

ANM2025 Portugal (23-25 July 2025, University of Aveiro, Portugal)

Confirmed Speakers

Prof. Ibrahim Dincer (Plenary) Ontario Tech University, Canada The Role of Universities and Technological Priorities in Energy Solutions	Prof.Ajayan Vinu (Plenary) The University of Newcastle, Australia Advanced Nanostructured Materials for Energy and Environmental Applications	Prof.Francisco Javier Ramírez Universidad de Málaga, Spain Chiroptical Characterization of TrögBase Based Triangular Macrocycle with a Nanoscale Cavity	Dr.Nan Li Northwestern polytechnical university, China Rapid solidification of Half-Heusler alloys by glass fluxing technique
Dr. Venkata S. R. Jampani Jozef Stefan Institute, Slovenia Water-based templating of nanoscale polymer thin films for packaging	Dr.Jilian Freitas Centro de Tecnologia da Informação Renato Archer, Brazil Low-cost materials and processes for the upscaling of perovskite solar cells	Prof.Pranab Goswami (Keynote) Indian Institute of Technology Guwahati, India An Approach to Eliminate Voltage Reversal in Series- Stacked Water Lettuce- Assisted Sediment Microbial Fuel Cells	Prof.Francesca Demichelis Politecnico di Torino, Italia Two-Stage Anaerobic Digestion as a Biorefinery for Hâ,, and CHâ,,, Productions with Material Recovery
Prof.Hiroyuki Aoki Japan Atomic Energy Agency, Japan Polymer nano-particles for highly sensitive in vivo photo-acoustic imaging	Dr.Ilona Smolkova Centre of Polymer Systems, Tomas Bata University in Zlin, Czech Republic Iron oxide nanoparticles dispersions: feasibility for magnetic hyperthermia	Dr.Petr Smolka Tomas Bata University in ZlÃ-n, Czech Republic Ultra-thin Coating of BOPET Foils for Surface Functionalizing	Prof.Shing-Yi Suen National Chung Hsing University, Taiwan Enhanced Carbon Capture Efficiencies Using Pebax- PEG/Amino-Functionalized TiO2 Particles Mixed Matrix Membranes
Prof. Victor Manuel Balcao University of Sorocaba, Brazil Use of lytic nanoparticles with encapsulated bacteriophages to control coffee canker associated with Pseudomonas coronafaciens pv. garcae: in planta studies	Prof.Ilenia Rossetti (Keynote) Milan University, Italy Adsorption Technologies for Sustainable Reduction of CH4 and CO2 from Agricultural Livestock	Prof.Gianguido Ramis (Keynote) Genoa University, Italy High-Pressure CO2 Photoreduction, FSP and Z- scheme: a Promising Synergy	Dr.Miklós Csontos Institute of Electromagnetic Fields, ETH Zurich, Switzerland Picosecond Femtojoule Resistive Switching in Nanoscale VO2 Memristors
Dr. Teresa Esteves (Keynote) Instituto Superior Tecnico, Portugal Advanced wireless electrostimulation nanomaterials for cancer therapy.	Dr.Fernando Gonzalez-Zavala UAEMex, Mexico TiO2Co precipitates for Photocatalytic degradation of organic molecules	Prof.Hyung-Ho Park Yonsei University, Korea (south) F-doped Tin Oxide Aerogel Catalyst for High- Performance Hydrogen Generation	Ms.Kendra Damaske Biola University, United States Nano-formulations of Curcumin and Montmorillonite: Characterization and Anticancer Study Against HCT-116 Colorectal Cancer Cells.
