

3rd Global Summit on

ADVANCED MATERIALS FOR ENERGY APPLICATIONS (GAMSE25)

30 April-2 May | Aveiro University, Portugal



GAMSE25

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SCIENTIFIC AGENDA

DAY-1

30 APRIL, 2025



SCIENTIFIC PROGRAM

3rd Global Summit on **Advanced Materials For Energy Applications (GAMSE25)**

Day 1 - 30 April, 2025 - Wednesday

Time	Speaker	Affiliation	Title
08:30-09:15	Registration		
09:15-09:30	Opening Cerem	nony Prof. Dr. Manuel GRAÇ	A
Keynote Session (Yüksel AKINAY)			
09:30-10:15	Toshiaki Murai	Department of Chemistry and Biomolecular Science, Faculty of Engineering Gifu University, Japan	5-N-Arylaminothiazoles as New Fluorescent Small Molecules
	Oral Session (Yüksel AKINAY)		
10:15-10:45	Juqin Zeng (Invited Talk)	Department of Applied Science and Technology (DISAT) Politecnico di Torino Turin, Italy	Catalyst and Process Design for Efficient Electrochemical Reduction of Carbon Dioxide
10:45-11:05	Anna-Lena Kjøniksen	Department of Engineering Østfold University College Fredrikstad, Norway	Utilization of phase change materials in self-levelling mortars
Coffee Break			
11:30-11:50	Alice Marciel	i3N and Department of Physics and CICECO and Department of Materials and Ceramic Engineering University of Aveiro Aveiro, Portugal	Advancing Electrochromic Technology for Multifunctional Flexible Devices: Deposition of Mixed Oxides Thin Films for Cutting-Edge Applications
11:50-12:10	Daniela Santos	Centre of Physics of Minho and Porto Universities (CF- UM-UP), Laboratory for materials and Emergent Technologies (LAPMET), University of Minho	Hybrid Nanofiber Systems Functionalized with Cyclodipeptides for Energy Harvesting Applications



12:10-12:30	Mosaed Saud Alhumaimess	Department of Chemistry College of Science, Jouf University, Sakaka, Saudi Arabia	Efficient Waste Cooking Oil Treatment for Large-Scale Biodiesel Production Using Mixed Metal Oxide Catalysts
		Break	
		Keynote Session (Ta	ayfun ÇETİN)
13:30-14:15	N. Gogneau	Center for Nanosciences and Nanotechnologies CNRS / Paris-Scalay & Paris- City Universities Palaiseau, France	High electromechanical conversion properties of III-Nitride nanowires for piezoelectric energy harvesting: Towards the development of autonomous micro-devices
	Oral Session (Tayfun ÇETİN)		
14:15-14:35	Susana Devesa	University of Coimbra, CEMMPRE, ARISE, Department of Mechanical Engineering	Boric Acid-Free Electrodeposition Process of Ni-Carbon Black Nanocomposite Coatings for Solar-Thermal Energy Conversion
14:35-14:55	Gabriel Santos	University of Coimbra, CEMMPRE, ARISE, Department of Mechanical Engineering	Nickel coatings doped with WS2 nanoparticles on copper substrates: enhancing solar absorption
14:55:15:15	Pavel Zelenovskii	"Department of Physics and CICECO University of Aveiro Aveiro, Portugal	(a) (b) (c)
15:15-15:35	Joana Regadas	i3N, Department of Physics University of Aveiro Aveiro, Portugal	Antioxidant and pro-oxidant properties of bioglass dopped with Cerium and Iron
		Coffee Break	
		Oral Session	
16:15-16:35	Mariana Relva	University of Coimbra, Physics Department, Rua Larga, 3004-516, Coimbra, Portugal	Dielectric Potential of Green- Synthesized Hydroxyapatite Using Hylocereus undatus Cladode Extract
16:35-16:55	lmen Hammami	I3N and Physics Department Aveiro University Aveiro, Portugal	Response of Copper and Niobium substituted bioactive glass for bone tissue regeneration



16:55-17:15	José Rabelo Neto	i3N and Department of Physics, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal	Innovative Multifunctional Theranostic Bioceramics: Co-Doping Strategies and Potential Impact Beyond Oncology
17:15-17:35	Bárbara Costa	i3N and Physics Departments University of Aveiro Aveiro, Portugal	A comprehensive study on the synthesis conditions of Fe3O4 Magnetic Nanoparticles
17:35-17:55	Zeynab Addayeva	Nano Research Laboratory Baku State University Baku, Azerbaijan	Investigation of The Structure And Morphology of FeGalnS4/ PVA + GO Composites
17:55-18:15	Mou'ad. A. Tarawneh	Department of Physics, College of Science Al- Hussein Bin Talal University P.O. Box 20, Ma'an , Jordan	Graphene Oxide Nanoplate- Reinforced Thermoplastic Elastomer Nanocomposites: Next-Production Materials for High-Performance Applications
18:15-18:35	Soner GÜLER	Department of Mining Engineering Van Yuzuncu Yıl University Van, Turkey	Green Concrete Solutions: The Impact of Pozzolanic Materials on Eco-Friendly Building
18:35: 18:55	Rui PAN	School of Electronic Science and Engineering Southeast University Nanji	Constructing Dual Redox Centers in Amorphous Vanadium Matrix for Flexible Aqueous Zinc-ion Battery

