

INTERNATIONAL CHEMISTRY CONFERENCE

JUNE 27-29, 2022, CEST



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International Chemistry Conference

June 27-29, 2022



Conference Chair: Prof. Geoffrey Robert Mitchell, Vice-Director, CDRSP, Portugal

Conference time GMT+2, Spain	Presenters Local Time	Presentation Details
Day-1 June 27, 2022		
08:50-08:55		Welcome & Introductory Comments by Team Elanova
08:55-09:00		Welcome & Introductory Comments by Chemeet Conference Chair
Plenary Presentations		
Session Chair		Prof. Geoffrey Robert Mitchell, CDRSP, Portugal
09:00-09:30	17:00-17:30	Title: The Roles of Polymorphism in Energy Conversion Zongyou Yin , Australian National University, Australia
09:30-10:00	15:30-16:00	Title: Electrochemical Energy Storage Systems with High Safety Yuping Wu , Nanjing Tech University, China
10:00-10:30	09:00-09:30	Title: Controlling Molecules with Light Geoffrey Robert Mitchell , CDRSP, Portugal
10:30-10:40		Coffee Break
10:40-11:10	09:40-10:10	Title: The Charge Carrier Lifetime Challenge in Photoelectrodes and Photocatalysts for Solar Driven Water Splitting James Robert Durrant , Imperial College London, United Kingdom
11:10-11:40	11:10-11:40	Title: Catalytic Water Splitting and Mechanisms of O-O Bond Formation--from Natural to Artificial Photosynthesis Licheng Sun , Westlake University, China ; KTH Royal Institute of Technology, Sweden
11:40-12:10	11:40-12:10	Title: Efficient and Stable Perovskite Solar Cells and Modules by Interfacial and compositional Engineering Nazeeruddin Md. Khaja , EPFL, Switzerland
12:10-12:40	12:10-12:40	Title: Enhancing Stability of Pb-Based and Pb-free Perovskite Solar Cells Ivan Mora Sero , INAM; Universitat Jaume I, Spain
12:40-13:10		Lunch

13:10-13:40	13:10-13:40	Title: Dye-Sensitized and Perovskite Solar Cells with Record Efficiencies Anders Hagfeldt , Uppsala University, Sweden
13:40-14:10	13:40-14:10	Title: Halide Perovskite Memristors and Neurons Analysis by Impedance Spectroscopy Juan Bisquert , Universitat Jaume I, Spain
14:10-14:40	08:10-08:40	Title: Highly Emissive Hybrid Copper Halides for Energy Efficient Lighting Applications Jing Li , Rutgers University, USA
14:40-15:10	21:40-22:10	Title: Photocatalytic Water Splitting for Solar Hydrogen Production Kazunari Domen , The University of Tokyo, Shinshu University, Japan

Keynote Presentations

Session Chair		Andrada Serafim , University Politehnica of Bucharest, Romania
15:10-15:35	14:10-14:35	Title: Polymers as Potential Nanocarriers to Target Tumor Across Blood-brain Barrier Geetha Heggannavar , Karnatak University, India
15:35-16:00	14:35-15:00	Title: Microalgae for Industrial Wastewater Treatment Telma Encarnacao , University of Coimbra, Portugal
16:00-16:25	16:00-16:25	Title: Catalytic Activity of Reverse-engineered Nanogold Particles Embedded in Silica Aerogels for Static and Continuous-flow Applications Istvan Lazar , University of Debrecen, Hungary

16:25-16:40

Break

Chemeet Session-1 Green Chemistry

16:40-17:00	16:40-17:00	Title: Analysis, Development and Scaling-up of Olive Fiber-based Biocomposites Production for Industrial Applications in the Life-Comp0Live Project Juan Pablo Ferrer , Fundacion Andaltec I+D+i, Spain
17:00-17:20	10:00-10:20	Title: Use of LignoCelullosic Waste Materials as Asphalt Additives Jose Luis Rivera Armenta , ITCM, Mexico
17:20-17:40	17:20-17:40	Title: Ferroelectric Poly(vinylidene fluoride) (PVDF) Nanoparticles Pre-pared by Dialysis Nanoprecipitation Aurora Nogales , IEM-CSIC, Spain
17:40-18:00	16:40-17:00	ECR: Additive Manufacturing: A New Approach to Produce Chromatographic Supports Joana Valente , CDRSP, Portugal

Day-2| June 28, 2022

Plenary Presentations

Session Chair	Prof. Geoffrey Robert Mitchell , CDRSP, Portugal
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09:00-09:30	15:00-15:30	Title: Metal-Organic Frameworks for Catalysis and Energy Qiang Xu , Southern University of Science and Technology, China
09:30-10:00	16:30-17:00	Title: Identification and Detailed Characterization of Solid Materials Through Electron Trap-Distribution Analysis Bunsho Ohtani , Hokkaido University, Japan
10:00-10:30	10:00-10:30	Title: Mofs and Related Composites for the Energy Transition Christian Serre , CNRS, France
10:30-11:00	14:00-14:30	Title: Emergence of Sustainable Feedstocks in Upcoming Class of Phenolic Polymers and their Applications: Polybenzoxazines Bimlesh Locab , Shiv Nadar University, India
11:00-12:31		Poster presentations
Poster Judge		Prof. Geoffrey Robert Mitchell, CDRSP, Portugal
11:00-11:07	10:00-10:07	P1- Understanding the Potential of 1,4- and 1,2-naphthoquinone Derivatives as Acetylcholinesterase Enzyme Inhibitors Gonçalo Viegas , University of Lisbon, Portugal
11:07-11:14	10:07-10:14	P2: Development of Soybean-based Mixtures for 3D Printing of Antimicrobial Materials Inês Amaral , University of Lisbon, Portugal
11:14-11:21	17:14-17:21	P3- From Bilayer Boron Clusters to Bilayer Borophenes: Why and How Yuanyuan Ma , Shanxi University, China
11:21-11:28	18:21-18:28	P4- Effect of Shear Flow on the Structure and Properties of Polypropylene Film K. Janchai , JAIST, JAPAN
11:28-11:35	18:28-18:35	P5- Evaluation of Flow-induced Crystallization for Poly(Lactic Acid) G. Vo , JAIST, JAPAN
11:35-11:42	18:35-18:42	P6- Structure and Properties of Isosorbide-based Polycarbonate Containing Citrate Ester R. Han , JAIST, JAPAN
11:42-11:49	18:42-18:49	P7- Viscosity at Pressure-driven Shear Flow for Immiscible Blends Containing a Low-viscous Polymer N. Moonprasith , JAIST, Japan
11:49-11:56	10:49-10:56	P8- Microalgae Technology: A Sustainable Alternative for Chemical Industry Pedro Guincho , PTScience, Portugal
11:56-12:03	12:56-13:03	P9- The Development and Biological Activity of Thieno[2,3-d]pyrimidine-based Allosteric Regulators of Thyrotropin Receptor Ekaterina Fokina , Russian Academy of Sciences, Russian Federation
12:03-12:10	13:03-13:10	P10- Simulating a Heterografted Polythiophene Copolymer. A Comparison Between Implicit and Explicit Solvent Models. Razvan Puf , ICMPP, Romania
12:10-12:17	12:10-12:17	P11: Design, Synthesis and Biological Evaluation of New Cholinesterase Inhibitors Inspired By a Metabolite Isolated from an Antarctic Sponge Ines Mancini , University of Trento, Italy
12:17-12:24	13:17-13:24	P12: Biomass-Derived Porous Carbon Materials for Electrochemical Storage Devices Meruyert Nazhipkazy , Al-Farabi Kazakh National University, Kazakhstan

12:24-12:31	12:24-12:31	P13 -The H2020 METHASOL Project, Towards the Photoconversion of CO ₂ to Methanol Katrin Heinzerling , IMAP, France
12:31-12:50		Lunch
Chemeet Session-2 Chemistry		
Session Chair		Maria Vasilopoulou , Institute of Nanoscience and Nanotechnology, Greece
Session Chair		Nathalie Steunou , UVSQ, France
12:50-13:10	18:50-19:10	ECR : Electrochemical Active Li ₄ Ti ₅ O ₁₂ in PVDF Composite as Solid State Electrolytes Qi Zhou , NanjingTech University, China
13:10-13:30	15:10-15:30	Title : Role of Molecularly Arranged Carrier in Controlled Drug Delivery Mohammad Changez , University of Buraimi, Oman
13:30-13:50	16:00-16:20	Title : Tailoring the Toughness of PLA with the Aid of Surface-treated Boron Nitride Nanosheets: A Molecular Dynamics Study Abbas Montazeri , K.N.Toosi Univeristy of Technology, Iran
13:50-14:10	13:50-14:10	Title : Reservoir Effect on the Drug-delivery of Essential Oils Microencapsulated and Applied to Textile Substrates Manuel J Lis , Polytechnic University of Catalonia, Spain
14:10-14:30	14:10-14:30	Title : Design of Mof/Gelatin Hydrogel Composites Mediated by Coacervation Process for the Capture of Volatile Organic Compounds. Nathalie Steunou , UVSQ, France
14:30-14:50	15:30-15:50	Title : Thiophene-quinoxaline Copolymers for High Efficiency Blue Organic light-emitting Diodes with Below-bandgap Electroluminescence Maria Vasilopoulou , Institute of Nanoscience and Nanotechnology, Greece
14:50-15:10	14:50-15:10	Title : Carbon-based Photothermal Membranes for Solar-Driven Desalination Sergio Santoro , Università della Calabria, Italy
15:10-15:30	16:10-16:30	Title : Preparation of Activated Carbon from Pine and Elm Sawdust for Supercapacitor Meruyert Nazhipkazy , Al-Farabi Kazakh National University, Kazakhstan
15:30-15:50	15:30-15:50	Title : Lignocellulose as Precursor of Elastomers, Adhesives and Lubricating Greases via Polyurethane Formation Antonio M. Borrero-López , Universidad de Huelva, Spain
15:50-16:10	15:50-16:10	ECR : In Depth Investigation of the Co-adsorption Properties of MOF Thin Films by in Operando Spectroscopic Ellipsometry: Application for Cultural Heritage Conservation Sanchari Dasgupta , UVSQ, France
16:10-16:30	16:10-16:30	ECR : Graphene Oxide as a Structural Directing Agent of MOFs Ali Saad , Institut Lavoisier de Versailles, France
16:30-16:50		Break

Chemeet Session-3 Food Chemistry

Session Chair		Maria Manuel Gil, Polytechnic of Leiria, Portugal
16:50-17:10	16:50-17:10	Title: Non-Traditional Sources of Various Types of Polysaccharides Bleha Roman , University of Chemistry and Technology, Czech Republic
17:10-17:30	16:10-16:30	Title: Knowledge and Consumption Habits Related with White Crowberries Maria Barroca , Universidade de Coimbra, Portugal
17:30-17:50	17:30-17:50	Title: Supercritical Hop Extracts and their Formulations as Gram-positive Bacteria Industrial Control Guillermo Andres Guerrero Vasquez , University of Cádiz, Spain
17:50-18:10	11:50-12:10	Title: Natural Antimicrobials for Extending the Shelf Life of Foods Cielo Char , University of Chile, Chile
18:10-18:30	17:10-17:30	Title: Microalgae as a Colouring Agent in Bakery Products Maria Manuel Gil , Polytechnic of Leiria, Portugal

Day-3, June 29, 2022

Keynote Presentations

Session Chair		Prof. Geoffrey Robert Mitchell, CDRSP, Portugal
09:00-09:25	16:00-16:25	Title: Selective Localization of Nanofillers in Immiscible Polymer Blends Masayuki Yamaguchi , JAIST, Japan
09:25-09:50	15:25-15:50	Title: TBA Shiguo Chen , Zhejiang University, China
09:50-10:15	15:50-16:15	Title: Semiconducting Bilayer Borophenes: Theory and Experiments Si-Dian Li , Shanxi University, China

Chemeet Session-4 Green Chemistry

10:15-10:35	16:15-16:35	Title: Visualizing the Evolution of Trap State Distribution During the Crystallization of Perovskite Polycrystals by In-situ, Real-time Optical Spectroscopy Yi Wang , Renmin University of China, China
10:35-10:55	16:35-16:55	Title: Changes in Molecular and Crystal Structures of Cellulose may be Responsible for Unrecoverable Dry Damage of Waterlogged Archaeological Wood Juan Guo , Research Institute of Wood Industry, China
10:55-11:15	16:55-17:15	Title: Accurate Van Der Waals Force Field Li Yang , Shandong University, China
11:15-11:25		Break

Chemeet Session-5 Organic and Physical Chemistry

Session Chair		Abeer Al Mohtar, University of Lisbon, Portugal
11:25-11:45	11:25-11:45	Title: On The Solvatochromism of Liquid Water from 0 To 100 C. A Tentative Crossover Temperature (Or Phase Transition) at 43 °C Juan Carlos del Valle Lázaro , Universidad Autonoma de Madrid, Spain
11:45-12:05	11:45-12:05	Title: Synthesis and Fabrication of Thermoresponsive Cross-linkable Poly(N-Isopropylacrylamide-Co-Glycidyl Methacrylate) Shahrooz Zargarian , Polish Academy of Sciences, Poland
12:05-12:25	19:05-19:25	Title: Nuclear Wave Function of Lithium in the Endohedral Fullerene Li+@C60 Surrounded by Anions Hideo Ando , Yamagata University, Japan
12:25-12:45	13:25-13:45	Title: Surface Chemistry of Ozone Studied by IR Spectroscopy Alexey Tsyganenko , St.Petersburg State University, Russian Federation
12:45-13:15		Lunch
13:15-13:35	12:15-12:35	Title: Topology of Active Site Geometries in HCP and FCC Nanoparticles and Surfaces Constantinos Zeinalipour-Yazdi , University of East London, United Kingdom
13:35-13:55	12:35-12:55	Title: Density Functional Theory for Assessment of Kinetic Reaction Behaviour of Polymers and Hybrid Materials Abeer Al Mohtar , University of Lisbon, Portugal
Keynote Presentations		
Session Chair		Mariana Pinteala, ICMPP, Romania
13:55-14:25	14:55-15:25	Title: Non-Viral Vectors-Based Polycations as Polyplexes for Gene Therapy. Design and Characterization Mariana Pinteala , ICMPP, Romania
14:25-14:55	14:25-14:55	Title: A Pyrolysis Product of Cellulose as a Chiral Building Block in the Synthesis of Bioactive Compounds Ines Mancini , University of Trento, Italy
14:55-15:25	15:55-16:25	Title: Cationic Polymers Enclosed in Supramolecular Architectures Aimed for Nucleic Acid Delivery Lilia Clima , ICMPP, Romania
15:25-15:55	10:25-10:55	Title: Increased Autophagy and Lipophagy by Trehalose in Liver and Heart of db/db Mice, Genetic Model of Diabetes Tatiana Korolenko , Research Institute of Neurosciences and Medicine, Russian Federation
15:55-16:10		Break

Chemeet Session-7: Medicinal Chemistry

16:10-16:30	17:10-17:30	Title: In Silico Analysis of The Mechanism of Interaction Between Peg Pei And Dna at an Atomistic Level In Silico Analysis of the Mechanism of Interaction between Peg Pei and Dna at an Atomistic Level Tudor Vasiliu , ICMPP, Romania
16:30-16:50	17:30-17:50	Title: Mucin: an Appealing Natural Polymer for the Fabrication of Scaffolds and Surfaces and with Biomedical Applications Andrada Serafim , University Politehnica of Bucharest, Romania
16:50-17:10	17:50-18:10	Title: Magnetic Nanoparticles as Platforms for Loading Natural Antioxidants and Their Cyclodextrin Inclusion Complexes Ana Lacramioara Lungoci , ICMPP, Romania
17:10-17:30	16:10-16:30	ECR: Natural Antioxidants and its Applications Towards Biomedical and Food Engineering Tielidy Angelina , Technological University of the Shannon: Midlands and Midwest, Ireland

Phone: +91 90001 45121, +91 76750 83208, Email: committee@chemeetconference.com, Web: chemeetconference.com
Elanva Private Limited; NO: 1-5-14, MVP Double Road, Visakhapatnam, AP, India 530017