

134. AUTHORS: [D. Maspoch](#)
TITLE: Mesoscale assembly of MOF particles into three-dimensional ordered superstructures

TYPE OF PRESENTATION: Keynote speaker

CONGRESS: [43rd International Conference on Coordination Chemistry ICC2018 / Sendai](#)

MEETING PLACE: (Sendai) Japan

DATE: 28/07/2018-04/08/2018

133. AUTHORS: I. Imaz, J. Pérez-Carvajal, L. Garzón Tovar, C. Avci, J. Troyano, [D. Maspoch](#)

TITLE: MOFs and MOF-based composites generated by Spray-Drying

TYPE OF PRESENTATION: Oral communication

CONGRESS: [43rd International Conference on Coordination Chemistry ICC2018 / Sendai](#)

MEETING PLACE: (Sendai) Japan

DATE: 28/07/2018-04/08/2018

132. AUTHORS: M. G. Cuxart, M. A. Valbuena, F. Bonell, C. Moreno, J. Cruz, I. Imaz, [D. Maspoch](#), C. Nistor, P. Gargiani, P. Gambardella, S. Valenzuela, A. Mugarza

TITLE: Controlling the interaction between magnetic molecules and topological surface states via ligand chemistry

TYPE OF PRESENTATION: Oral communication

CONGRESS: [Fuerzas y Túnel 2018 Conference](#)

MEETING PLACE: Jaca (Spain)

DATE: 27-29/06/2018

131. AUTHOR: V. Guillermin, [D. Maspoch](#)

TITLE: Ozonolysis as a solid-gas post-synthetic tuning of porosity in Metal-Organic Frameworks

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Materials Day](#)

MEETING PLACE: IREC Barcelona (Spain)

DATE: 12/06/2018

130. AUTHORS: C. Avci, I. Imaz, A. Carné-Sánchez, J. A. Pariente, N. Tasios, J. Pérez-Carvajal, M. I. Alonso, A. Blanco, M. Dijkstra, C. López, [D. Maspoch](#)

TITLE: Self-assembly of polyhedral metal-organic framework particles into three-dimensional ordered superstructures

TYPE OF PRESENTATION: Oral communication

CONGRESS: [docMOF 2018 : 1st European Doctoral Symposium on Metal-Organic Frameworks](#)

MEETING PLACE: Raitenhaslach (Germany)

DATE: 29/04/2018-02/05/2018

129. AUTHORS: S. Rodríguez-Fernández, I. Pujol-Autonell, D. Perna-Barrull, M. Cano-Sarabia, A. Villalba, E. Aguilera, F. Vázquez, J. Verdager, [D. Maspoch](#), M. Vives-Pi

TITLE: Phosphatidylserine-liposomes promote tolerogenic features on dendritic cells in human type 1 diabetes by apoptotic mimicry

TYPE OF PRESENTATION: Oral communication.

CONGRESS: [XXIX Congreso de la Sociedad Española de Diabetes](#)

MEETING PLACE: Oviedo (Spain)

DATE: 18-20/04/2018

128. AUTHORS: S. Rodríguez-Fernández; I. Pujol-Autonell, F. Briansó, D. Perna-Barrull, M. Cano-Sarabia, S. García-Jimeno, A. Villalba, A. Sánchez, E. Aguilera, F. Vázquez, J. Verdager, [D. Maspoch](#), M. Vives-Pi

TITLE: Antigen-specific liposomal nanotherapy drives immunoregulation in human type 1 diabetes

TYPE OF PRESENTATION: Oral communication

CONGRESS: [XI Congrés de la Societat Catalana d'Immunologia](#)

MEETING PLACE: Barcelona (Spain)
DATE: 16-17/11/2017

127. AUTHORS: J. Espin, L. Garzón-Tovar, A. Carné-Sánchez, I. Imaz, [D. Maspoch](#)
TITLE: Photothermal activation of metal-organic frameworks using a UV-Vis light source
TYPE OF PRESENTATION: Oral communication
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)
DATE: 29/10/2017-01/11/2017

126. AUTHORS: B. Chocarro-Ruiz, J. Pérez, C. Avci, L. Lechuga, [D. Maspoch](#)
TITLE: Novel photonic nanosensor integrating MOFs as specific receptors for gas sensing
TYPE OF PRESENTATION: Poster
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)
DATE: 29/10/2017-01/11/2017

125. AUTHORS: H. Xu, J. Albalad, J. Pérez, I. Imaz, [D. Maspoch](#)
TITLE: Solid-gas phase post-modification of metal-organic frameworks through ozonolysis
TYPE OF PRESENTATION: Poster
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)
DATE: 29/10/2017-01/11/2017

124. AUTHORS: J. Pérez-Carvajal, L. Carlos Garzón-Tovar, I. Imaz, [D. Maspoch](#)
TITLE: Composite salt in porous metal-organic frameworks for adsorption heat transformation
TYPE OF PRESENTATION: Poster
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)
DATE: 29/10/2017-01/11/2017

123. AUTHORS: C. Avci-Camur, L. Garzón-Tovar, D. Rodríguez-San-Miguel, I. Imaz, F. Zamora, [D. Maspoch](#)
TITLE: Spray drying for making covalent chemistry II: synthesis of covalent-organic framework superstructures and related composites
TYPE OF PRESENTATION: Poster
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)
DATE: 29/10/2017-01/11/2017

122. AUTHORS: I. Imaz, C. Avci, A. Yazdi, X. Ribas, M. Tarres, N. Bastus, V. Puentes, [D. Maspoch](#)
TITLE: Multi-shelled MOF-INP composites synthesized by a sequential etching/re-growth approach
TYPE OF PRESENTATION: Poster
CONGRESS: [2nd European Conference on Metal Organic Frameworks and Porous Polymers \(EUROMOF 2017\)](#)
MEETING PLACE: Delft (The Netherlands)

DATE: 29/10/2017-01/11/2017

121. AUTHORS: J. Giner Planas, M.Y. Tsang, S. Rodríguez-Hermida, C. Vignatti, K.C. Stylianou, V. Guillerm, J. Pérez-Carvajal, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, I. Peral, J. Juanhuix, I. Imaz, [D. Maspoch](#)

TITLE: Switchable surface hydrophobicity-hydrophilicity of a carborane based mof

TYPE OF PRESENTATION: Oral communication

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

120. AUTHORS: J. Espín Martí, J. Albalad Alcalá, I. Imaz Gabilondo, [D. Maspoch](#)

TITLE: Design and synthesis of new photo-responsive coordination polymers

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

119. AUTHORS: L.C. Garzón Tovar, J. Perez Carvajal, I. Imaz, [D. Maspoch](#)

TITLE: Composite salt in porous metal-organic frameworks for adsorption heat transformation

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

118. AUTHORS: A. Yazdi, L.C. Garzón Tovar, J. Patarroyo, F. Mercoçi, N. Bastús, I. Imaz, V. Puentes, [D. Maspoch](#), A. Abo Markeb, A. Alonso, X. Font, T. Gea , A.J. Moral Vico , A. Sanchez Ferrer

TITLE: Incorporating inorganic nanoparticles into Metal-Organic Frameworks for heterogeneous catalysis

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

117. AUTHORS: J. Troyano Prieto, C. Avci, L.C. Garzón Tovar, A. Legrand, I. Imaz, [D. Maspoch](#)

TITLE: Continuous water-based spray-drying synthesis of mofs with industrial relevance

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

116. AUTHORS: J. Albalad Alcalá, J. Aríñez Soriano, J. Juanhuix, N. Aliaga Alcalde, I. Imaz, [D. Maspoch](#)

TITLE: Hetero-bimetallic paddlewheel clusters in coordination polymers formed by a water-induced single-crystal to single-crystal transformation

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

115. AUTHORS: V. Guillerm, L. Garzón-Tovar, A. Yazdi, I. Imaz, J. Juanhuix, [D. Maspoch](#)

TITLE: Spray-drying method for the one-step synthesis of ready-to use CO₂ sorbents based on isoreticular M-XF₆-MOFS

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

114. AUTHORS: L. Garzón-Tovar, S. Rodríguez-Hermida, I. Imaz, [D. Maspoch](#)

TITLE: Covalent post-synthetic modification of Metal-Organic Frameworks by spray drying technique

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

113. AUTHORS: C. Vignatti Abellan, J. Luis, R. Mas, J. Aleman, I. Imaz, [D. Maspoch](#)

TITLE: Organocatalytic tandem and multicomponent reactions by Zn-MOF squaramide materials under solvent free conditions

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

112. AUTHORS: M.Y. Tsang, S. Rodríguez-Hermida, K.C. Stylianou, F. Tan, D. Negi, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, M. Guerrero, J. Sort, J. Juanhuix, [D. Maspoch](#), J. Giner Planas

TITLE: Carborane bis-pyridylalcohols as linkers for coordination polymers: synthesis, crystal structures and guest-framework dependent mechanical properties

