

Final TFG. Semestre de tardor. Curs 2023-24

		Alumne
1. New materials		
1.1	Microfluidic synthesis of 3D covalent organic frameworks (COFs) (resum)	Adell Roca, Miquel
1.2	Development of microcapsules with thermal, mechanical and chemical resistance from plastic waste to contain MPCM (resum)	Baltykova, Altana
1.3	Amphiphilic compounds and their role in biomineralization. (resum)	Calderon Miranda, Elena
1.4	Fabrication and characterization of clot-in-chip platforms (resum)	Cornejo Paredes, Marco
1.5	Synthesis of expanded perovskites with controllable electrical doping (resum)	Espuch Escobar, Miquel
1.6	Synthesis of single-crystals of quasi-2D perovskites for light-absorbing applications (resum)	Mediavilla Pina, Miquel
1.7	Low-cyanide electrolyte for AuCu alloy electrodeposition. (resum)	Sebastià Castarlenas, Enric
2. Food and health		
2.1	Characterization and authentication of meat and meat products using chromatographic metabolomic fingerprints (resum)	Aijon Xalmet, Nil

2.2	Combination of optical and electrochemical methods for the resolution of pharmaceutical formulations (resum)	Baun Carazo, Pol
2.3	Interactions between drugs and biliary salts micelles present in intestinal fluids (resum)	Cabañas Castaño, Ruben
2.4	Design of sensors and preconcentration strategies for the electroanalytical determination of pharmaceuticals (resum)	García Arnan, Xènia
2.5	Gradient elution HPLC/UV method for the determination of sweeteners in soft drinks. (resum) (dipòsit)	Huetto Gual, Joel
2.6	Voltammetric analysis of bioactive compounds in food samples (resum)	Roca Aracil, Marc
3. Environment		
3.1	Photocatalytic Removal of Emerging Organic Pollutants in Water (resum) (dipòsit)	Bautista Rosas, Queralt Lu
3.2	Physicochemical characterization of wastes: providing proficiency testing according ISO 17043. (resum)	Blasco Villegas, Carla
3.3	Simultaneous analysis of plutonium isotopes and ⁹⁰ Sr with fluorescent polymers in tandem. (resum)	Giner Mestre, Mònica
3.4	Optimization of experimental parameters for the electro-oxidation of kraft lignin (resum)	Lladós Clos, Jaume

3.5	Iridium electrocatalysts supported on doped titania nanotubes for oxygen evolution reaction. (resum)	Mena Andrade, Santiago Andrés
4. Computational Studies		
4.1	Stereochemical influence on tuning the transition temperature in Spin-Crossover molecules (resum) (dipòsit)	Alcocer Bernuz, Carlota
4.2	Atomic Doping in Nano-oxides for Photocatalysis (resum)	Huang Haoyu
4.3	Preliminary study of organic radicals generated from 1,3,2-dithiazolyl capable of forming magnetic crystals. (resum)	Montes Segarra, Ainhoa
5. Syntesis and Reactivity		
5.1	Synthesis of molecular boxes using heptazine ligands. (resum)	Blanco Gea, José Antonio
5.2	Synthesis of cyclic peptide antibiotics and related compounds. (resum) (dipòsit)	Candelario Ribas, Hermes
5.3	Synthesis of N-acyl thioimides. Direct, catalytic and asymmetric reactions of construction of C-C bonds. (resum) (dipòsit)	Castella Rodríguez, Josep
5.4	Water-soluble organometallic complexes of lanthanides. (resum)	Conesa Escoda, Marc
5.5	Synthesis of functional organic dyes and their characterization using NMR, MS, UV-vis and fluorimetry. (resum) (dipòsit)	Font Fraga, Oscar

