

XII ENCMP 2024, 6-7 June 2024

PROGRAM OVERVIEW

Thursday, 6 June 2024	
10.00 – 10.45	Reception desk
10.45 – 11.00 Auditorium	Welcome & Introduction
Session 1	Chair (Auditorium): <i>José L. Figueiredo/Luís M. Martins</i>
11.00 – 11.40	PL1: “Exploring the pore space of transition metal- and Ln-silicates, and MOFs” João Rocha – Univ. Aveiro
11.40 – 12.00	KN1: “Interfacing photosynthetic biomolecules with electrodes for light-driven H ₂ production” Felipe Conzuelo – ITQB Univ. Nova Lisboa
12.00 – 12.20	KN2: “Harnessing visible light for cleaner water and sustainable chemical and fuels” Maria Sampaio – Univ. Porto
12.20 – 14.00	LUNCH BREAK
Session 2	Chair (Auditorium): <i>Joaquim Faria/Marta Piñeiro</i>
14.00 – 14.40	PL2: “Activation of molecular oxygen and selective oxidation” Janliang Xiao – Univ. Liverpool, UK
14.40 – 15.00	KN3: “Empowering biomass wastes through catalysis: Sustainable synthesis of high-value chemicals and fuels” Lucília Ribeiro – Univ. Porto
15.00 – 15.20	OP1: Prémio melhor tese de Doutoramento em Catálise e Materiais Porosos – André Torres Pinto – Univ. Porto
15.20 – 15.30	OC1: “Depolymerization of plastic waste catalyzed by homogeneous and heterogeneous catalysts” Ana Fernandes – IST Univ. Lisboa
15.30 – 15.40	OC2: “Transformation of biomass model compounds using Pt-Ni/Y catalyst prepared by mechanochemistry” Mariana Matos –, ISEL – Inst. Politécnico de Lisboa
15.40 – 15.50	OC3: “Cork-derived activated carbon for environmentally friendly supercapacitors” Raquel Rocha – Univ. Porto
15.50 – 16.00	OC4: “From Combustion Residues to magnetic catalysts: Innovative tool for water pollutant valorization” Iwona Kuźniarska-Biernacka – Univ. Porto
16.00 – 16.10	Q&A
16.00 – 17.00	Coffee break & Poster Session
Session 3	Chair (Auditorium): <i>Ana Paula Carvalho/Isabel Correia Neves</i>
17.00 – 17.20	KN4: “Catalytic valorization of biomass-derived synthons” Rafael Gomes – Univ. Lisboa, Portugal
17.20 – 17.30	OC5: “Ethylene photocatalytic oxidation for fruit ripening mitigation using TiO ₂ -based zeolite materials” Ricardo Ferreira – IST Univ. Lisboa
17.30 – 17.40	OC6: “Crude glycerol: using acid zeolites to obtain fuel additives” Isabel Santos-Vieira – Univ. Aveiro
17.40 – 17.45	Q&A
17.45 – 18.45	Catalysis and Porous Materials Division (DCMP) Meeting – open to all members (in Classroom C16)
19:00 – 19:30	Experimental workshop 1 : Biocatalysis – Producing liquids that you can drink!
19:30 – 20:00	Experimental workshop 2 : Biocatalysis – Producing liquids that you can drink!
20:00 – 20:30	Experimental workshop 3 : Biocatalysis – Producing liquids that you can drink!
20.30	Galla Dinner - at PRAXIS (Coimbra)

Friday Morning, 7 June 2024		
Session 4	Chair (Auditorium): <i>Cristina Freire/Beatriz Royo</i>	
9.00 – 9.40	PL3: "Synergistic approaches to catalyst design: from benchmark to elusive substrates" Montserrat Diéguez – Univ Rovira I Virgili, Spain	
9.40 – 10.00	KN5: "Functionalized metal–organic frameworks as platforms for gas adsorption and catalysis" Anirban Karmakar – IST Univ. Lisboa	
	Chair (Auditorium): <i>Cristina Freire/Beatriz Royo</i>	Chair (Classroom): <i>Andreia Peixoto/Sara M. Pinto</i>
10.00 – 10.10	OC7: "Mechanochemistry and catalysis, a powerful alliance for the development of sustainable processes" Marta Piñeiro – Univ. Coimbra	OC23: "Optimizing drug combinations for melanoma therapy by machine learning in zeolite delivery systems" Ana Raquel Bertão – Univ. Minho
10.10 – 10.20	OC8: "Biodiesel additives synthesis using metal(IV) phosphates catalysts: Esterification of levulinic acid" Graça Rocha – Univ. Aveiro	OC24: "Biomass-derived catalysts: heteroatom doping and metal incorporation towards high performance oxygen reduction" Renata Matos – Univ. Porto
10.20 – 10.30	OC9: "Sustainable fuel desulfurization using advanced porous catalytic membranes" Rui Faria – Univ. Porto	OC25: "Development of waste-based carbon dots as photo-nanocatalysts" Luís Silva – Univ. Porto
10.30 – 10.40	OC10: "Chlorophyll as a natural photocatalyst to obtain antimicrobial compounds from rosin oxidation" Cláudia Neves – Inst. Politécnico de Viseu	OC26: "Pd-catalyzed aminocarbonylation continuous-flow process: Multigram synthesis of carboxamides" Fabio Rodrigues – Univ. Coimbra
10.40 – 10.50	Q&A	Q&A
10.50– 11:15	Coffee break & Poster Session	
Session 5	Chair (Auditorium): <i>M. Graça Neves/Helder Gomes</i>	
11.15 – 11.35	KN6: "Sustainable Catalytic Processes for CO ₂ Valorization" Rui Carrilho – Univ. Coimbra	
11.35 – 11.55	KN7: "C–N bonding formation mediated by transition metals: a useful tool to modify the porphyrin core" Nuno Moura – Univ. Aveiro	
	Chair (Auditorium): <i>M. Graça Neves/Helder Gomes</i>	Chair (Classroom): <i>Fábio Rodrigues/Rafael Aroso</i>
11.55 – 12.05	OC11: "Rapid formation of vinylene linked phenanthroline covalent organic frameworks for photocatalysis" Clara Ponte – International Iberian Nanotechnology Laboratory, Braga	OC27: "Highly selective phthalocyanine-based catalysts for CO ₂ addition reactions to epoxides" Andreia Gonzalez – Univ. Coimbra
12.05 – 12.15	OC12: "Green aromatic epoxidation with an iron porphyrin catalyst for functionalization of renewable xylene, quinoline, and acridine" Gabriela Corrêa – Univ. Porto	OC28: "Tröger's base–linked POPs as heterogeneous catalysts for the nitroaldol condensation" Tiago Machado – Univ. Coimbra
12.15 – 12.25	OC13: "Sustainable approaches for CO ₂ catalytic conversion into fuels and valuable products" Luís Branco – Univ. Nova Lisboa	OC29: "Upgrading of biomass derivatives to biobased products for drop-in-fuels and chemicals over Niobium-based catalysts" Margarida Antunes – Univ. Aveiro
12.25 – 12.35	Q&A	Q&A
12.35– 14.00	LUNCH BREAK	