End of Day 1 Program



SCIENTIFIC AGENDA

DAY-2 01 MAY, 2025



SCIENTIFIC PROGRAM

3rd Global Summit on **Advanced Materials For Energy Applications (GAMSE25)**

Day 2 - 01 May, 2025 - Thursday

Time	Speaker	Affiliation	Title	
		Keynote Session (Fil	lipe Amaral)	
09:30-10:15	Rodrigo Ferrão de Paiva Martins	Director of CENIMAT i3N & CEMOP/UNINOVA	Emerging Technologies for a Sustainable Electronic and Energy Action	
		Oral Session (Filipe Amaral)		
10:15-10:40	Tomasz Wejrzanowski (Invited Talk)	Faculty of Materials Science and Engineering Warsaw University of Technology Warsaw, Poland	Advances in materials for high temperature fuel cells	
10:40-11:00	João Carvalho	i3N, Department of Physics University of Aveiro Aveiro, Portugal	Tuning the magnetocaloric properties of ErCrO3 via hydrothermal synthesis	
		Coffee Break		
11:20-11:40	Marta Razum	Division of Materials Chemistry Ruđer Bošković Institute Zagreb, Croatia	The effect of mixed transition metal oxides on the polaronic conductivity in vanadium phosphate glasses	
11:40-12:00	Zohra Benzarti	University of Coimbra, CEMMPRE, ARISE, Department of Mechanical Engineering, Rua Luís Reis Santos, 3030-788 Coimbra, Portugal	Structural, morphological, optical, dielectric, and photocatalytic properties of Lidoped ZnO nanoparticles for environmental applications	
12:00-12:20	Juliana Jesus	i3N and Department of Physics, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal	Biodistribution, Excretion and Toxicity of Nanoparticles in Magnetic Hyperthermia	
12:20-12:40	Yuksel AKINAY	Science Application and Research Center of Van Yuzuncu Yil University, Van TURKIYE	New Type 2D MXene Materials and Their Catalytic and Biomedical Applications	
		Lunch		



		Oral Session (Pa	vel Zelenovskii)
13:30-13:50	loanna Giannopoulou	National Technical University of Athens Athens, Greece	Novel sustainable and high performance catalysts for hydrogen fuel cells
13:50-14:10	FAOUZIA TAYARI	I3N-Aveiro, Department of Physics, University of Aveiro, Aveiro, 3810-193, Portugal	Sol–Gel Synthesized Perovskite Ceramics: Structural, Dielectric, Electrical, and Magnetic Properties for Energy Storage Applications
14:10:14:30	Gonçalo V. S. M. Carrera (Invited Talk)	Chemistry Department NOVA School of Science and Technology - LAQV -REQUIMTE Caparica, Portugal	The Design of Phase-Change Materials: The Concept of 2,4-Dichlorophenoxyacetic acid in the Melting Point Region
14:30:14:50	Loizos Georgiou	RTD Talos Ltd Nicosia, Cyprus	Inorganic polymers as advanced and sustainable materials for sensible heat storage
14:50:15:10	Sivabalan Maniam Sivasankar	i3N and Physics Department, University of Aveiro, Aveiro 3810-193	Interface and surface engineering of CIGS films to improve cell
15:10:15:30	Cesár Lopes	University of Coimbra, Portugal	T6 Heat Treatment of Robotized CMT Weld of AA6061-T4 Alloy
		Coffee Break	
		Oral Session (Par	vel Zelenovskii)
16:00-16:20	Olena Lavrynenko	Dept. Functional Ceramics Based on Rare Earths Frantsevich Institute for Problems of Materials Science NASU Kyiv, Ukraine	New advanced water-splitting photocatalysts based on titanium and manganese nanooxides
		Polytechnic University of Coimbra; H&TRC-Health	Development of flexible



& Technology Research



16:20-16:40

Filipe Amaral

composites for energy storage

17:45-18:10	K. Pavani	I3N and Physics Department Aveiro University Aveiro, Portugal	Non-concentration quenching phenomena in red-emitting Eu3+ doped layered bismuth tungstate Aurivillius family compound
18:10-18:30	Sílvia Soreto	i3N and Physics Department, University of Aveiro, Aveiro 3810-193 Portugal	Dielectric Properties of Co-doped TiO2 ceramics: Role of Grain Size Co-dopants (Mg, Nb) for energy storage
18:25-18:45	Orkhan Gulahmadov	Nano Research Laboratory Baku State University Baku, Azerbaijan	Enhancing Triboelectric Nanogenerator Performance Using Nylon/FeIOII Nanocomposites Under Magnetic Field Influence
18:45-19:05	Akbar Esmaeili	Department of Chemical Engineering, North Tehran Branch, Islamic Azad University, PO Box 19585/936, Tehran, Iran	Production of Drinking Water Based on the Condensation Process and Solar Panels

End of Day 2 Program

Closing and Awards Ceremony





SCIENTIFIC AGENDA

DAY-3 02 MAY, 2025



SCIENTIFIC PROGRAM

3rd Global Summit on **Advanced Materials For Energy Applications (GAMSE25)**

Day 3 - 02 May, 2025 - Friday

Lunch

Delegate

Neha Mistry Oxford Press

Matt Caffrey 290-292, Sicence Park

End of the Conference



EXPLORING AVEIRO

Ria de Aveiro Lagoon: The city is located on a lagoon surrounded by canals. Tours can be made on this lagoon with moliceiros, colorful and elegant boats. These boats were traditionally used to collect seaweed.

Art Nouveau Architecture: Art Nouveau style buildings are notable in Aveiro. It is possible to see many beautiful architectural works, especially while walking in the city center.

Praia da Barra and Praia da Costa Nova: These are two beaches close to Aveiro. Costa Nova is famous for its colorful striped houses and is an ideal place for photography enthusiasts.