5.6	Synthesis and characterization of imine palladacycles. (resum)	Guadalupe Phang, Eva Sofia
5.7	Fluoride-triggered homoallylic trifluoromethylation of allyl fluorides with gem-difluoroalkenes. (resum) (dipòsit)	Insausti Brull, Gerard
5.8	Synthesis of PROTACs for Castration-Resistant Prostate Cancer. (resum)	Lluch Díez, Xavier
5.9	Synthesis of luminescent phosphane gold(I) complexes. (resum)	Onetti i Batlle, Oriol
5.10	Synthesis of iron (III) porphyrins and study of their magnetic properties. (resum)	Romo Carmona, Marc
5.11	Catalytic alkene and alkyne hidroacylation using Rh(I) complexes with diphosphanes. (resum) (dipòsit)	Saumell Palacios, Nil
5.12	Synthesis, structural and magnetic studies of new coordination complexes 3d and 4f with schiff bases derived from oxalic dihydrazide. (resum)	Sitjar Botey, Pedro
5.13	Characterization of complexes derived from the Ag ^{II} cation as candidate to quantum computation QUBITs. (resum)	Xuriguera Bravo, Clàudia

6. Methods and Techniques		
6.1	Characterisation of modified industrial filtration membranes by chemical imaging and chemometrics (resum)	Frías Bermúdez, Adrià
6.2	Ink optimization for the fabrication of Cu ₂ O-CeO ₂ gas diffusion electrodes. (resum) (dipòsit)	Orcera Busquets, Júlia
6.3	Effect of oxidations in the kinase domain of Src. (resum)	Urbano Romero, Laia
6.4	Copper hydrometallurgic processes. (resum)	Vindel Deras, Katherine N
7. Bibliographic research		
7.1	Metabolomic approach to assess arsenic stress in plants and algae. (resum) (dipòsit)	Bujons Lario, Jana
7.2	Activation of carbon dioxide mediated by organometallic complexes derived from earth-abundant metals. (resum) (dipòsit)	Carrascosa Estaún, Àngela
7.3	Superfluid helium nanodroplets and Chemistry. Fundamentals and applications. (resum)	Costa Boatella, Maria
7.4	Analysis of the effect of viscosity in the design of fluorescent molecular rotors. (resum) (dipòsit)	Gambin Sáez, Albert
7.5	Creation of a database of polonium distribution coefficient in soils. (resum) (dipòsit)	Planas Rafel, Aleix

7.6	Photoactive structures with multiple azobenzene units. (resum)	Ruiz Tienda, Eva
7.7	Formamide formation by different routes and on Titan. (resum)	Santillana López, Noemí
8. External Organizations		
8.1	Human biomonitoring and wastewater-based epidemiology as complementary approaches for early identification of chemical exposure risks at the neighborhood level. (resum) (dipòsit)	Ballester Miró, Olivia
8.2	Effect of TiO2 particle size: haemolytic activity and cell viability determination interference. (resum) (dipòsit)	Bescós Tenas, Laura
8.3	Developing of analytical methodology for the determination of per- and polyfluoroalkyl substances in drinking water. (resum)	Gil Estela, Carlota
8.4	Target Screening of Organic Contaminants in Lettuce Partially Irrigated with Reclaimed Wastewater. (resum)	Jiménez de Parga Gros, Ana
8.5	Implementation of the regulations of Annex 1 of GMP (Good Manufacturing Practice) in the production area of Laboratorios Grifols S.A. P9, Parets del Vallès. (resum)	Martínez Montes, Sonia
8.6	Occurrence of contaminants of emerging concern in urban groundwater samples from Barcelona city. (resum)	Mestanza Castelltort, Erik
8.7	Analysis of plasticizers in bird eggs from Doñana National Park. (resum)	Ortiz Lisbona, Sandra

8.8	Comparative evaluation of different film-forming ingredients as water resistance agents in sun protection products. (resum)	Ruiz Veja, Emma.
8.9	Atroposelective C–H amination. Synthesis of ligands and methodology. (resum) (dipòsit)	Sans Claro, Ariadma
8.10	Study of the electromagnetic shielding effect in a cable of a polymeric compound combined with different types of carbon nanoparticles. (resum)	Sufuentes Pérez, Abel Hermes
9. Erasmus/Sicue		
9.1	Deposition of $\text{BaCo}_{0.4}\text{Fe}_{0.4}\text{Zr}_{0.2}\text{O}_{3-5}$ material thin films through chemical solution via Spin-Coating. (resum) (dipòsit)	Gutierrez Arce, Judith
9.2	Transforming waste into fertilizer: exploring the future utilization of spent alkali activated material (aam) adsorbent (resum)	Serrahima Serra, Anna