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

111. AUTHORS: G. Boix I Soler, I. Imaz Gabilondo, [D. Maspoch](#), J. Patarroyo Rengifo, N. Gómez Bastus, V. Franco Puentes

TITLE: INP@MOF nanocomposites as NIR-activated drug delivery systems

TYPE OF PRESENTATION: Poster

CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

110. AUTHORS: [D. Maspoch](#)

TITLE: Porous Metal-Organic Frameworks: from bulk to the nanoscale

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Universidad Jaume I](#)

MEETING PLACE: Castellón (Spain)

DATE: 20/01/2017

109. AUTHORS: S. Rodríguez-Fernández, I. Pujol-Autonell, M.J. Mansilla, M. Cano-Sarabia, R.M. Ampudia, J. Navarro-Barriuso, S. García-Jimeno, D. Perna-Barrull, C. Izquierzo, T. Stratmann, E. Martínez-Cáceres, J. Verdager, [D. Maspoch](#), M. Vives-Pi

TITLE: Diving into apoptosis: liposome-based platform for autoimmune diseases

TYPE OF PRESENTATION: Oral communication

CONGRESS: [X Congrés de la Societat Catalana d'Immunologia](#)
MEETING PLACE: Barcelona (Spain)
DATE: 17-18/11/2016

108. AUTHORS: [D. Maspoch](#)
TITLE: Functional Metal-Organic Frameworks (from bulk to nanoscale): making composites with nanoscale ZIF-8
TYPE OF PRESENTATION: Invited talk
CONGRESS: [ICREA Conference on Functional Nanocontainers](#)
MEETING PLACE: Tarragona (Spain)
DATE: 17-20/10/2016

107. AUTHORS: S. Fernández de-Retana, A. Montañola, J.L. Sánchez-Quesada, [D. Maspoch](#), M. Cano-Sarabia, M. Hernández-Guillamón
TITLE: Synthesis and characterization of rHDL-rApoJ nanoparticles
TYPE OF PRESENTATION: Oral communication
CONGRESS: [X Simposi de Neurobiologia / Societat Catalana de Biologia](#)
MEETING PLACE: Barcelona (Spain)
DATE: 06-07/10/2016

106. AUTHORS: M. Y. Tsang, S. Rodríguez-Hermida, C. Vignatti, K. C. Stylianou, V. Guillerme, J. Pérez, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo Escamilla, I. Peral, J. Juanhuix, I. Imaz, [D. Maspoch](#), J. Giner Planas
TITLE: Novel carborane-based Metal-Organic Frameworks for water stability
TYPE OF PRESENTATION: Oral communication.
CONGRESS: [6th EuCheMS Congress](#)
MEETING PLACE: Sevilla (Spain)
DATE: 11-15/09/2016

105. AUTHORS: V. Safarifard, Sabina Rodríguez-Hermida, Vincent Guillerme, Inhar Imaz, Mina Bigdeli, Jordi Juanhuix, Ali Morsali, Enrique V. Ramos-Fernández, [D. Maspoch](#)
TITLE: Importance of the amide groups in CO₂/N₂ selectivity of a series of isorecticular, interpenetrated Metal-Organic Framework
TYPE OF PRESENTATION: Oral communication
CONGRESS: [5th International Conference on Metal-Organic Frameworks & Open Frameworks Compounds](#)
MEETING PLACE: Long Beach (California, EEUU)
DATE: 11-15/09/2016

104. AUTHORS: S. Rodríguez-Hermida, M. Ying Tsang, C. Vignatti, K. C. Stylianou, V. Guillerme, J. Pérez-Carvajal, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, I. Peral, J. Juanhuix, I. Imaz, J. Giner Planas, [D. Maspoch](#)
TITLE: A Metal-Organic Framework with switchable surface wettability
TYPE OF PRESENTATION: Oral communication
CONGRESS: [2016 MOF Young Investigator Symposium](#)
MEETING PLACE: San Diego (California, EEUU)
DATE: 10/09/2016

103. AUTHORS: S. Fernández de-Retana, A. Montañola, J.L. Sánchez-Quesada, [D. Maspoch](#), M. Cano-Sarabia, M. Hernández-Guillamón
TITLE: Synthesis and characterization of rHDL-rApoJ nanoparticles
TYPE OF PRESENTATION: Poster
CONGRESS: [5th International Cerebral Amyloid Angiopathy Conference](#)

MEETING PLACE: Boston MA (USA)
DATE: 08-10/09/2016

102. AUTHORS: I. Imaz, C. Avci, A. Yazdi, J. Ariñez-Soriano, A. Carne-Sanchez, V. Guillermin, C. Carbonell, [D. Maspoch](#)
TITLE: Multi-shelled MOF-INP composites synthesized by a sequential etching/re-growth approach
TYPE OF PRESENTATION: Invited talk
CONGRESS: [IV Meeting of the Italian and Spanish Crystallographic Associations](#)
MEETING PLACE: Puerto de la Cruz (Spain)
DATE: 21-25/06/2016

101. AUTHORS: P. Cortés, J. Colom, M. Cano-Sarabia, J. Otero, M. Sánchez, [D. Maspoch](#), M. Llagostera
TITLE: Eficacia de la encapsulación de bacteriófagos en fagoterapia oral.
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Reunión de la Red Fagoma II](#)
MEETING PLACE: Oviedo (Spain)
DATE: 13-14/06/2016

100. AUTHORS: I. Pujol-Autonell, S. Rodríguez-Fernández, E. Aguilera, M. Cano-Sarabia, R. M. Ampudia, F. Vázquez, [D. Maspoch](#), M. Puig-Domingo, J. Verdaguer, M. Vives-Pi
TITLE: Liposomes mimicking apoptotic β -cells: a new immunotherapy for type 1 diabetes.
TYPE OF PRESENTATION: Poster
CONGRESS: [8ª Jornada de Recerca de l'Institut Català de la Salut](#)
MEETING PLACE: Girona (Spain)
DATE: 03/06/2016

99. AUTHORS: H. Xu, I. Imaz, [D. Maspoch](#)
TITLE: Metal-Organic Polymers made of cyclodextrins.
TYPE OF PRESENTATION: Poster + Flash Presentation
CONGRESS: [Jornades Doctorals UAB](#)
MEETING PLACE: Bellaterra (Spain)
DATE: 01-03/06/2016

98. AUTHORS: J. Espín, C. Vignatti, J. Albalad, I. Imaz, [D. Maspoch](#)
TITLE: Design and synthesis of new photo-responsive coordination polymers.
TYPE OF PRESENTATION: Poster + Flash presentation
CONGRESS: [Jornades Doctorals UAB](#)
MEETING PLACE: Bellaterra (Spain)
DATE: 01-03/06/2016

97. AUTHORS: A. Ayala, I. Imaz, [D. Maspoch](#)
TITLE: Multifunctional metallic Janus MOF particles synthesized by the desymmetrization at interfaces approach
TYPE OF PRESENTATION: Oral communication
CONGRESS: [NANOTECH France 2016](#)
MEETING PLACE: Paris (France)
DATE: 01-03/06/2016

96. AUTHORS: I. Pujol-Autonell, S. Rodríguez-Fernández, E. Aguilera, M. Cano-Sarabia, R. M. Ampudia, F. Vázquez, [D. Maspoch](#), M. Puig-Domingo, J. Verdaguer, M. Vives-Pi
TITLE: Liposomes mimicking apoptotic β -cells: a new immunotherapy for type 1 diabetes

TYPE OF PRESENTATION: Poster
CONGRESS: [CIBERDEM Annual Meeting](#)
MEETING PLACE: Bellaterra (Spain)
DATE: 11-13/05/2016

95. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale MOFs (from synthesis to applications)
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Van't Hoff Institute for Molecular Sciences, University of Amsterdam](#)
MEETING PLACE: Amsterdam (The Netherlands)
DATE: 21/04/2016

94. AUTHORS: I. Pujol-Autonell, S. Rodríguez-Fernández, M. Cano-Sarabia, R. Ampudia, [D. Maspoch](#), J. Verdaguer, M. Vives-Pi
TITLE: Liposomes mimicking apoptotic cells: a new strategy to induce tolerogenic dendritic cells
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Workshop on cell-based tolerogenic therapies for early career investigators](#).
MEETING PLACE: London (United Kingdom)
DATE: 15-16/03/2016

93. AUTHORS: J. Espín, À. Ruyra, A. Yazdı, A. Carné-Sánchez, N. Roher, J. Lorenzo, I. Imaz, [D. Maspoch](#)
TITLE: Synthesis, culture medium stability, and *in vitro* and *in vivo* zebrafish embryo toxicity of metal-organic framework nanoparticles
TYPE OF PRESENTATION: Poster
CONGRESS: [1st European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF 2015\)](#)
MEETING PLACE: Potsdam (Germany)
DATE: 11-14/10/2015

92. AUTHORS: M. Tsang, F. Teixidor, C. Viñas, J. Giner-Planas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, K. Stylianou, S. Rodríguez-Hermida, I. Imaz, [D. Maspoch](#)
TITLE: Novel carborane-based dipyrindine linkers for Metal-Organic Frameworks
TYPE OF PRESENTATION: Poster
CONGRESS: [1st European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF 2015\)](#)
MEETING PLACE: Potsdam (Germany)
DATE: 11-14/10/2015

91. AUTHORS: V. Safarifard, M. Bidgeli, A. Morsali, S. Rodríguez-Hermida, C. Carbonell, V. Guillerm, I. Imaz, [D. Maspoch](#)
TITLE: A new family of Zn-Metal-Organic Frameworks with amide-functionalized pores for CO₂ capture
TYPE OF PRESENTATION: Poster
CONGRESS: [1st European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF 2015\)](#)
MEETING PLACE: Potsdam (Germany)
DATE: 11-14/10/2015

90. AUTHORS: I. Imaz, J. Aríñez, A. Carné-Sánchez, C. Bonnet, J. Albalad, F. Busqué, E. Thot, [D. Maspoch](#)
TITLE: New generation of Metal-Organic Frameworks for MRI
TYPE OF PRESENTATION: Oral communication

CONGRESS: 1st European Conference on Metal Organic Frameworks and Porous Polymers (EuroMOF 2015)

MEETING PLACE: Potsdam (Germany)

DATE: 11-14/10/2015

89. AUTHORS: J. Aríñez, A. Carné-Sánchez, I. Imaz, F. Busqué, [D. Maspoch](#)

TITLE: Metal-Organic Frameworks for Medical Resonance Imaging

TYPE OF PRESENTATION: Oral communication

CONGRESS: [Young Investigator EuroMOF Symposium](#)

MEETING PLACE: Berlin (Germany)

DATE: 09-10/10/2015

88. AUTHORS: M. Cano-Sarabia, J. Colom, J. Otero, S. Campoy, P. Cortés, M. Llagostera, [D. Maspoch](#)

TITLE: Bacteriophage loaded liposomes for controlling *Salmonella* colonization in broilers

TYPE OF PRESENTATION: Oral communication

CONGRESS: [NANOBIOAPP 2015 \(Latest Advances on Nanomaterials for Biomedical Applications\)](#)

MEETING PLACE: Barcelona (Spain)

DATE: 21-23/09/2015

87. AUTHORS: M. Cano-Sarabia, J. Colom, J. Otero, S. Campoy, P. Cortés, M. Llagostera, [D. Maspoch](#)

TITLE: Bacteriophage loaded liposomes for controlling *Salmonella* colonization in broilers

TYPE OF PRESENTATION: Poster

CONGRESS: [CRS \(Controlled Release Society\) Annual Meeting & Exposition](#)

MEETING PLACE: Edinburgh (Scotland)

DATE: 25-27/07/2015

86. AUTHORS: J. Colom, M. Cano-Sarabia, J. Otero, S. Campoy, P. Cortés, [D. Maspoch](#), M. Llagostera

TITLE: Fagoterapia basada en nanocápsulas lipídicas de bacteriófagos

TYPE OF PRESENTATION: Oral communication + Poster

CONGRESS: [XXV Congreso Nacional de Microbiología – SEM 2015](#)

MEETING PLACE: Logroño (Spain)

DATE: 07-10/07/2015

85. AUTHORS: I. Pujol-Autonell, S. Rodríguez-Fernández, M. Cano-Sarabia, R. M. Ampudia, A. Lucas, [D. Maspoch](#), J. Verdaguer, M. Vives-Pi

TITLE: Liposome-based immunotherapy to arrest autoimmunity in type 1 diabetes

TYPE OF PRESENTATION: Poster

CONGRESS: [Immunology of Diabetes Society 14th International Congress](#)

MEETING PLACE: Munich (Germany)

DATE: 12-16/04/2015

84. AUTHORS: A. Ayala, I. Imaz, [D. Maspoch](#)

TITLE: Synthesis and selective surface functionalization of MOF composites

TYPE OF PRESENTATION: Poster

CONGRESS: [1er Simposio Sobre Propiedades y Aplicaciones de MOFs y COFs](#)

MEETING PLACE: Granada (Spain)

DATE: 09-10/04/2015

83. AUTHORS: I. Imaz, A. Carné-Sánchez, J. Aríñez, C. Carbonell, [D. Maspoch](#)

TITLE: Nanoscale MOFs: synthesis, toxicity and new properties
TYPE OF PRESENTATION: Oral communication
CONGRESS: [1er Simposio Sobre Propiedades y Aplicaciones de MOFs y COFs](#)
MEETING PLACE: Granada (Spain)
DATE: 09-10/04/2015

82. AUTHORS: I. Burneo, I. Imaz, [D. Maspoch](#)
TITLE: The influence of the enantiomeric ratio of an organic ligand on the structure and chirality of metal-organic frameworks
TYPE OF PRESENTATION: Poster
CONGRESS: [Fourth International Conference on Hybrid Materials](#)
MEETING PLACE: Sitges (Spain)
DATE: 09-13/03/2015

81. AUTHORS: L. Garzón-Tovar, I. Imaz, [D. Maspoch](#)
TITLE: Synthesis of MOFs superstructures and advanced MOF-based composites by spray-drying technique
TYPE OF PRESENTATION: Poster
CONGRESS: [Fourth International Conference on Hybrid Materials](#)
MEETING PLACE: Sitges (Spain)
DATE: 09-13/03/2015

80. AUTHORS: J. Ariñez, I. Imaz, [D. Maspoch](#)
TITLE: Design and synthesis of submicron diagnostic systems based on metal-organic frameworks
TYPE OF PRESENTATION: Poster
CONGRESS: [Fourth International Conference on Hybrid Materials](#)
MEETING PLACE: Sitges (Spain)
DATE: 09-13/03/2015

79. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale supramolecular materials: liposomes, metal-organic frameworks and surfaces
TYPE OF PRESENTATION: Invited talk
CONGRESS: [V Workshop NANOUCO](#)
MEETING PLACE: Cordoba (Spain)
DATE: 06/02/2015

78. AUTHORS: J. G. Tudela, À. Ruyra, A. Martínez-López, M. Cano-Sarabia, [D. Maspoch](#), A. Estepa, N. Roher
TITLE: Comparison of different nanoliposomes compositions as delivery systems for DNA vaccines in acuaculture
TYPE OF PRESENTATION: Poster
CONGRESS: [III International Workshop on Nanomedicine](#)
MEETING PLACE: Barcelona (Spain)
DATE: 27/11/2014

77. AUTHORS: I. Pujol, A. Secarrant; M, Cano-Sarabia. R. M. Ampudia, M. Puig-Domingo, [D. Maspoch](#), J. Verdaguer, M. Vives-Pi
TITLE: Liposome-based immunotherapy for type 1 diabetes
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Reunión anual del grupo de islotes de la sociedad Española de diabetes \(SED\)](#)
MEETING PLACE: Madrid (Spain)
DATE: 16/10/2014

76. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale MOFs: synthesis, toxicity and new properties
TYPE OF PRESENTATION: Invited talk
CONGRESS: [4th International Conference on Metal-Organic Frameworks & Open-Framework Compounds](#)
MEETING PLACE: Kobe (Japan)
DATE: 29/09/2014

75. AUTHORS: I. Imaz, A. Carné-Sánchez, [D. Maspoch](#)
TITLE: Nanoscale MOFs for contrast agent applications
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Young MOF Symposium 2014](#)
MEETING PLACE: Kyoto (Japan)
DATE: 26/09/2014

74. AUTHORS: [D. Maspoch](#)
TITLE: Nanoscale Metal-Organic Frameworks (nanoMOFs)
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Institut Ciència de Materials de Barcelona \(ICMAB-CSIC\)](#)
MEETING PLACE: Barcelona (Spain)
DATE: 22/09/2014

73. AUTHORS: [D. Maspoch](#)
TITLE: Nanotechnology & Supramolecular chemistry: hand in hand
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Universitat de Girona](#)
MEETING PLACE: Girona (Spain)
DATE: 16/09/2014

72. AUTHORS: J. Colom, M. Cano-Sarabia, J. Otero, P. Cortes, [D. Maspoch](#), M. Llagostera
TITLE: Lipidic coated bacteriophages for controlling Salmonella colonization
TYPE OF PRESENTATION: Oral communication
CONGRESS: [EMBO conference: Viruses of microbes structure and function, from molecules to communities](#)
MEETING PLACE: Zurich (Switzerland)
DATE: 14-18/07/2014

71. AUTHORS: M. Cano-Sarabia, A. Secarrant, I. Pujol, R. M. Ampudia, A. Sanchez, M. Puig-Domingo, J. Verdaguer, M. Vives-Pi, [D. Maspoch](#)
TITLE: Encapsulation of insulin peptides in liposomes for preventing type 1 diabetes in NOD mice
TYPE OF PRESENTATION: Poster
CONGRESS: [Controlled Release Society Annual Meeting and Exposition](#)
MEETING PLACE: Chicago (USA)
DATE: 13-16/07/2014

70. AUTHORS: À. Ruyra, M. Cano-Sarabia, P. Gracia Valtanen, D. Yero, I. Gibert, S. A. Mackenzie, A. Estepa, [D. Maspoch](#), N. Roher
TITLE: Biodistribution and vaccination efficiency of nanosized liposomes loaded with immunostimulants in zebrafish
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Controlled Release Society Annual Meeting and Exposition](#)
MEETING PLACE: Chicago (USA)
DATE: 13-16/07/2014

69. AUTHORS: [D. Maspoch](#)
 TITLE: Nanoscale Metal-Organic Frameworks
 TYPE OF PRESENTATION: Invited talk
 CONGRESS: [Instituto de Nanociencia de Aragón \(INA\)](#)
 MEETING PLACE: Zaragoza (Spain)
 DATE: 14/05/2014
68. AUTHORS: [D. Maspoch](#)
 TITLE: Biocide2Life
 TYPE OF PRESENTATION: Invited talk
 CONGRESS: [Catalan Technology: an overview on Prova't Projects. First CERCA Conference](#)
 MEETING PLACE: Barcelona (Spain)
 DATE: 28/04/2014
67. AUTHORS: [D. Maspoch](#)
 TITLE: A new type of nanomaterials: Nanoscale Metal-Organic Frameworks
 TYPE OF PRESENTATION: Invited talk
 CONGRESS: [Universitat de Barcelona \(UB\)](#)
 MEETING PLACE: Barcelona (Spain)
 DATE: 22/04/2014
66. AUTHORS: I. Imaz, A. Carné, M. Cano, [D. Maspoch](#)
 TITLE: Massive production of nanoMOFs by spray-drying
 TYPE OF PRESENTATION: Oral communication
 CONGRESS: [1st International Symposium on Nanoparticles/Nanomaterials and Applications \(isn2a2014\)](#)
 MEETING PLACE: Caparica (Portugal)
 DATE: 21/01/2014
65. AUTHORS: K. C. Stylianou, [D. Maspoch](#)
 TITLE: Femtolitre Chemistry assisted by Microfluidic Pen Lithography (MPL)
 TYPE OF PRESENTATION: Oral communication
 CONGRESS: [1st International Symposium on Nanoparticles/Nanomaterials and Applications \(isn2a2014\)](#)
 MEETING PLACE: Caparica (Portugal)
 DATE: 21/01/2014
64. AUTHORS: A. Carné-Sánchez, A. Yazdi, I. Imaz, J. Lorenzo, C. Bonet, [D. Maspoch](#)
 TITLE: Metal-Organic Frameworks for biomedical applications
 TYPE OF PRESENTATION: Poster
 CONGRESS: [Workshop on Nanomedicine \(UABCEI\)](#)
 MEETING PLACE: Bellaterra (Spain)
 DATE: 08/10/2013
63. AUTHORS: [D. Maspoch](#)
 TITLE: Nanoscale Metal-Organic Frameworks: synthesis and assembly in the air and on surfaces
 TYPE OF PRESENTATION: Invited talk
 CONGRESS: [XXXIV Reunion Bial Real Sociedad Española de Química](#)
 MEETING PLACE: Santander (Spain)
 DATE: 16-18/09/2013
62. AUTHORS: K. C. Stylianou, [D. Maspoch](#)

TITLE: Femtolitre Chemistry assisted by Microfluidic Pen Lithography (MPL)
TYPE OF PRESENTATION: Oral communication
CONGRESS: [International MOF Symposium 2013](#)
MEETING PLACE: International Congress Center Dresden. Dresden (Germany)
DATE: 15-17/09/2013

61. AUTHORS: À. Ruyra, [M. Cano-Sarabia](#), S. MacKenzie, N. Roher, [D. Maspoch](#)
TITLE: Liposomes as novel immunostimulant delivery system in aquaculture
TYPE OF PRESENTATION: Oral communication
CONGRESS: [19th International Symposium on Microencapsulation](#)
MEETING PLACE: Universidad de Navarra, Pamplona (Spain)
DATE: 9-11/09/2013

60. AUTHORS: K. C. Stylianou, [D. Maspoch](#)
TITLE: Femtolitre Chemistry assisted by Microfluidic Pen Lithography (MPL)
TYPE OF PRESENTATION: Oral communication
CONGRESS: [EUROMAT 2013](#)
MEETING PLACE: Seville (Spain)
DATE: 8-13/09/2013

59. AUTHORS: E. Evangelio, A. Foucault-Collet, S. V. Eliseeva, M. Allix, E. Veron, A. Yazdi, A. Carné, K. A. White, K. A. Gogick, I. Imaz, [D. Maspoch](#), N. L. Rosi, S. Petoud
TITLE: Near-infrared emitting lanthanide nanoscale MOFs for biological imaging
TYPE OF PRESENTATION: Poster
CONGRESS: [ICBIC 16](#)
MEETING PLACE: Grenoble (France)
DATE: 22/07/2013

58. AUTHORS: À. Ruyra, M. Cano-Sarabia, S. MacKenzie, N. Roher, [D. Maspoch](#)
TITLE: Toxicity, uptake and gene expression studies of liposomes used as vaccine delivery systems in aquaculture
TYPE OF PRESENTATION: Poster
CONGRESS: [ImagineNano 2013](#)
MEETING PLACE: Bilbao (Spain)
DATE: 22-26/04/2013

57. AUTHORS: À. Ruyra, M. Cano-Sarabia, S. MacKenzie, N. Roher, [D. Maspoch](#)
TITLE: Liposomes as Novel Immunostimulant Delivery System in Aquaculture
TYPE OF PRESENTATION: Oral communication
CONGRESS: [ImagineNano 2013](#)
MEETING PLACE: Bilbao (Spain)
DATE: 22-26/04/2013

56. AUTHORS: J. Ariñez, A. Carné-Sánchez, A. Yazdi, I. Imaz, J. Lorenzo, C. Bonet, [D. Maspoch](#)
TITLE: Metal-Organic Frameworks for biomedical applications
TYPE OF PRESENTATION: Poster
CONGRESS: [ImagineNano 2013](#)
MEETING PLACE: Bilbao (Spain)
DATE: 22-26/04/2013

55. AUTHORS: M. Rubio-Martínez, J. Puigmartí-Luis, I. Imaz, [D. Maspoch](#)
TITLE: One-dimensional metal-amino acid and metal-peptide nanostructures and their use as templates for inorganic nanoparticle superstructure synthesis

TYPE OF PRESENTATION: Poster
CONGRESS: [ImagineNano 2013](#)
MEETING PLACE: Bilbao (Spain)
DATE: 22-26/04/2013

54. AUTHORS: A. Carné-Sánchez, M. Cano, I. Imaz, [D. Maspoch](#)
TITLE: Massive production of nanoMOFs by spray-drying
TYPE OF PRESENTATION: Oral communication
CONGRESS: [ImagineNano 2013](#)
MEETING PLACE: Bilbao (Spain)
DATE: 22-26/04/2013

53. AUTHORS: [D. Maspoch](#)
TITLE: Nanochemistry is in the air and on surfaces: synthesis and assembly of nanoscale Metal-Organic Frameworks
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Institute of Nuclear Chemistry and Technology](#)
MEETING PLACE: Warsaw (Poland)
DATE: 15-18/04/2013

52. AUTHORS: M. Cano-Sarabia, S. García, N. Mejias, [D. Maspoch](#)
TITLE: Micro- and Nanoencapsulation: solutions for industrial applications
TYPE OF PRESENTATION: Poster
CONGRESS: [Vth training School on Bioencapsulation](#)
MEETING PLACE: Nantes (France)
DATE: 8-12/04/2013

51. AUTHORS: C. Carbonell, [D. Maspoch](#)
TITLE: Microscopía confocal para el seguimiento de química en femtolitros, asistida por litografía basada en sonda
TYPE OF PRESENTATION: Oral communication
CONGRESS: [Jornadas de Microscopía Confocal aplicada a materiales, Universitat Autònoma de Barcelona](#)
MEETING PLACE: Barcelona (Spain)
DATE: 04-05/04/2013

50. AUTHORS: M. Rubio-Martínez, J. Puigmartí-Luis, I. Imaz, [D. Maspoch](#)
TITLE: One-dimensional metal-amino acid and metal-peptide nanostructures and their use as templates for inorganic nanoparticle superstructure synthesis
TYPE OF PRESENTATION: Poster
CONGRESS: [Third International Conference on Multifunctional, Hybrid and Nanomaterials](#)
MEETING PLACE: Sorrento (Italy)
DATE: 03-08/03/2013

49. AUTHORS: K. C. Stylianou, C. Carbonell, I. Imaz, [D. Maspoch](#)
TITLE: Controlled growth of Metal-Organic Frameworks on surfaces using Microfluidic-Pen Lithography
TYPE OF PRESENTATION: Poster
CONGRESS: [Third International Conference on Multifunctional, Hybrid and Nanomaterials](#)
MEETING PLACE: Sorrento (Italy)
DATE: 03-08/03/2013

48. AUTHORS: À. Ruyra, M. Cano-Sarabia, S. Mackenzie, [D. Maspoch](#), N. Roher

TITLE: Use of liposomes as immunostimulant encapsulation agents in aquaculture
TYPE OF PRESENTATION: Poster
CONGRESS: [Global Questions on Advance Biology \(Institut d'Estudis Catalans\)](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2012

47. AUTHORS: [D. Maspoch](#)
TITLE: Femtoliter chemistry assisted by microfluidic-pen lithography
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Universidad de Granada](#)
MEETING PLACE: Granada (Spain)
YEAR: 2012

46. AUTHORS: [D. Maspoch](#)
TITLE: Femtoliter chemistry assisted by microfluidic-pen lithography
TYPE OF PRESENTATION: Invited talk
CONGRESS: [40 International Conference in Coordination Chemistry \(ICCC40\)](#)
MEETING PLACE: Valencia (Spain)
YEAR: 2012

45. AUTHORS: A. Carné-Sánchez, I. Imaz, [D. Maspoch](#)
TITLE: Synthesis of new nanoscale MOFs for contrast agent applications
TYPE OF PRESENTATION: Poster
CONGRESS: [3rd International Conference on Metal-Organic Frameworks and Open Framework Compounds \(MOF2012\)](#)
MEETING PLACE: Edinburgh
YEAR: 2012

44. AUTHORS: C. Carbonell-Fernandez, K. Stylianou, I. Imaz, [D. Maspoch](#)
TITLE: Controlling the surface growth of Metal-Organic Frameworks with tip-based nanolithography
TYPE OF PRESENTATION: Poster
CONGRESS: [3rd International Conference on Metal-Organic Frameworks and Open Framework Compounds \(MOF2012\)](#)
MEETING PLACE: Edinburgh
YEAR: 2012

43. AUTHORS: I. Imaz, A. Carné, M. Cano, [D. Maspoch](#)
TITLE: Massive production of nanoMOFs by spray-drying
TYPE OF PRESENTATION: Oral communication
CONGRESS: [3rd International Conference on Metal-Organic Frameworks and Open Framework Compounds \(MOF2012\)](#)
MEETING PLACE: Edinburgh
YEAR: 2012

42. AUTHORS: À. Ruyra, M. Cano, S. Mackenzie, [D. Maspoch](#), N. Roher
TITLE: Use of liposomes as immunostimulant encapsulation agents in aquaculture
TYPE OF PRESENTATION: Poster
CONGRESS: [First Workshop on Nanomedicine UAB - CEI](#)
MEETING PLACE: Barcelona (Spain)

YEAR: 2012

41. AUTHORS: M. Cano-Sarabia, [D. Maspoch](#)
TITLE: Trends in Micro- and Nanoencapsulation Research
TYPE OF PRESENTATION: Invited talk
CONGRESS: [First Workshop on Nanomedicine UAB - CEI](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2012

40. AUTHORS: C. Carbonell, I. Imaz, [D. Maspoch](#)
TITLE: Controlando el crecimiento de cristales de estructuras metalorgánicas (MOFs) sobre superficies mediante la técnica de “Tip-based nanolithography”
TYPE OF PRESENTATION: Oral communication
CONGRESS: [VII Trobada de Joves Investigadors dels Països Catalans](#)
MEETING PLACE: Mallorca (Spain)
YEAR: 2012

39. AUTHORS: A. Carné-Sánchez, I. Imaz, [D. Maspoch](#)
TITLE: Síntesis de nuevos sistemas metalorgánicos nanoscópicos para aplicaciones biomédicas
TYPE OF PRESENTATION: Oral communication
CONGRESS: [VII Trobada de Joves Investigadors dels Països Catalans](#)
MEETING PLACE: Mallorca (Spain)
YEAR: 2012

38. AUTHORS: M. Rubio-Martínez, J. Puigmartí-Luis, I. Imaz, [D. Maspoch](#)
TITLE: Nanoestructuras metal-biomoleculares
TYPE OF PRESENTATION: Oral communication (winning the prize to the best oral communication entitled in the Symposium of Biomolecules, Metal-Biomolecules and Biomimetics)
CONGRESS: [VII Trobada de Joves Investigadors dels Països Catalans](#)
MEETING PLACE: Mallorca (Spain)
YEAR: 2012

37. AUTHORS: [D. Maspoch](#)
TITLE: Micro- & Nanoencapsulation, and their potential use for protecting/delivering phages
TYPE OF PRESENTATION: Oral communication
CONGRESS: [FAGOMA](#)
MEETING PLACE: Oviedo (Spain)
YEAR: 2012

36. AUTHORS: À. Ruyra, I. Solé, I. Imaz, N. Roher, [D. Maspoch](#)
TITLE: Use of liposomes as immunostimulant encapsulation agents in aquaculture
TYPE OF PRESENTATION: Poster
CONGRESS: [Cutting Edge Technologies in Biomedical Research](#)
MEETING PLACE: KIT (Karsruhe Institut for Technology)
YEAR: 2011

35. AUTHORS: [D. Maspoch](#)
TITLE: Functional nanoarrays generated by Tip-based Nanolithography for biology and materials science
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas del Instituto Politécnico Nacional](#)

MEETING PLACE: Mexico DF (Mexico)
YEAR: 2011

34. AUTHORS: [D. Maspoch](#)

TITLE: Functional nanoarrays generated by Tip-based Nanolithography for biology and materials science

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Centro en Nanociencias y Micro y Nanotecnologías del Instituto Politécnico Nacional](#)

MEETING PLACE: Mexico DF (Mexico)

YEAR: 2011

33. AUTHORS: [D. Maspoch](#)

TITLE: Supramolecular Metal-Organic Nanostructures as new Materials for Biomedical Applications

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Hospital Vall d'Hebrón](#)

MEETING PLACE: Barcelona (Spain)

YEAR: 2011

32. AUTHORS: [D. Maspoch](#)

TITLE: Metal-organic nanomaterials

TYPE OF PRESENTATION: Invited talk

CONGRESS: [Universidad Autónoma de Madrid](#)

MEETING PLACE: Madrid (Spain)

YEAR: 2011

31. AUTHORS: [D. Maspoch](#), I. Imaz, C. Carbonell, M. Rubio-Martinez, A. Carné-Sánchez

TITLE: Nanoscale metal-organic materials

TYPE OF PRESENTATION: Invited talk

CONGRESS: [XII Escuela Nacional de Materiales Moleculares](#)

MEETING PLACE: Castellón (Spain)

YEAR: 2011

30. AUTHORS: À. Ruyra, I. Solè, N. Roher, I. Imaz, [D. Maspoch](#)

TITLE: Use of liposomes as immunostimulant encapsulation agents in aquaculture

TYPE OF PRESENTATION: Poster

CONGRESS: [XII Escuela Nacional de Materiales Moleculares](#)

MEETING PLACE: Castellón (Spain)

YEAR: 2011

29. AUTHORS: A. Carné-Sánchez, I. Imaz, [D. Maspoch](#)

TITLE: Hacia nanoestructuras metalorgánicas con propiedades de agentes de contraste

TYPE OF PRESENTATION: Poster

CONGRESS: [XII Escuela Nacional de Materiales Moleculares](#)

MEETING PLACE: Castellón (Spain)

YEAR: 2011

28. AUTHORS: M. Rubio-Martínez, I. Imaz, [D. Maspoch](#)

TITLE: Nanoestructuras metal-biomoleculares

TYPE OF PRESENTATION: Poster

CONGRESS: [XII Escuela Nacional de Materiales Moleculares](#)

MEETING PLACE: Castellón (Spain)

YEAR: 2011

27. AUTHORS: J. A. Asensio, I. Imaz, [D. Maspoch](#)
TITLE: Sistemas de encapsulación con aplicaciones en nutrición
TYPE OF PRESENTATION: Invited talk
CONGRESS: [LUCTA, S.A.](#)
MEETING PLACE: Montornés del Vallès (Spain)
YEAR: 2010

26. AUTHORS: J. A. Asensio, I. Imaz, [D. Maspoch](#)
TITLE: Solucions Industrials de Micro i Nanoencapsulació per a Medicina i Farmàcia, Cosmètica, Detergents, Alimentació, Agroquímica, Tèxtil, etc.
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Encapsulation Technologies Conference](#)
MEETING PLACE: Parc Tecnològic del Vallès, Cerdanyola del Vallès (Spain)
YEAR: 2010

25. AUTHORS: M. Rubio-Martínez, A. Carné, I. Imaz, [D. Maspoch](#)
TITLE: Metal-organic hybrid materials: from design to applications
TYPE OF PRESENTATION: Poster
CONGRESS: [IV Jornada AIN. Aplicaciones Industriales de la Nanotecnología](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2010

24. AUTHORS: M. González-Gómez, J. A. Asensio, I. Imaz, [D. Maspoch](#)
TITLE: Micro- and nanoencapsulation: solutions for industrial applications
TYPE OF PRESENTATION: Poster
CONGRESS: [IV Jornada AIN. Aplicaciones Industriales de la Nanotecnología](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2010

23. AUTHORS: I. Imaz, [D. Maspoch](#)
TITLE: Nanostructured metal-organic materials
TYPE OF PRESENTATION: Invited talk
CONGRESS: [Universidad del País Vasco \(UPV\)](#)
MEETING PLACE: San Sebastián (Spain)
YEAR: 2009

22. AUTHORS: M. Rubio, I. Imaz, J. Hernando, D. Ruiz-Molina, [D. Maspoch](#)
TITLE: Metal-organic spheres as new functional micro- and nanomaterials for encapsulation
TYPE OF PRESENTATION: Poster
CONGRESS: [Nanospain 2009](#)
MEETING PLACE: Zaragoza (Spain)
YEAR: 2009

21. AUTHORS: [D. Maspoch](#)
TITLE: DPN-based Projects at the Institut Català de Nanotecnologia
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [NanoInk. Inc. \(Invited Conference\)](#)
MEETING PLACE: Chicago (United States of America)
YEAR: 2009

20. AUTHORS: [D. Maspoch](#), E. Bellido, D. Ruiz-Molina, R. De Miguel Viscasillas, A. Lostao

TITLE: Single-Protein Control on NanoArrays Generated by Dip-Pen Nanolithography
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Nanotech 2009](#)
MEETING PLACE: Houston (United States of America)
YEAR: 2009

19. AUTHORS: [D. Maspoch](#), E. Bellido, D. Ruiz-Molina, R. De Miguel Viscasillas, A. Lostao
TITLE: Magnetic ferritin, Mn₁₂ and nanoparticle nanoarrays fabricated by Dip-Pen Nanolithography
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [MAGMANet Workshop "Towards devices: assembling and addressing molecular nanomagnets"](#)
MEETING PLACE: Huesca (Spain)
YEAR: 2008

18. AUTHORS: C. Carbonell, D. Ruiz-Molina, [D. Maspoch](#)
TITLE: 2D Parallel Dip-Pen Nanolithography
TYPE OF PRESENTATION: Poster
CONGRESS: [Second Spanish Workshop on Nanolithography and their applications](#)
MEETING PLACE: Bellaterra (Spain)
YEAR: 2008

17. AUTHORS: E. Bellido, R. de Miguel Viscasillas, A. Lostao, F. Luis, D. Ruiz-Molina, [D. Maspoch](#)
TITLE: Controlling the Number of Protein Entities Written by Dip-Pen Nanolithography
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Second Spanish Workshop on Nanolithography and their applications](#)
MEETING PLACE: Bellaterra (Spain)
YEAR: 2008

16. AUTHORS: [D. Maspoch](#), A. Martínez, E. Bellido, C. Carbonell, D. Ruiz-Molina
TITLE: Dip-Pen Nanolithography
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Second Spanish Workshop on Nanolithography and their applications](#)
MEETING PLACE: Bellaterra (Spain)
YEAR: 2008

15. AUTHORS: C. Carbonera, I. Imaz, D. Ruiz-Molina, [D. Maspoch](#), F. Luis
TITLE: Fabrication of nanospheres from Mn₁₂ acetate SMM: do the chemical properties of the original cluster show changes?
TYPE OF PRESENTATION: Poster
CONGRESS: [Nanospain 2008](#)
MEETING PLACE: Braga (Portugal)
YEAR: 2008

14. AUTHORS: I. Imaz, J. Hernando, D. Ruiz-Molina, [D. Maspoch](#)
TITLE: Metal-organic nanospheres
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Nanospain 2008](#)
MEETING PLACE: Braga (Portugal)
YEAR: 2008

13. AUTHORS: [D. Maspoch](#), E. Bellido, A. Martínez, C. Carbonell, A. I. Lostao, F. Luis, D. Ruiz-Molina
TITLE: Dip-Pen Nanolithography: writing molecules. biological entities and nanomaterials at the nanometer scale
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Nanospain 2008](#)
MEETING PLACE: Braga (Portugal)
YEAR: 2008
12. AUTHORS: [D. Maspoch](#)
TITLE: Dip-Pen Nanolithography: a general view of a direct-writing technique
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Instituto de Nanociencia de Aragón. Invited Conference](#)
MEETING PLACE: Zaragoza (Spain)
YEAR: 2007
11. AUTHORS: [D. Maspoch](#)
TITLE: Dip-Pen Nanolithography, com escriure molècules a escala nanoscòpica
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Universitat de Girona \(UdG\). Invited Conference](#)
MEETING PLACE: Girona (Spain)
YEAR: 2007
10. AUTHORS: [D. Maspoch](#)
TITLE: Dip-Pen Nanolithography: a direct-write technique on the sub-100 nm length scale
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [First Spanish Workshop on Nanolithography and their applications](#)
MEETING PLACE: Zaragoza (Spain)
YEAR: 2007
9. AUTHORS: [D. Maspoch](#)
TITLE: “Dip-Pen Nanolithography”: una herramienta para escribir con resolución nanoscópica
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [Jornada de Microscopia de Proximidad](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2007
8. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina
TITLE: “Dip-Pen Nanolithography”: una herramienta para escribir con resolución nanoscópica
TYPE OF PRESENTATION: Poster
CONGRESS: [Jornadas de Microscopia Sonda Local](#)
MEETING PLACE: Zaragoza (Spain)
YEAR: 2006
7. AUTHORS: [D. Maspoch](#)
TITLE: Dip-Pen Nanolithography”: una herramienta para escribir con resolución nanoscópica
TYPE OF PRESENTATION: Poster
CONGRESS: [Jornada de Nanofabricación](#)
MEETING PLACE: Barcelona (Spain)
YEAR: 2006
6. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, N. Domingo, K. Wurst, J. Tejada, C. Rovira, J. Veciana

TITLE: A Nanoporous Molecular Sponge-like Magnet
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [E-MRS 2003](#)
MEETING PLACE: Strasbourg (France)
YEAR: 2003

5. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana
TITLE: Substituted polychlorotriphenylmethyl radicals as new ligands for the development of multifunctional molecular materials
TYPE OF PRESENTATION: Poster
CONGRESS: [VIII International Conference on Molecule-Based Magnets](#)
MEETING PLACE: Valencia (Spain)
YEAR: 2002

4. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, N. Domingo, K. Wurst, J. Tejada, C. Rovira, J. Veciana
TITLE: Magnetic properties of a new type of nanoporous materials based on perchlorotriphenylmethyl radicals and metal ions
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [International Conference on Science and Technology of Synthetic Metals](#)
MEETING PLACE: Shangai (China)
YEAR: 2002

3. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, N. Domingo, K. Wurst, J. Tejada, C. Rovira, J. Veciana
TITLE: Magnetic nanoporous metal-radical frameworks
TYPE OF PRESENTATION: Poster
CONGRESS: [Synthetic Approaches to Molecular Magnets, Chemical Tools and New Trends](#)
MEETING PLACE: Paris (France)
YEAR: 2002

2. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana
TITLE: Radicales policlorotrifenilmetílicos funcionalizados como nuevos ligandos para la formación de complejos magnéticos
TYPE OF PRESENTATION: Oral presentation
CONGRESS: [V Escuela Nacional de Materiales Moleculares](#)
MEETING PLACE: Peñíscola (Spain)
YEAR: 2001

1. AUTHORS: [D. Maspoch](#), D. Ruiz-Molina, K. Wurst, C. Rovira, J. Veciana
TITLE: Funcionalized polychlorotriphenylmethyl radicals as new ligands for heterospin magnetic complexes
TYPE OF PRESENTATION: Oral presentation & Poster
CONGRESS: [Molecular Magnets. European Science Foundation](#)
MEETING PLACE: Davos (Switzerland)
YEAR: 2011

Thesis Supervised

34. THESIS DIRECTOR(S): Prof. Daniel Maspoch
TITLE: Implementation of new cleavage chemistries in the Clip-off Chemistry concept.
ESTIMATED DISSERTATION DEFENCE DATE: 2029
STUDENT: Olga Griaznova
INSTITUTION OF DEFENCE: ICN2 (UAB)
33. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Synthesis of macrocycles via excision of COFs.
ESTIMATED DISSERTATION DEFENCE DATE: 2028
STUDENT: Chuanqi Miao
INSTITUTION OF DEFENCE: ICN2 (UAB)
32. THESIS DIRECTOR(S): Dr. Arnau Carné, Prof. Daniel Maspoch
TITLE: Functional aerogels made of molecular cages.
ESTIMATED DISSERTATION DEFENCE DATE: 2028
STUDENT: Chen Fang
INSTITUTION OF DEFENCE: ICN2 (UAB)
31. THESIS DIRECTOR(S): Dr. Arnau Carné, Prof. Daniel Maspoch
TITLE: Design and synthesis of new functional materials made of DNA and molecular cages.
ESTIMATED DISSERTATION DEFENCE DATE: 2028
STUDENT: Caterina Caules
INSTITUTION OF DEFENCE: ICN2 (UAB)
30. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Assembly of metal-organic framework particles into novel materials.
ESTIMATED DISSERTATION DEFENCE DATE: 2027
STUDENT: Amir Ghadiri
INSTITUTION OF DEFENCE: ICN2 (UAB)
29. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Pore generation in reticular materials via clip-off chemistry.
ESTIMATED DISSERTATION DEFENCE DATE: 2026
STUDENT: Pilar Fernández
INSTITUTION OF DEFENCE: ICN2 (UAB)
28. THESIS DIRECTOR(S): Prof. Daniel Maspoch
TITLE: Synthesis of Multifunctional porous MOF composites.
ESTIMATED DISSERTATION DEFENCE DATE: 2026
STUDENT: Gerard Pena
INSTITUTION OF DEFENCE: ICN2 (UAB)
27. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Metal-organic cages in Clip-off Chemistry
ESTIMATED DISSERTATION DEFENCE DATE: 2026
STUDENT: Sara Ruiz
INSTITUTION OF DEFENCE: ICN2 (UAB)
26. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Synthesis of organic systems using Clip-off Chemistry

ESTIMATED DISSERTATION DEFENCE DATE: 2026
STUDENT: Juan Pablo Cavalieri
INSTITUTION OF DEFENCE: ICN2 (UAB)/RMIT

25. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: The assembly of metal-organic framework particles into photonic supercrystals
ESTIMATED DISSERTATION DEFENCE DATE: 2025
STUDENT: Lingxin Meng
INSTITUTION OF DEFENCE: ICN2 / CSC

24. THESIS DIRECTOR(S): Dr. Arnau Carné, Prof. Daniel Maspoch
TITLE: Synthesis and characterization of giant porous molecules
DISSERTATION DEFENCE DATE: 31/10/2025
STUDENT: Alba Cortés
INSTITUTION OF DEFENCE: ICN2 (UAB)

23. THESIS DIRECTOR(S): Dr. Arnau Carné, Prof. Daniel Maspoch
TITLE: Metal-Organic Polyhedra as building blocks for the generation of porous networks.
DISSERTATION DEFENCE DATE: 13/11/2024
STUDENT: Akim Khobotov, FPI Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

22. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Top-Down approaches for the de-reticulation and synthesis of metal-organic frameworks
DISSERTATION DEFENCE DATE: 23/02/2024
STUDENT: Borja Ortín - “Premi Extraordinari de Doctorat en Química, UAB, 2023-2024”
INSTITUTION OF DEFENCE: ICN2 (UAB)

21. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Clip-off Chemistry in three-dimensional metal-organic frameworks
DISSERTATION DEFENCE DATE: 14/12/2023
STUDENT: Yunhui Yang - “Premi Extraordinari de Doctorat en Química, UAB, 2023-2024”
INSTITUTION OF DEFENCE: ICN2 / CSC

20. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Clip-off Chemistry applied to the synthesis of Rh(II)-based complexes via rational cleavage of metal-organic-polyhedra
DISSERTATION DEFENCE DATE: 10/10/2023
STUDENT: Anna Broto - *Best Thesis Award Women Talent Programme ICN2 2023* - “Premi Extraordinari de Doctorat en Química, UAB, 2023-2024”
INSTITUTION OF DEFENCE: ICN2 (UAB)

19. THESIS DIRECTOR(S): Dr. Arnau Carné, Prof. Daniel Maspoch
TITLE: Surface Chemistry on Metal-Organic Polyhedra
DISSERTATION DEFENCE DATE: 15/09/2023
STUDENT: Laura Hernández, FPI-SO Fellow - “Premi Extraordinari de Doctorat en Química, UAB, 2022-2023”
INSTITUTION OF DEFENCE: ICN2 (UAB)

18. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Self-Assembly of colloidal Metal-Organic Framework particles into multidimensional superstructures
DISSERTATION DEFENCE DATE: 21/06/2022

STUDENT: Yang Liu
INSTITUTION OF DEFENCE: ICN2 / CSC

17. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Multifunctional composites made of metal-organic frameworks and inorganic nanoparticles
DISSERTATION DEFENCE DATE: 25/01/2022
STUDENT: Gerard Boix i Soler - "Premi Extraordinari de Doctorat en Química, UAB, 2021-2022"
INSTITUTION OF DEFENCE: ICN2 (UAB)

16. THESIS DIRECTOR(S): Dra. Encarna García Montoya, Prof. Daniel Maspoch
TITLE: Design, characterization and optimization of a novel liposomal based food supplement against chronic fatigue syndrome.
DISSERTATION DEFENCE DATE: 20/10/2020
STUDENT: Marta Ruiz - *Best Thesis Award Women Talent Programme ICN2 2021*
INSTITUTION OF DEFENCE: ICN2 (UB)

15. THESIS DIRECTOR(S): Dr. Arnau Carné, Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Post-synthetic modification of metal-organic frameworks (MOFs) and polyhedra (MOPs)
DISSERTATION DEFENCE DATE: 17/12/2019
STUDENT: Jorge Albalad, FI Fellow - "Premi Extraordinari de Doctorat en Química, UAB, 2019-2020"
INSTITUTION OF DEFENCE: ICN2 (UAB)

14. THESIS DIRECTOR(S): Prof. Laura Lechuga, Prof. Daniel Maspoch
TITLE: Development of bimodal waveguide interferometric sensors for environmental monitoring
DISSERTATION DEFENCE DATE: 10/07/2019
STUDENT: Blanca Chocarro, FPI-SO Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

13. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Post-synthetic modifications of metal-organic-frameworks by solid-gas ozonolysis
DISSERTATION DEFENCE DATE: 26/04/2019
STUDENT: Heng Xu. FI Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

12. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Advances on the synthesis of metal-organic frameworks at scale
DISSERTATION DEFENCE DATE: 20/02/2019
STUDENT: Ceren Avci - "Premi Extraordinari de Doctorat en Ciència dels Materials, UAB, 2018-2019" and *Best Thesis Award Women Talent Programme ICN2 2020*
INSTITUTION OF DEFENCE: ICN2 (UAB)

11. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Zeolitic imidazolate framework-8: control of particle size, and shape and its self-assembly
DISSERTATION DEFENCE DATE: 19/12/2018
STUDENT: Civan Avci - "Premi Extraordinari de Doctorat en Ciència dels Materials, UAB, 2018-2019"
INSTITUTION OF DEFENCE: ICN2 (UAB)

10. THESIS DIRECTOR(S): Prof. Victor Puentes, Prof. Daniel Maspoch
TITLE: Nanoengineering composites made of metal- and covalent-organic frameworks and inorganic nanoparticles using encapsulation techniques
DISSERTATION DEFENCE DATE: 30/11/2018

STUDENT: Amirali Yazdi, FPI-SO Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

9. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: The photothermal effect in MOFs
DISSERTATION DEFENCE DATE: 26/10/2018
STUDENT: Jordi Espín Martí, FPI Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

8. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Confining reactions in a droplet: synthesis of MOFs, COFs and composites using spray drying
DISSERTATION DEFENCE DATE: 19/07/2018
STUDENT: Luis Carlos Garzón Tovar – “Premi Extraordinari de Doctorat en Química, UAB, 2017-2018”
INSTITUTION OF DEFENCE: ICN2 (UAB)

7. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Janus-type and molecular MOF-based composites
DISSERTATION DEFENCE DATE: 15/12/2017
STUDENT: Abraham Ayala Hernández, CONACYT Fellow (Mexico)
INSTITUTION OF DEFENCE: ICN2 (UAB)

6. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Metal-organic frameworks made of amino acids and adenine: chirality and hydrochromism
DISSERTATION DEFENCE DATE: 29/09/2017
STUDENT: Iván Patricio Burneo Saavedra, SENESCYT Fellow (Ecuador)
INSTITUTION OF DEFENCE: ICN2 (UAB)

5. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: Design and synthesis of submicron diagnostic systems based on coordination polymers
DISSERTATION DEFENCE DATE: 03/11/2016
STUDENT: Javier Ariñez Soriano, FPU Fellow
INSTITUTION OF DEFENCE: ICN2 (UAB)

4. THESIS DIRECTOR(S): Prof. Daniel Maspoch
TITLE: Surface structuration of metal-organic frameworks using tip-based lithographies
DISSERTATION DEFENCE DATE: 12/2014
STUDENT: Carlos Carbonell Fernández
INSTITUTION OF DEFENCE: ICN2 (UAB)

3. THESIS DIRECTOR(S): Dr. Nerea Roher, Prof. Daniel Maspoch
TITLE: Liposomes as immunostimulant delivery nanosystems. Characterization and application in zebrafish (*Danio rerio*) and rainbow trout (*Oncorhynchus mykiss*)
DISSERTATION DEFENCE DATE: 11/2014
STUDENT: Àngels Ruyra Ripoll
INSTITUTION OF DEFENCE: ICN2 (UAB)

2. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch
TITLE: A new synthetic method for nanoscale metal-organic frameworks and their application as contrast agents for magnetic resonance imaging
DISSERTATION DEFENCE DATE: 10/2014
STUDENT: Arnau Carné Sánchez, FI Fellow

INSTITUTION OF DEFENCE: ICN2 (UAB)

1. THESIS DIRECTOR(S): Dr. Inhar Imaz, Prof. Daniel Maspoch

TITLE: Nanoscale metal-biomolecule materials

DISSERTATION DEFENCE DATE: 06/2014

STUDENT: Marta Rubio Martínez, ICN Fellow

INSTITUTION OF DEFENCE: ICN2 (UAB)

Masters Supervised

12. TITLE: Rhodium-based metallocycles: insights into structural variability

PHD STUDENT: Caterina Caules

UNIVERSITY / INSTITUTION: UAB

YEAR: 2023-2024

MARK: 9.5/10

11. TITLE: Synthesis of mesoporous Rh(II)-based metal-organic polyhedra

PHD STUDENT: Sara Ruíz

UNIVERSITY / INSTITUTION: UB

YEAR: 2021-2022

MARK: 8.9/10

10. TITLE: Industrial chemistry and introduction to chemical research

PHD STUDENT: Alba Cortés

UNIVERSITY / INSTITUTION: UAB

YEAR: 2020-2021

MARK: 8,8/10

9. TITLE: Postsynthetic selective ligand cleavage by solid-gas phase ozonolysis in metal-organic frameworks

PHD STUDENT: Asier Rodríguez Muguruza

UNIVERSITY / INSTITUTION: BIST

YEAR: 2018-2019

MARK: 8,9/10

8. TITLE: Phase transfer of Rhodium(II)-based metal-organic polyhedra bearing coordinatively bounded cargoes

PHD STUDENT: Laura Hernández

UNIVERSITY / INSTITUTION: UB

YEAR: 2018-2019

MARK: 9,5/10

7. TITLE: Synthesis of novel internally functionalized metal-organic polyhedra

PHD STUDENT: Cristina Ruíz

UNIVERSITY / INSTITUTION: UAB

YEAR: 2017-2018

MARK: 9/10

6. TITLE: Synthesis and characterization of macrocyclic based metal-organic frameworks (MOFs) and their potential application as MRI contrast agents

PHD STUDENT: Jorge Albalad

UNIVERSITY / INSTITUTION: UAB

YEAR: 2014-2015

MARK: 9,9/10

5. TITLE: Encapsulation of bacteriophages in lipidic micro- and nanocapsules for the treatment of Salmonellosis in farm animals

PHD STUDENT: Agnese Ciardi

UNIVERSITY / INSTITUTION: Università degli Studi di Siena
YEAR: 2011-2012
MARK: 10/10

4. TITLE: Cytotoxicity studies of nanoscale metal-organic frameworks
PHD STUDENT: Amirali Yazdi
UNIVERSITY / INSTITUTION: UAB
YEAR: 2011-2012
MARK: 8,5/10

3. TITLE: Encapsulation of phages for the oral treatment of *Salmonella* in animals
PHD STUDENT: Javier Aríñez Soriano
UNIVERSITY / INSTITUTION: UAB
YEAR: 2010-2011
MARK: 9,5/10

2. TITLE: Materiales metal-bioorgánicos
PHD STUDENT: Marta Rubio Martínez
UNIVERSITY / INSTITUTION: UAB
YEAR: 2009-2010
MARK: 9/10

1. TITLE: Nanolitografía de Dip-Pen en paralelo bidimensional
PHD STUDENT: Carlos Carbonell Fernández
UNIVERSITY / INSTITUTION: UAB
YEAR: 2008-2009
MARK: 9/10

Congress organizer

7. CONGRESS: [How will Reticular Chemistry Evolve in the next 10 years? Future Directions in Reticular Chemistry – a Retreat](#). Co-organized with Prof. Omar M. Yaghi and Prof. Jorge Navarro.

MEETING PLACE: Granada, Spain

DATE: 18-19/09/2025

6. CONGRESS: [5th European Conference on Metal Organic Frameworks and Porous Polymers \(EuroMOF2023\)](#).

MEETING PLACE: Granada, Spain

DATE: 24-27/09/2023

5. CONGRESS: [XXXVII Reunión Bienal de la Real Sociedad Española de Química Symposium 16: Metal-Organic Frameworks & Covalent Organic Frameworks](#)

MEETING PLACE: San Sebastián, Basque Country, Spain

DATE: 28-29/05/2019

4. CONGRESS: [ICCC2018](#)

[Symposium 22. MOFs as Scaffolds for Nanomaterials Synthesis and Encapsulation](#)

MEETING PLACE: Sendai (Japan)

DATE: 28/07/2018-04/08/2018

3. CONGRESS: [XXXVI Reunión Bienal de la Real Sociedad Española de Química Symposium 24. Metal-Organic \(MOFs\) and Covalent Organic Frameworks \(COFs\)](#)

MEETING PLACE: Sitges (Spain)

DATE: 25-29/06/2017

2. CONGRESS: [Young Investigator EuroMOF Symposium](#)

MEETING PLACE: Berlin (Germany)

DATE: 8-14/10/2015

1. CONGRESS: [1er Simposio sobre propiedades y aplicaciones de MOFs y COFs](#)

MEETING PLACE: Granada (Spain)

DATE: 9-10/04/2015

Awards

- 2025, Scientific Excellence Award by the SCQ.
- 2024, Hermanos Elhuyar Hans Goldschmidt Lecture by the German Chemical Society (GDCh).
- 2023, Nuevas Tecnologías de los Premios Rei Jaume I.
- 2022, Académico Correspondiente de la Corporación en la Sección de Ciencias Físicas y Químicas, en la especialidad de Ciencia de Materiales de la Real Academia de Ciencias Exactas, Físicas y Naturales de España.
- 2020, Research Excellence Award by the RSEQ.
- 2015, III Premio Marcial Moreno-Mañas Lectureship.

Outreach Activities (2011-2025)

Communication of science to the public: activities performed by the group to create awareness among the general public about the research work performed and its implications for citizens.

- 2024, Participation in the round table: *How ICN2 is solving societal challenges through nonoscience*, of the [10th Years Celebration](#) (ICN2), with Pere Estupinyà (moderator), Carolina Aguilar (CEO of INBRAIN), Montserrat Vendrell (Co-funder and Partner of ALIATH and Pablo Pomposiello (Head of Business & Innovation at ICN2).
- 2023, Participation in the round table: *Promoting career development for female researchers: What strategies work and what can be improved?* of the [International Women's Day Celebration](#) (ICN2), with Fanny Baumann (moderator), Dr Noemí Contreras Pereda, Dr Ting Zhang, and three more researchers: Dr Mary Cano Sarabia, Dr Juan Sierra García, and Dr Alejandro Gómez Roca.
- 2015, Participation in the inaugural event of the Barcelona's [NOVUM Science Festival](#)
- 2014, Participation in the First CERCA Conference, which aims to raise awareness about the research activity at CERCA institutes, <http://cerca.cat/en/cerca-conference-2014/>
- 2014, Interview in the Newspaper "El Mundo" ([link](#))
- 2012, Participation in the Spanish TV show "Informe Semanal": Chapter "Ciencia para el siglo XXI".
- 2011, Participation in the video prepared by "La Obra Social de la Caixa" for the dissemination of the project funded by Recercaixa entitled "Food Security: development of novel technologies based on bacteriophages for salmonella control".
- 2010, Group website development (visit www.nanoup.org).
- Participation in different events in a national level: "Saló de l'Ensenyament" 2011 and 2012; "Professors i Ciència" 2012 and 2013; "Festa de la Ciència" 2011 and 2013; "Jornada CDEC Professors 2012; "Dimensió Nano – Exposició de Nanociència i Nanotecnologia" mNACTEC june 2012 - december 2013; ICN2 Open-Day 2013.

Introduction of students to science, research and innovation: activities performed by the group to encourage and motivate students to pursue careers in science.

- 2022: my research group participates in workshops on the secondary schools Barcelona surroundings area.
- 2022: my research group participates in the Science Week in the primary schools Barcelona surroundings area.
- From 2010 to present: the group offers summer stays (July – September) to BSc students.
- From 2011 to 2017: my research group participates in the program "Jóvenes y Ciencia" (Catalunya Caixa; jovesiciencia.caixacatalunya.es), whereby secondary school students join research groups for some weeks.
- 2010-2011 and 2018: my research group participates in the program "ESCOLAB" (www.escolab.cat) organized by L'Ajuntament de Barcelona, as an approach between secondary school students and R&D.
- From 2008 to 2012: Prof Daniel Maspoch has been teaching and student assessor in the Master of Nanotechnology offered by the UAB.