Friday Afternoon, 7 June 2024		
Session 6	Chair (Auditorium): <i>José Cavaleiro/Filipa Ribeiro</i>	
14.00 – 14.40	PL4: "Photocatalyzed and electrochemical reactions in both batch and continuous flow conditions: recent applications for fine chemicals and API's synthesis" Kleber T. Oliveira, Univ. S. Carlos, Brasil	
14.40 – 15.00	KN8: "Carbon nanotubes derived from plastic solid waste: catalytic applications" Helder Gomes – Inst. Politécnico de Bragança	
15.00 – 15.25	OP2: Prémio Ramôa Ribeiro investigador jovem – Mirtha Lourenço – Univ. Aveiro	
	Chair (Auditorium): <i>José Cavaleiro/Filipa Ribeiro</i>	Chair (Classroom): <i>Rui Carrilho/Andreia Peixoto</i>
15.25 – 15.35	OC14: "Synthesis of functional polymers for selective adsorption of bioactive compounds from olive leaf extracts" Aysata Almeida – Inst. Politécnico de Bragança	OC30: "Fruit ripening mitigation – Ag-based-ZSM-5 materials for ethylene removal under competitive adsorption" Livia Valle, – IST Univ. Lisboa
15.35 – 15.45	OC15: "Advanced smart textiles: Electrochromic supercapacitors boosted by glucose-derived carbon and PEDOT:PSS" Gabriela Queiroz – Univ. Porto	OC31: "Advanced heterogeneous degradation strategies for trimethoprim using porphyrin catalysts: From H ₂ O ₂ treatment to photocatalysis and flow chemistry processes" Giusi Piccirillo – Univ. Coimbra
15.45 – 15.55	OC16: "Polyoxotungstates@MIL-100(Fe) to achieve sustainable oxidative desulfurization and denitrogenation of fuels" Diniz Silva – Univ. Porto	OC32: "Getting Insights about zeolite desilication through machine Learning" Daniel Costa – IST Univ. Lisboa
15.55 – 16.05		OC33: "Improved ethylene production over Calcium doped La ₂ O ₃ perovskite nanofibers" Joana Martinho – IST Univ. Lisboa
16.05 – 16.15	Q&A	Q&A
16.15 – 16.30	Coffee break	
Session 7	Chair (Auditorium): <i>Mariette Pereira/Mário Calvete</i>	
16.30 – 16.50	KN9: "Functional porous materials for energy and biomedical applications" Sandra Gago – Univ. Nova Lisboa	
16.50 – 17.00	OC18: "Synthesis of 2-methylresorcinol-based cavitands by means of homogeneous catalytic reactions" László Kollar – Univ. Pécs, Hungria	
17.00 – 17.10	OC19: "Porous MOF-based materials with high potential to sustainable catalytic processes" Luís Cunha-Silva – Univ. Porto	
17.10 – 17.20	OC20: "Nanostructured binuclear catalysts and nanozymes by ionic self-assembly of first-row transition metalloporphyrins" Susana Rebelo – Univ. Porto,	
17.20 – 17.30	OC21: "CO oxidation on single-atom catalysts based on the molybdenum carbide (Mo ₂ CO ₂) MXene" José Gouveia – Univ. Aveiro	
17.30 – 17.40	OC22: "Catalytic system for conversion of sugarcane molasses waste to 5-hydroxymethylfurfural" Katarzyna Eblagon – Univ. Porto	
17.40 – 17.50	Q&A	
17.50 – 18.15	Closing session and Best Poster Award	