Mr.Kyu-Yeon Lee Yonsei university, South Korea A study on Mg(OH)2/silica composite aerogel filler on the glass transition temperature and flame retardancy of peelable polymer coatings	Mr.Matjaz Malok Jozef Stefan Institute, Slovenia Electrical properties of collapsed MoS2 nanotubes	Dr.Carmen Barriocanal INCAR-CSIC, Spain Recycling of Graphite from end-of-life Batteries	Dr.Carmen Barriocanal INCAR-CSIC, Spain Preparation of Carbon Dots: Impact of the Hydrothermal Carbonization Temperature
Dr.Anna Kornyushchenko University of Muenster, Germany	Ms.Maliheh Nazari University of Aveiro, Portugal	Prof.Gul Rahman	Dr.Aurelian Crunteanu

Formation of TiTaZrNiWMo layers with nano- and microsized structural elements Mr.Muhammad Aasim University of Porto, Portugal Study of Hydrogen Impurities on NdFeO3	Facile fabrication of Pd-WO3 sensing particles for visual detection of hydrogen Mr.Jorge Gajardo Universidad de Concepcion, Chile Ultrafast sonochemical synthesis of SBA-15	Quaid-i-Azam University, Pakistan Room temperature ferromagnetism and piezoelectricity in Janus PdBrCl monolayer Prof.Peter Krajnc University of Maribor, Slovenia Impact of RAFT Polymerization on the	XLIM Research Institute, CNRS/ University of Limoges, France Large-area, thermal and electrical activation of metal-insulator transition in W-doped VO2 films for THz applications Mr.Oihan Allegret Universiti de Limoges, France Tungsten implantation of VO2 nanobeams for neuromorphic applications
	mesoporous silica at 25 °C	Structure and Properties of Nanoporous (Hyper)crosslinked Poly(vinylbenzyl chloride- co-divinylbenzene) PolyHIPEs	
Prof.Lukasz Skowronski Bydgoszcz University of Science and Technology, Poland The Au-coated AISI 304L stainless steel plates as effective NALDI substrates for the detection of low molecular weight compounds	Prof.Jean-Christophe Orlianges Universiti de Limoges, France Physical properties of CdTe thin films obtained by pulsed laser deposition at room temperature	Dr.Ali Hassan Institute of Physics of the Czech Academy of Sciences, Czech Republic Magnetic and Magnetic Particle Spectroscopy Studies of Co-Ni Ferrite Nanoparticles	Dr.Anand Kumar (Keynote) Qatar University, Qatar Exploring Mg-Substituted LaNixMg1â^'xO3 Perovskites for Efficient Methane Reforming
Dr.Dalila Antunes Factor Social, Portugal Fusing Technology Readiness Levels (TRLs) and Safety-by- Design (SbB) for Guiding Investment in Emerging Technologies	Dr.Ravi Kiran Mandapaka Indian Institute of Petroleum and Energy, India Reduced rate expression for Water gas shift reaction over Ni using R dot approach	Dr.Unai Iriarte University of The Basque Country (UPV/EHU), Spain Evaluation of bone char as catalytic support for Hydrogen production by Aqueous Phase Reforming (APR) of liquid waste- biomass	Dr.Martina Urbanova Institute of Macromolecular Chemistry CAS, Czech Republic Structural Characterization of Alginate-Pectin Systems Crosslinked by Polyvalent Ions by ssNMR, FTIR and Factor Analysis
Dr.Jiri Brus (Keynote) Institute of Macromolecular Chemistry CAS, Czech Republic A Novel Insight into the Domain Architecture of Transition-Metal Cross-Linked Alginates: Paramagnetic Solid-State NMR Spectroscopy	Dr.Sara Rabia Nantes university, France Flexoelectricity in conjugated polymers and biopolymers	Dr.Philippe Baranek EDF R&D, France Effect of the chemical composition and dimensionality of halide perovskites for photovoltaic applications on their basic properties: Towards a stable perovskite	Prof.Sang Yong Nam Department of Materials Engineering and Convergence Technology, South Korea Functional polymeric membranes to produce green hydrogen using water electrolysis
