XI ENCMP/ II RGC 2021

Virtual meeting, 9-10 December 2021

PROGRAM OVERVIEW

Thursday, 9 Dec	ember 2021 (morning)				
Time (Lisbon, GM	IT) Online Session				
9:15-9:30	Welcome & Introduction				
ROOM A	A Artur Silva - Vice-Rector of the University of Aveiro and President of SPQ				
Armando Silvestre - Head of the Department of Chemistry, University of Aveiro					
	Anabela Valente (Carbon Group, SPQ) - Department of Chemistry, University of Aveiro - Chair of the XI ENCMP/ II RGC 2021				
	Mário Simões (Catalysis and Porous Materials Division, SPQ) - Department of Chemistry, University of Aveiro - Chair of the XI ENCMP/ II RGC 2021				
9:30-9:40	Solo piano concert - Mariana Miguel				
CHAIRS:	M. Fernando Pereira and João Pires				
9:40-10:25	PL1 - Dirk De Vos				
ROOM A	Microporous catalysts for the selective functionalisation of C-H bonds in arenes				
10:25-10:55	KN1 - Adrián Silva				
ROOM A	Catalytic Treatment of Environmental Contaminants of European Union Concern				
	10 min Break				
SESSION 1/4	CHAIRS: Mário Calvete and Helder Gomes				
11:05-12:35	11:05-11:20				
ROOM A	OC1 - José Richard B. Gomes				
	The potential of MXenes for catalyzing dissociation reactions				
	11:20-11:35				
	OC2 - Laura M. Salonen				
	Covalent Organic Frameworks for the Capture of Water Pollutants				
	11:35-11:50				
	OC3 – Salete S. Balula				
	Building a Bridge from Bulk Materials to Catalytic Membranes for Desulfurization Processes				
	11:50-12:05				
	OC4 - Diana M.M.S. Fernandes				
	POMs, MOFs & Carbon materials: the quest for efficient O₂ electrocatalysts				
	12:05-12:20				
	OC5- Maria del Carmen Bacariza Rey				
	Ni-based catalysts supported over activated carbon for CO₂ hydrogenation to CH₄: The use of cork waste as precursor				
	12:20-12:35				
	Q&A				
12:35-14:00	LUNCH BREAK				

Thursday, 9 December 2021 (afternoon)							
Time (Lisbon, GMT) Online Session							
CHAIR:	José Luís Figueiredo						
14:00-14:15	Memories (Peter Carrott Session)	·					
ROOM A							
CHAIRS:	José Luís Figueiredo and Ana Cristina Freire						
14:15-15:00	PL2 - J. Ángel Menéndez Díaz						
ROOM A	Custom 3D porous carbon structures from whey						
	10 min Break						
15:10-15:40	KN2 - Luísa M.D.R. de Sousa Martins						
ROOM A	The role of porous materials as supports for transition metal-scorpionate catalys	sts					
	10 min Break	1					
SESSION 2/4	CHAIRS: Anthony Burke and Luís Cunha Silva	CG SESSION 1/2	CHAIRS: Conceição Paiva and Anabela Valente				
15:50-17:20	15:50-16:05	15:50-17:20	15:50-16:05				
ROOM A	OC6 - Valentina Guimarães da Silva	ROOM B	OC-CG1 – Paula C. da Silva Ferreira				
	TiO ₂ /carbon quantum dots composites: a tool for the removal of antibiotics		Barium titanate piezoelectric flexible materials enabled by hierarchically porous				
	from aquaculture effluents through photodegradation		graphite for application as mechanical energy harvesters and sensors				
	16:05-16:20		16:05-16:20				
	OC7 - Daniel Pereira Costa		OC-CG2 - Pedro Miguel F.J. da Costa				
	Hierarchical zeolites for one step catalytic production of liquid hydrocarbons		Nanorange thickness graphite films: growth, transfer and applications				
	from syngas						
	16:20-16:35		16:20-16:35				
	OC8 - Anirban Karmakar		OC-CG3 - Lucília G. de Sousa Ribeiro				
	Development of Amide functionalized Coordination Polymers for heterogeneous		Valorization of agro-forestry biomass residues into ethylene glycol				
	catalytic applications						
	16:35-16:50		16:35-16:50				
	OC9 - Vasco Figueiredo Batista		OC-CG4 - Ana Paula Ferreira da Silva				
	Iron tris(pyrazolyI)methane catalysts in diazo amination reactions		Development of porous carbon materials from agro-industrial waste derived from				
			olive oil production				
	16:50-17:05		16:50-17:05				
	OC10 - Ricardo Jorge F. Ferreira		OC-CG5 - Rafael Gomes Morais				
	Climateric fruits ripening mitigation - Ag-based zeolites as efficient sorbents for		Cobalt and Iron Phthalocyanine-doped Carbon Nanotubes as Bifunctional Oxygen				
	the removal of ethylene		Electrocatalysts				
	17:05-17:20		17:05-17:20				
	Q&A		Q&A				
	10 min Break						
17:30-18:30	Posters Sessions	17:30-18:30	Sponsors Session				
	Posters P1-P43		CHAIR: Paula C. da Silva Ferreira				
	Posters P44-P86						
18:30-19:00	Catalysis and Porous Materials Division (DCMP) Meeting – open to all members						
19:00-19:30	Carbon Group (CG) Meeting – open to all members						

