

# **MASTER OF APPLIED MATERIALS CHEMISTRY**

*Master's Thesis: July 2021*

- Alvarez Coscojuela, Adrián (*Supervisor: P. Gámez, QI*)  
"Synthesis of potential Anticancer Ruthenium(II) Complexes with Photochemical Properties"
- Brau Viudez, Nuria (*Supervisor: C. Ayats, Leitat*)  
"Synthesis of Nanoparticles in Continuous Flow"
- Eusamio Rodríguez, Javier (*Supervisor: A. Grabulosa, QI*)  
"Complexation and Catalytic Asymmetric Hydrogenation with Unsymmetrical Methylene-bridged *P*-stereogenic Diphosphines"
- Ferran Sánchez, Arnau (*Supervisor: R. Vicente, QI*)  
"Bifunctional Neodymium(III) Compounds Synthesized from  $\beta$ -diketonates and N,N-ligands"
- González Sánchez, Jonay (*Supervisor: E. C. Sañudo, QI*)  
"Synthesis of Ln-carboxylato 2D Metal-organic Frameworks and Analysis of their Exfoliation"
- Muradas Belinchón, David (*Supervisor: S. Terzo, IFAE*)  
"Graphene-based detectors for Minimum Ionizing Particles"
- Ochoa Freire, Gladys (*Supervisors: R. M. González and S. Martínez, Leitat*)  
"Nanocellulose based Materials for Cosmetic Applications"
- Porteiro Figueiras, Maria (*Supervisor: S. Sánchez, IBEC*)  
"*In Vitro* Studies of Urease-powered Nanomotors as Potential Drug Delivery Systems against Bladder Cancer"
- Roca Busacker, Joan (*Supervisors: P. Martínez and N. Homs, QI*)  
"Study of Molybdenum Carbide Supported on ZnO-ZrO<sub>2</sub>-Ga<sub>2</sub>O<sub>3</sub>-based Catalysts for CO<sub>2</sub> Hydrogenation"
- Serra Rada, Joaquim (*Supervisor: M. Martínez, CEM*)  
"Study of Plastic Degradation and Characterisation of Plastic Waste in High Mountain. LCA of Single-use Plastic Object in Mountain Activities"
- Temprano Pérez, Andrés (*Supervisor: P. L. Cabot, QF*)  
"*Carbon-supported PtNi Core-shell Nanoparticles for Low Temperature Fuel Cells: Synthesis, Characterization, and Electrochemical Performance*"
- Vilella Piqué, Lluís (*Supervisor: X. Vendrell, UPC*)  
"Tailoring the Functional Properties and Microstructure of BaTiO<sub>3</sub> with Flash Sintering"