Prof.Sang Yong Nam Gyeongsang National University, South Korea Improvement of Vanadium Redox Flow Battery Performance Using Ionic Liquid-Based Polybenzimidazole Composite Membranes	Prof.Sang Yong Nam Gyeongsang National University, South Korea Development of PVA/GA- Coated PVDF Hollow Fiber Membranes for Efficient Oil- in-Water Separation	Dr.Denis Cutcovschi Technical University "Gh. Asachiâ€□ of Iasi, Romania "In situ" synthesis of nickel nanoparticles on ZnSn-layered double hydroxides for driving catalytic reduction of CO2 through light irradiation	Dr.Oleg Tihon Technical University "Gh. Asachiâ€□ of Iasi, Romania Nanoparticles of silver/layered double hydroxides as nanoarchitectonics with solar photocatalytic response for pollutants removal
Mr.Abbas Zirakjou École de technologie supérieure - ÉTS Montréal, Canada Screen-printed CuO-based Thin Films for Photocatalysis	Dr.Rui Costa IFIMUP, Department of Physics and Astronomy, Faculty of Sciences of Porto University, Portugal	Dr.Adrian Petraru Nanoelectronics, Institute of Electrical Engineering and Information Engineering, Kiel University, Germany, Germany	Dr.Hana Krysova J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Czech Republic Protection of WO3 electrodes against dissolution and

	Stochastic Ag NWs-based Physical Reservoirs for Neuromorphic Applications	Structural and electrical characterization of rhombohedral epitaxial doped HfO2 ferroelectric films deposited on various substrates	photocorrosion through TiO2 ALD coating
Prof.Andrzej Wawro Institute of Physics Polish Academy of Sciences, Poland Tunable magnetic anisotropy and Dzyaloshinskii-Moriya interaction in Pt/Re/Co/Pt and Pt/Co/Re/Pt heterostructures	Dr.Hana Tarabkova J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Czech Republic Characterization of Thin Film TiO2 Photoelectrodes Prepared by Various ALD Procedures	Dr.Jan Meissner Forschungszentrum Jù/₄lich GmbH, Germany A unique technology for the deposition of nanoparticles on catalyst supports	Mr.Timon Gunther University of Augsburg, Germany Optimization of highly active Raney-Nickel cathodes for alkaline water electrolysis (AWE) during the hydrogen evolution (HER) at high current-densities
Ms.Catalina-Diana Usurelu National Institute for Research & Development in Chemistry and Petrochemistry– ICECHIM, Bucharest, Romania, Romania Compositions with antibacterial properties for dental tissue engineering based on biopolymers and nanocellulose modified with natural aldehydes	Mr.Pedro Ferreira University of Porto, Portugal Soft-based resistive-switching devices for artificial synapses	Prof.PATRICK DA COSTA (Keynote) Sorbonne Université, France Gd promoted inverse ZrO2/Ni catalysts for CO2 methanation	Prof.PATRICK DA COSTA Sorbonne Université, France On the effect of the synthesis method of Ni-MgO catalysts prepared from Upsalite
Prof.Jean-Fabien CAPSAL LGEF-INSA Lyon, France Enhanced Performance of Piezoelectric Composites through Nano/Meso Structuring	Prof.Meltem Yanilmaz ITU NCSU, USA Modified cathodes via LLZO coating for lithium batteries	Dr.Hana Kmentova Regional Center of Advanced Technology and Materials, Palacký University Olomouc, Czech Republic Optimizing CO2 Reduction Selectivity through Structural Modification of TiO2 Photocatalysts	Prof.Stepan Kment Regional Center of Advanced Technology and materials/CATRIN, Palacký University Olomouc, Czech Republic Ultrasound-Induced Defect Engineering in TiOâ,,–x Nanotubes for Highly Efficient Photocatalytic Water Splitting with Platinum Single-Atom Enhancement
Dr.Sheta Mohamed National Research Centre, Egypt Early diagnosis of liver cancer using promising novel nanocomplex based-ferric β- cyclodextrin	Dr.Irum Shaheen Queen Mary University of London, United Kingdom Synergistic Integration of 2D V2C With Zn-MOFs For Improved Energy Storage Supercapacitor Application	Prof.Alexa Courty sorbonne universite, France Fine-Tuning Copper-Based Nanocatalysts for Optimized CO2 Conversion	Dr.Maria Jose Piernas University of Murcia, Spain Unveiling the anodic reaction mechanism of Prussian blue in Li- ion batteries
Dr.Francisco De Santiago Instituto de Fisica, UNAM, Mexico A DFT study of Li adsorption in a GeC bilayer for Li-ion batteries	Dr.Antonin Minarik Faculty of Technology, Tomas Bata University in ZlÃ-n, Czech Republic Proteins and synthetic polymers blends for 3D printing of scaffolds	Prof.Meltem Yanilmaz ITU, Turkey Facile spinning technique for synthesis of nanostructured energy materials	Prof.Wein-Duo Yang Department of Chemical and Materials Engineering, National Kaohsiung University of Science and TechnologyN, Taiwan N-Doped MoS2-Carbon Base Electrodes for Flexible Supercapacitors
Dr.Kwonwoo Shin Korea Electronics Technology Institute(KETI), Repblic of Korea The study on improvement of thermal stability and heating	Dr.Kwonwoo Shin Korea Electronics Technology Institute (KETI), Republic of Korea	Dr.Noof Alenazi Department of Chemistry, College of Science and Humanities in Al-Kharj, Prince Sattam bin Abdulaziz	Dr.Ivana Troppova VSB-TU Ostrava, CEET, Institute of Environmental Technology, ÄŒesko

properties through surface coating of silver nanowire	The study on enhanced environmental stability and degradation resistance of silver nanowire via inorganic coating by ALD	University, Al-kharj 11942, Saudi Arabia, Saudi Arabia Chitosan nanoparticles included different doses of copper oxide nanoparticles produced by molasses: Investigating electrical conductance and antibacterial attributes	Monolithic TiO2-CeO2 and Pt/TiO2-CeO2@VUKOPOR®A ceramic foams in oxidation of dichloromethane and methanol
Dr.František Hájek Institute of Physics of the Czech Academy of Sciences, Czech Republic MOVPE grown InGaN/GaN coreshell microrods for photocatalytic water splitting	Dr.Luis Duarte Institute of Chemical Research of Catalonia (ICIQ), Spain De Novo Designed Proteins as Customizable Matrices for Light Conversion	Dr.Piyali Chatterjee Jagiellonian University, Poland FeWO4/WO3 Photoelectrodes for Solar Water Oxidation	Dr.QIN HUANG BEIJING JIAOTONG UNIVERSITY, China Towards Safe Hydrogen Delivery: A Systematic Review of Hydrogen Explosion Suppression in Porous Media Materials
M.C.Luis Angel Arellanes- Mendoza Universidad Tecnologica de la Mixteca, México Porous and Conductive Al2O3- ZnO Ceramics Bonded and Foamed with Glycerol-Citrate Polyester for Photoelectrode Applications	Dr.Krzysztof Lukaszkowicz Silesian University of Technology, Poland Characteristics of ZnO thin films deposited by magnetron sputtering and ALD process	Prof.Eva Mihokova Institute of Physics of the Czech Academy of Sciences, Czech Republic Highly Loaded Cesium Lead Halide Perovskite Nanocomposites for Advanced Radiation Detectors	Ms. Wiktoria Weichbrodt Wroclaw University of Science and Technology, Poland Influence of thickness of WO3 thin films deposited by GLAD on gasochromic response to hydrogen
Dr.Joanna Banas Gac AGH University of Krakow, Polska Black titania thin film photoelectrodes for sustainable energy	Ms.Paulina Kapuscik Wroclaw University of Science and Technology, Poland Correlation Between Electron Beam Evaporation Conditions and Sensor Response of Cerium Oxide Coatings	Prof.Rahul Bhosale (Keynote) University of Tennessee, USA Perovskite Oxides for Solar Thermochemical Splitting of H2O/CO2 into Fuels	Prof.Rahul Bhosale University of Tennessee, USA Solar-Powered Thermochemical Conversion of H2O and/or CO2 into Fuels Utilizing Doped Iron Oxides
Prof.Rahul Bhosale University of Tennessee, USA Examination of Ceria Doped with Zirconium for the Generation of Solar Thermochemical Fuels through the Splitting of H2O and CO2			