Friday, 10 December 2021 (morning)					
Time (Lisbon, GMT) Online Session					
CHAIR:	João Rocha				
9:10:9:25	Memories (Ana Cavaleiro Session)				
ROOM A					
9:25-9:40	The University of Aveiro Jazz Orchestra - artistic direction by João Martins				
CHAIRS:	João Rocha and José Richard Gomes				
9:40:10:25	PL3 – Rafael Luque				
ROOM A	Benign-by-design Porous (carbonaceous) materials for catalysis: present and future				
10:25-10:55	KN3 - Rui Pedro F. Ferreira da Silva				
ROOM A	Graphene and its outstanding applications				
	10 min Break				
SESSION 3/4	CHAIRS: Maria Miguéns Pereira and Joaquim Faria				
11:05-12:35	11:05-11:20				
ROOM A	OC11 - Ramôa Ribeiro Best PhD Thesis Award winner: Rui Sérgio da Silva Ribeiro				
	Hybrid magnetic carbon nanocomposites for environmental catalytic applications				
	11:20-11:35				
	OC12 - Raquel Pinto Rocha				
	Characterization of the surface chemistry of carbon materials by TPD: An assessment				
	11:35-11:50				
	OC13 – Carlos Bornes				
	Atomic-level description of ³¹ P-bearing NMR probe molecules adsorbed on zeolites				
	11:50-12:05				
	OC14 - Dânia Sofia M. Constantino				
	Immobilized carbon-based semiconductor materials for organic synthesis using an innovative photoreactor: the NETmix				
	12:05-12:20				
	OC15 - Pablo Arévalo-Cid				
	Electrodeposited metal foams: on the quest of improved catalysts for CO₂ electroreduction				
	12:20-12:35				
	Q&A				
12:35-14:30	LUNCH BREAK				

Friday, 10 Dece	Friday, 10 December 2021 (afternoon)						
Time (Lisbon, GMT) Online Session							
CHAIRS:	Filipa Ribeiro and Mário Simões						
14:30-15:00	KN4 – Ramôa Ribeiro Young Investigator Prize winner: Vânia M.A. Calisto						
ROOM A	Advances in biomass-derived microporous carbons: development and applications						
	10 min Break						
15:10-15:40	KN5 - Maria da Conceição Paiva						
ROOM A	Polymer Biocomposites with Functionalized Graphene for Biomedical Applications						
	10 min Break						
SESSION 4/4	CHAIRS: Armando Pombeiro and João Lourenço	CG SESSION 2/2	CHAIRS: Isabel Neves and Ana Paula Carvalho				
15:50-17:20	15:50-16:05	15:50-17:20	15:50-16:05				
ROOM A	OC16 - Andreia F.R. de Oliveira Peixoto	ROOM В	OC-CG6 - Liliana P. Lima Gonçalves				
	Biochar based catalysts for sustainable biomass valorisation		Ni on Carbon Electrocatalysts for Gas-phase CO₂ Methanation				
	16:05-16:20		16:05-16:20				
	OC17 - Andreia Gonzalez		OC-CG7 - Ana Sofia Mestre				
	Sustainable Catalytic Processes for the Development of Photosensitive		Influence of activated carbon surface chemistry on the removal of pharmaceutical				
	Polymeric Materials		compounds from water				
	16:20-16:35		16:20-16:35				
	OC18 – Luís Alexandre A.F.C. Branco		OC-CG8 - Marta Filipa F. Pedrosa				
	Silica and Metal Nanoparticles for heterogeneous catalysis in alternative		Metal-free graphene oxide for the photocatalytic degradation of organic contaminants				
	media		in aqueous phase				
	16:35-16:50		16:35-16:50				
	OC19 - Gonçalo Jorge S. Catalão		OC-CG9 - Carla I. Madeira dos Santos				
	Carbon dots-Composite Materials: Synthesis, Characterization, and		Novel hybrids based on graphene quantum dots covalently linked to amino porphyrins				
	Photocatalytic Activity		for bioimaging				
	16:50-17:05		16:50-17:05				
	OC20 - Filipe C. Teixeira Gil		OC-CG10 - Ana Rita Correia e Sousa				
	Tuning the Catalytic Reduction of Nitro-arenes Using Artificial Intelligence		Functional textiles based on MWCNTs and PEDOT:PSS composites for EMI shielding				
			applications				
	17:05-17:20		17:05-17:20				
	Q&A		Q&A				
	5 min Break						
CHAIRS:	Anabela Valente and Mário Simões						
17:25-17:55	KN6 - José Luís Figueiredo						
ROOM A	50 years of Catalysis in Portugal						
17:55-18:10	Closing Session & Best Poster prizes						
ROOM A							