

4<sup>th</sup> International

Athens, Greece

# **Chemistry Conference**

September 29 - October 01, 2025

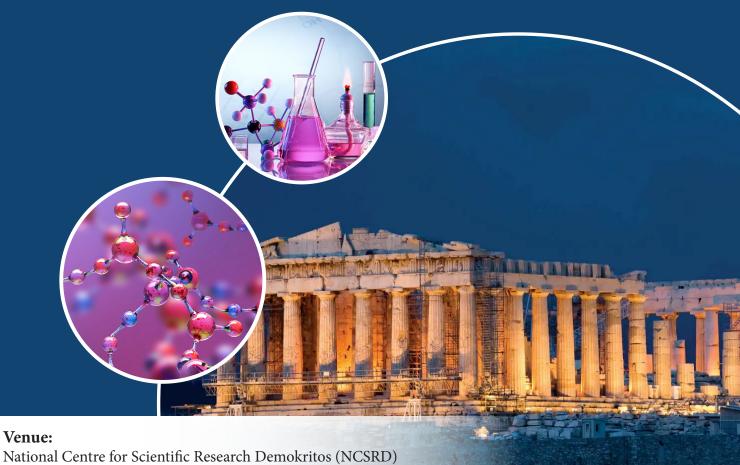
NCSRD, Athens, Greece

### IN COLLABORATION WITH









## **Welcome to NCSRD Chemeet 2025**

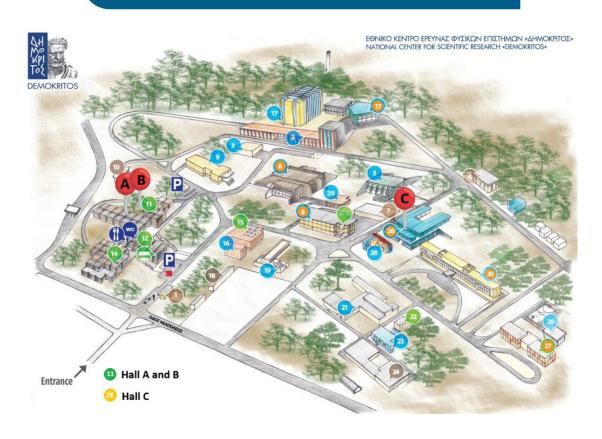
You are cordially invited by the Chemeet Committee to participate in Chemeet 2025, to be held in September 2025 at the National Centre for Scientific Research DEMOKRITOS in Athens, Greece. Over the past three years, Chemeet has established itself as a distinguished event on the international chemistry calendar, serving as a vital forum for scientific exchange and professional development. Chemeet 2025 is conceived as a dynamic platform that unites researchers, academicians, industry leaders, professional societies, associations, and emerging scholars from around the globe. By fostering meaningful dialogue and collaboration, the conference aims to strengthen the bonds within the chemical sciences community and to catalyze new partnerships across academia and industry. The program is thoughtfully designed to bridge the gap between academic research and industrial application, offering a comprehensive agenda that encompasses cutting-edge scientific presentations, interactive discussions, and networking opportunities. We are confident that the diverse content will be both informative and engaging, and we hope it will inspire you to contribute to the ongoing advancement of this vital field.

We look forward to welcoming you to Athens for an enriching and memorable experience at Chemeet 2025.

#### **Conference Chairs**

- · Maria Vasilopoulou, INN-NCSRD, Greece
- · Panagiotis Skandamis, Agricultural University of Athens, Greece

# **NCSRD Map**



### **#Chemeet2025 Presentation Instructions**

# **Speaker Guidelines**

- 1. The official language of the Conference and presentations is English. Regretfully there are no translators facilities available.
- 2. All the presenters are requested to stick to the time allotted for presentations and discussions. The session chair will intimate when you are left with 2 minutes.
- 3. All the presentations are recommended to be in PPT format and landscape orientation with a screen ratio of 16:9 is preferable.
- 4. It is recommended to send your presentations before the conference so that we can use them in case if you face any difficulty in using them during the conference
- 5. It is also recommended to copy your presentation on a flash drive and provide that to the organizer so that we can copy that before your presentation
- 6. It is recommended to compress the videos and HD images so that it won't take more time to load while presenting.

### **Poster Presentations:**

- 1. All the poster presenters should bring their posters printed for the conference. There are no printing services available at the conference venue. It is preferred to have the poster printed in colour.
- 2. The maximum poster size allowed is A0: 84.1 cm x 118.9 cm (33.1 inches x 46.8 inch-es).
- 3. The poster should be in a single page. The poster should have the title, small descrip¬tion, results, and conclusions.
- 4. You are allotted a specific number for your poster in the program, and you are advised to stick your poster at allotted place.



WIFI: NCSRD-GUEST
Password: #ncsrdemo#

# Day-1, September 29th, 2025

Conference Chair:	Maria Vasilopoulou, INN-NCSRD, Greece
Conference Chair:	Panagiotis Skandamis, Agricultural University of Athens, Greece
08:30-09:00	Conference Sign-in and Badge Pick-up
09:00-09:05	Welcome by the Conference Chairs, Dr Maria Vasilopoulou and Prof. Panagiotis Skandamis
09:05-09:20	Welcome & Introductory Comments by the Vice President of NCSRD, Dr. Vangelis Karkaletsis
09:20-09:30	Welcome by the President of the National Council for Research, Technology and Innovation, Dr George Nounesis

## Themis Kanellopoulos (HALL-A)

Session	Plenary Presentations@Themis Kanellopoulos (HALL-A)
Session Chair	Maria Vasilopoulou, INN-NCSRD, Greece
09:30-10:10	Title: Carbon-based Metal-free Electrocatalysts for Clean Energy and Green Chemistry
09:30-10:10	Liming Dai, University of New South Wales, Australia
10:10-10:50	Title: Reactive Oxygen Species (ROS) Research: Guardrails to Ensure Experimental Rigor
10:10-10:50	Binghe Wang, Georgia State University, USA
10:50-11:10	Refreshment & Coffee Break@Reception Area
11:10-11:40	Title: Subphthalocyanines: Singular Aromatic Non-planar and Chiral Molecules
11:10-11:40	Thomas Torres, Autonomous University of Madrid, Spain
11:40-12:10	Title: Chemical Transformations via Photocatalysis: Upgrading and Controlled Degradation
11.40-12.10	Kazuya Nakata, Tokyo University of Agriculture and Technology, Japan
Session	Keynote Presentations@Hall A
10:10 10:10	Title: Cellular Senescence: A New Target for Anti-ageing Therapies
12:10-12:40	Dimitris Kletsas, Institute of Biosciences and Applications, NCSRD, Greece
	Title: Neuromorphic Organic Devices as Building Blocks for Translational Neuroelectronics
12:40-13:10	Michele Di Lauro, Center for Translational Neurophisiology of Speech and Communication, Italian
	Institute of Tecnology_IIT@UNIFE, Italy
13:10-14:00	Lunch Break@Reception Area

### HALL-B

Session-1	Medical Chemistry@Hall B
Session Chair	Sotirios Christodoulou, University of Cyprus, Cyprus
	Title: Medical Informatics and Artificial Intelligence of the Hpa Axis and Stress System in Human
11:10-11:40	Health and Disease
	Vlachakis Dimitrios (Keynote), Agricultural University of Athens, Greece
	<b>Title:</b> Polyurea-crosslinked Biopolymer Aerogels: Tailored Nanostructured Materials for Enviromen-
11:40-12:10	tal and Biomedical Applications
	Patrina Paraskevopoulou (Keynote), National and Kapodistrian University of Athens, Greece
	Title: Water-soluble Platinum(II) Imidazole- and Nucleoside-based Complexes: Design, Synthesis,
12:10-12:35	Characterization, and Selective Anticancer Activity
	Michele Benedetti (Invited), University of Salento, Italy
12:35-12:55	Title: Analytical QbD and Greenness Applications to Biotechnological Drug Determination through
	Liquid Chromatography
	Sena Caglar-Andac, Istanbul University, Turkey
12:55-14:00	Lunch Break@Reception Area

Session-2	Chemistry & Its Applications@Hall B
Session Chair	Michael Arkas, NCSRD, Greece
Session Chair	Kosmas Ellinas, University of the Aegean, Greece
14:00-14:25	Title: Nanoarchitectures of Organic Molecules on Surfaces
	Anthoula Papageorgiou (Invited), National and Kapodistrian University Of Athens, Greece
14:25-14:50	Title: Functional Surfaces and Devices Fabricated by Micro and Nanotechnology Methods
	Kosmas Ellinas (Invited), University of the Aegean, Greece
	Title: Synthesis of Green Near-infrared Colloidal Quantum Dots and the Development of Recycling
14:50-15:15	Protocols
	Sotirios Christodoulou (Invited), University of Cyprus, Cyprus
45.45.45.40	Title: Engineering Gold Nanomaterials: From Nanoclusters to Supraparticles
15:15-15:40	Claudia Pigliacelli (Invited), Polytechnic University of Milan, Italy
45 40 40 00	Title: SIEVE: Structural Identification and Extraction Via Embedded Graphs
15:40-16:00	Chiara Picarelli (Invited), Polytechnic University of Milan, Italy
16:00-16:20	Refreshment & Coffee Break@Reception Area
	Title: Multifunctional Silica-cyclodextrin Xerogels Designed for Adsorbing and Catalytically Decom-
16:20-16:45	posing Hazardous Substances in Both Gas and Liquid Phases
	Michael Arkas (Invited), INN-NCSRD, Greece
	Title: Nuclear Magnetic Resonance (NMR) Spectroscopy in Analytical Chemistry: A Glimpse of the
16:45-17:10	Plethora of Capabilities and Tools
	Constantinos G. Tsiafoulis (Invited), University of Ioannina, Greece
	Title: Destroying Carbenes: C-N Bond Oxidative Cleavage as a Route to Ni(II) and Ni(I) Complex-
17:10-17:35	es
	Nikolaos Tsoureas (Invited), National and Kapodistrian University of Athens, Greece
	Title: Physico-chemical Properties and Climate Impacts of Aerosol Particles in the Atmosphere,
17:35-18:00	Biosphere and Oceans
	Kaori Kawana (Invited), Institute of Chemical Engineering Sciences, ICE-HT/FORTH, Greece
	Title: Synthesis and Physiocochemical Characterization of Advanced Systems for Photocatalytic
18:00-18:20	Applications
	Andreas Katsamitros, University of Ioannina, Greece
	Title: Cellulose Acetate-derived Carbon Pellets for High-density Hydrogen Storage
18:20-18:40	Hiroshi Matsutaka, RIKEN, Japan
	Title: Macroalgea as Sustainable Bioactive Compound Sources: Chemical Composition of Ulva
18:40-19:00	rigida C.Agardh.
10.40-19.00	
16.40-19.00	Pelin Koseoglu-Yilmaz, Istanbul University, Turkey



# Day-2, September 30th, 2025

## Themis Kanellopoulos (HALL-A)

Session	Plenary Presentations@Themis Kanellopoulos (HALL-A)
Session Chair	Andreas Kaltzoglou, National Hellenic Research Foundation, Greece
09:00-09:40	Title: Laser Engineering of Materials and Diagnostics
09.00-09.40	Emmanuel I. Stratakis, Foundation for Research and Technology Hellas, Greece
	Title: Water-based Reactive Copolymers and Microcapsules for Functional Membranes and Coat-
09:40-10:20	ings
	Joannis Kallitsis, University of Patras, Greece
	Title: Nanostructured Materials as Drug Delivery Vehicles to Treat Cancer, Cardiovascular and
10:20-11:00	Other Diseases
	Hermis latrou, National and Kapodistrian University of Athens, Greece
11:00-11:20	Refreshment & Coffee Break@Reception Area
11:20-11:50	Title: From Causality to Teleology: Quantitative Microbiology Versus Artificial Intelligence
11.20-11.50	Panagiotis Skandamis, Agricultural University of Athens, Greece
11:50-12:30	Title: Design and Development of Next-Generation Theranostics for Cancer
11.50-12.50	Andreas Tzakos (Virtual), University of Ioannina, Greece
	Title: Next Generation Food and Safety Assessment: From Conventional Control & Classical Pre-
12:30-13:00	dictive Modeling to Internet of Foods
	George Nychas (Keynote-Virtual), Agricultural University of Athens, Greece
13:00-13:25	Title: Novel Polymers for Nanotechnology Applications
13.00-13.25	Apostolos Avgeropoulos (Keynote-Virtual), University of Ioannina, Greece
13:25-14:30	Lunch Break@Reception Area

### **HALL-B**

Session-3	Medicine & Biotechnology@Hall B
Session Chair	Labrini Sygellou, Institute of Electronic Structure and Laser, IESLFORTH, Greece
	Title: Translational Perspectives on RANKL:Mouse Models and Targeted Therapies for Bone and
11:20-11:45	Cancer Pathologies
	Eleni Douni (Invited), Agricultural University of Athens, Greece
	Title: Applying Biophysics and Molecular Simulations toward the Discovery of Potent Ligands Tar-
11:45-12:10	geting the Epigenetic Module UHRF1
	Vassilios Myrianthopoulos (Invited), National and Kapodistrian University of Athens, Greece
	<b>Title:</b> Crystal Structures and Properties of Mononuclear Complexes of Antibiotics Salinomycin and
12:10-12:35	Monensin
	Ivayla Pantcheva, Sofia University St. Kliment Ohridski, Bulgaria
	Title: Optimizing Transdermal Delivery of Natural Bioactives via Enzyme-engineered Composite
12:35-13:00	Hydrogels
	Eleftheria Diamanti (Invited), National Hellenic Research Foundation, Greece
13:00-13:25	Title: Targeting Gastrointestinal Disorders with Gaseous Molecule-releasing Prodrugs.
	Marcin Magierowski (Invited), Jagiellonian University Medical College, Poland
13:25-14:30	Lunch Break@Reception Area



Session-4	Materials Chemistry@Hall B
Session Chair	Eleftheria Diamanti, National Hellenic Research Foundation, Greece
Session Chair	Vassilios Myrianthopoulos, National and Kapodistrian University of Athens, Greece
	Title: Structural Interrelations of Belite and Alite Polymorphs, Interpreted via an Alternative Cat-
14:30-15:00	ion-Arrangement Model Resembling the Topology of Alloy Packing
	Vasilis Psycharis (Keynote), National Center for Scientific Research Demokritos, Greece
	Title: Polymer Nanocomposites: Correlating Structure with Properties
15:00-15:30	Kiriaki Chrissopoulou (Keynote), Institute of Electronic Structure and Laser, IESL-FORTH,
	Greece
15:30-16:00	Title: Chiral Molecular Materials: From Molecular Magnets to Metallodrugs
13.30-10.00	Catherine Raptopoulou (Keynote), National Center for Scientific Research Demokritos, Greece
16:00-16:25	Title: Interfacial Investigation of Metals (Pd, Co) with MoS2 and MoS2-rGO Hybrids
10.00-10.25	Labrini Sygellou (Invited), Institute of Electronic Structure and Laser, IESL-FORTH, Greece
16:25-16:45	Refreshment & Coffee Break@Reception Area
16:45-17:10	Title: Semiconducting Tin Clathrates for Thermoelectric Applications
10.45-17.10	Andreas Kaltzoglou (Invited), National Hellenic Research Foundation, Greece
17:10-17:30	Title: Porphyrin Hybrids as Photocatalysts for Water Remediation and Solar Fuels
17.10-17.50	Kalliopi Ladomenou (Invited), Democritus University of Thrace, Greece
17:30-18:00	Title: Iron-based Oxides for Clean Energy: Insights from DFT Calculations
17.50-10.00	Elena Arroyo (Invited), The Complutense University of Madrid, Spain
18:00-18:20	Title: Plant Flavonoids as Heme Oxygenase Inducers and Carbon Monoxide Releasers
10.00-10.20	Libor Vitek, Charles University, Czech Republic
	Title: Synthesis, Characterization, and Computational Evaluation of 4-bromohomatropine for Po-
18:20-18:40	tential Pharmacological Application
	Davis Presley, Sri Sivasubramaniya Nadar College of Engineering, India

# LECTURE ROOM (HALL-C)

Session-5	SUPERLASER WORKSHOP@LECTURE ROOM (HALL-C)
Session Chair	Michael Arkas, NCSRD, Greece
14:30-14:50	Title: Superradiance from Halide Perovskites
	Maria Vasilopoulou, National Center for Scientific Reasearc Demokritos, Greece
14:50-15:10	Title: Tailoring Optical and Structural Characteristics of Halide Perovskites: A Comparative Analysis
	of Single Crystals and Thin Films
	Anastasia Soultati (Invited), INN-NCSRD, Greece
15:10-15:30	Title: Photophysics of Air Processed, Porphyrin Modified, Metal Halide Perovskite Thin Films.
	Leonidas Palilis (Invited), University of Patras, Greece
15:30-15:50	Title: Synthesis and Properties of Perovskite Single Crystals
	Apostolis Verykios (Invited), INN-NCSRD, Greece
15:50-16:10	Title: Chemical Vapor Deposition of Silicon Films on Metallic Filaments. Computer Aided Design of
	the Process and Initial Experimental Results.
	Dimitris Davazoglou (Invited), INN-NCSRD, Greece
16:10-16:30	<b>Title:</b> Unveiling 1T-TaS <sub>2</sub> Phase Transitions and Interfacial Charge Transfer in Hybrid Perovskite
	Systems
	Georgios Chatzigiannakis, National Center for Scientific Research Demokritos, Greece
16:30-17:00	Refreshment & Coffee Break@Reception Area
20:00 Onwards	SOCIAL DINNER

# Day-3, October 01st, 2025

# Themis Kanellopoulos (HALL-A)

Session	Plenary Presentations@Themis Kanellopoulos (HALL-A)
Session Chair	Emmanuel Kymakis, Hellenic Mediterranean University, Greece
Session Chair	Georgios Vougioukalakis, National and Kapodistrian University of Athens, Greece
09:00-09:40	Title: Graphene And Layered Materials For Photonics and Quantum Technology
	Andrea Ferrari, University of Cambridge, UK
09:40-10:10	Title: Graphene "Cousins" Silicene and Germanene and New Perspectives
	Athanasios Dimoulas, National Center for Scientific Reasearc Demokritos, Greece
10:10-10:30	Refreshment & Coffee Break@Reception Area
	Title: From Crystal Engineering to Device Fabrication: Guided Design and Optimization of Crystal-
10:30-11:10	line Hybrid Materials
	Jing Li, The State University of New Jersey, USA
11:10-11:40	Title: Polymer and Ion Dynamics During Flow in Nanopores. Doing GPC Without a Solvent
	George Floudas, University of Ioannina, Greece
Session	Keynote Presentations@HALL A
Session	Keynote Presentations@HALL A  Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's
<b>Session</b> 11:40-12:10	
	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's
11:40-12:10	<b>Title:</b> 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks
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11:40-12:10	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks  Emmanuel Kymakis, Hellenic Mediterranean University, Greece  Title: Plasma Surface Engineering for Smart Polymers, New Membranes and Smart Devices
11:40-12:10 12:10-12:40	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks  Emmanuel Kymakis, Hellenic Mediterranean University, Greece  Title: Plasma Surface Engineering for Smart Polymers, New Membranes and Smart Devices  Evangelos Gogolides, National Center for Scientific Research Demokritos, Greece
11:40-12:10 12:10-12:40	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks  Emmanuel Kymakis, Hellenic Mediterranean University, Greece  Title: Plasma Surface Engineering for Smart Polymers, New Membranes and Smart Devices  Evangelos Gogolides, National Center for Scientific Research Demokritos, Greece  Invited Presentations@HALL A
11:40-12:10 12:10-12:40 Session	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks  Emmanuel Kymakis, Hellenic Mediterranean University, Greece  Title: Plasma Surface Engineering for Smart Polymers, New Membranes and Smart Devices  Evangelos Gogolides, National Center for Scientific Research Demokritos, Greece  Invited Presentations@HALL A  Title: All-printed Carbon-based Bifacial Perovskite Solar Cells: Towards Scalable, Industrially Via-
11:40-12:10 12:10-12:40 <b>Session</b> 12:40-13:05	Title: 2D Materials-enabled Energy Harvesting Technologies Across Different Demonstrator's Scales: From Powering Miniaturized lot Devices to Large Scale PV Parks  Emmanuel Kymakis, Hellenic Mediterranean University, Greece  Title: Plasma Surface Engineering for Smart Polymers, New Membranes and Smart Devices  Evangelos Gogolides, National Center for Scientific Research Demokritos, Greece  Invited Presentations@HALL A  Title: All-printed Carbon-based Bifacial Perovskite Solar Cells: Towards Scalable, Industrially Viable Photovoltaics
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### **HALL-B**

Session-6	Food, Bio & Polymer Chemistry@HALL B
Session Chair	Panagiotis Skandamis, Agricultural University of Athens, Greece
Session Chair	Nikolaos Chorianopoulos, Agricultural University of Athens, Greece
10:40-11:05	Title: Obtaining Bioactive Compounds from Plant Byproducts to Produce Nanocosmetics
	Charalampos Proestos (Invited), National and Kapodistrian University of Athens, Greece
	Title: Oligosaccharide-based Supramolecular Complexes for Drug Delivery Systems: A Molecular
11:05-11:30	Dynamics Study
	Giuseppina Raffaini (Invited), Polytechnic University of Milan, Italy
	Title: Non-invasive Spectroscopic Instruments Combined with Al Tools And Information Technolo-
11:30-11:55	gies: Advances in Science and Technology Enhance the Digitalization of the Food Supply Chain
	Nikolaos Chorianopoylos (Invited), Agricultural University of Athens, Greece
	Title: Unveiling how Wine Consumption Shapes the Human Plasma Metabolome: Evidence from a
11:55-12:25	Short-term Controlled Trial
	Marilena Dasenaki (Invited), National and Kapodistrian University of Athens, Greece
12:25-12:50	Title: Multifunctional Nanoparticles as Platforms for Theranostic Applications
	Eleni Efthimiadou (Keynote), National and Kapodistrian University of Athens, Greece
	Title: Functional Nanocomposite Materials: Lithographic Patterning of Metal Oxide-Polymer Hy-
12:50-13:15	brids
	Margarita Chatzichristidi (Invited), National and Kapodistrian University Of Athens, Greece
13:15-14:10	Lunch & Posters Display@Reception Area
Session-7	Organic Chemistry@HALL B
Session Chair	Christos Chochos, National Hellenic Research Foundation, Greece
4.40.44.40	
14:10-14:40	Title: Multicomponent Reactions: Creating Complexity via Sustainable Catalytic Transformations
14:10-14:40	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece
14:10-14:40	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece  Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future
	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece  Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future  Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece
	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells
14:40-15:05	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells Xiaoliang Wang (Invited), Harbin Institute of Technology, China
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14:40-15:05 15:05-15:30 15:30-15:50	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece  Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece  Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells Xiaoliang Wang (Invited), Harbin Institute of Technology, China  Title: Engineering Functional Materials by Combining Halogen Bonding and Fluorous Effect Gabriella Cavallo (Invited), Polytechnic University of Milan, Italy
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14:40-15:05 15:05-15:30 15:30-15:50 15:50-16:10 Session-8	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece  Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece  Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells