

MASTER EN QUÍMICA DE MATERIALES APLICADA

Trabajo Final de Máster: Julio 2022

- Alonso González, Pablo (*Tutor*: P. Gámez, QI)
“Triazine-based Polypyridine Ru(II) Complexes as Potential Photodynamic Therapy Agents”
- Analuiza Vergara, César Patricio (*Tutora*: I. Angurell, QI)
“Synthesis of Gold(I) Alkynyl Complexes based on Triphenylene Derivative Ligands”
- Balsells Vives, Marc (*Tutora*: G. Gabriel, IMB-CNM)
“Gold Nanoparticles Dispersion formulated into Inkjet Ink: Development and Characterization”
- Beltrán Sánchez, Laura (*Tutores*: G. Bataglia y M. Kumar, IBEC)
“Synthesis and Self-assembly of Minimalistic Lipid Peptide”
- Caballero Gutiérrez, Sergio (*Tutora*: J. Mayans, QI)
“A Family of Tetranuclear Double-stranded Cu^{II}-Ln^{III} Helicates. Structural and Magnetic Study”
- Capó Serrano, Nuria (*Tutora*: L. A. Barrios, QI)
“Design and Synthesis of Multifunctional Heteroleptic Systems of Fe(II) and Co(II)”
- Cardona Olives, Joan (*Tutor*: J. Jover, QI)
“Computational Construction of S_N2 Reaction Database: Barrier Modelling and Statistical Analysis”
- Carmona Ruiz, Marina (*Tutoras*: Alisiya B. Tahchieva y Nuria Llorca, CEM)
“Superhydrophobic Cotton for the Removal of Microplastics in Aqueous Solution”
- Cuesta Troyano, Alejandro (*Tutora*: E. C. Sañudo, QI)
“Synthesis and Structural Study of 1-D and 2-D Lanthanide Complex”
- de la Rosa de Frutos, Sara (*Tutor*: P. Ll. Cabot, QF)
“Fe-N_x/C Catalysts for the Oxygen Reduction Reaction Prepared with Precursors Obtained from Biological Sources”
- de Paz Castany, Roger (*Tutora*: M. Estrader, QI)
“Bi-magnetic Core@shell CoFe₂O₄@NiO Nanoparticles for Room Temperature Magnetic Properties Modulation”
- del Moral González, Maria (*Tutor*: S. Muro, IBEC)
“Analysis of Different PLGA Copolymers Nanoparticles for Lysosomal Enzyme Release”
- Domínguez Hervella, Eva (*Tutora*: M. Coll, ICMAB)
“Atomic Layer Deposition of All-oxide Heterostructures for Unconventional Photovoltaics”
- González Romero, Carlos (*Tutores*: M. Estrader, QI y A. Gómez, ICN2)
“Multifunctional Magneto-optical Nanostructures for Biosensing and Theranostic Applications”
- Llauradó-Capdevila, Gemma (*Tutor*: J. Puigmartí-Luis, QF)
“Confined Synthesis of Functional Matter and its Effects on Morphogenesis”

- Luque Rueda, Jorge (*Tutor*: P. Ll. Cabot, QF)
“Structural and Electrochemical Characterization of Carbon-Supported PtNi Alloys as Electrocatalysts for Reactions”
- Marco Gibert, Josep (*Tutores*: N. Homs y X. Vendrell, QI)
“Approach to the Hydrothermal Synthesis of MXenes”
- Márquez González, Santiago (*Tutor*: M. Torrell, IREC)
“Advanced Manufacturing of New High Temperature Ceramic for Solid Oxide Cells (SOCs) Applications”
- Martínez-Segura, Albert (*Tutores*: A. Grabulosa y J. Granell, QI)
“Cyclometallated Ruthenium(II) Complexes for Transfer Hydrogenation of Ketones”
- Martínez Medina, Yaiza (*Tutor*: A. Grabulosa, QI)
“Rhodium(I) Complexes with *P*-Stereogenic, Methylene-Bridged Diphosphanes as Hydrogenation Catalysts”
- Mena Barrientos, Yago (*Tutor*: J. Rubio, QF)
“Uncover the Biological Activity of Dark Chemical Matter as SARS-CoV-2 Inhibitors”
- Morales Pérez, Roger (*Tutor*: A. Figuerola, QI)
“Synthesis and Characterization of Nanostructured Bi₂S₃ and Derivative Ternary Compounds by Colloidal Methods”
- Real Vives, Marta (*Tutor*: J. Albert, QI)
“Three Component One Pot Synthesis of Imine Cyclopalladated Compounds”
- Ruiz Relaño, Sara (*Tutores*: A. Carné y D. MasPOCH, ICN2)
“Synthetic Strategy for Multicomponent Metal-Organic Polyhedra”
- Sanahuja Rosich, Èric (*Tutor*: J. Formosa, CEM)
“Optimization and Synthesis of Synthetic Ettringite”
- Sánchez Ruiz, Adrià (*Tutoras*: P. Ramírez de la Piscina y M. L. Mestres, QI)
“Preparació de Catalitzadors basats en MXens per a la Reacció Inversa de Desplaçament de Vapor d’Aigua”
- Sanz Mir, Martí (*Tutor*: J. Puigmartí-Luis, QF)
“Crystallization of Peptide-based MOFs Gels controlling the Diffusion of Solvents across PDMS Membranes”
- Surós Roman, Marc (*Tutoras*: N. Aliaga-Alcalde y A. González-Campo, ICMAB)
“Synthesis, Characterization and Exfoliation Optimization of Curcuminoid-Based 2D Layered Materials for Potential Microdevice Applications”
- Torres Andreo, Carla (*Tutora*: M. I. Giannotti, IBEC)
“Synthesis and Study of Lipid Membranes with High Concentration of Glycosphingolipids”
- Valverde Sanchís, Aïda (*Tutor*: E. Ruiz, QI)
“Ionic 2D Materials: Synthesis and Characterization”
- Velikov, Dean Ivanov (*Tutora*: N. Llorca, CEM)
“Magnetic Copper Ferrite Particles for Microplastic Removal from Water”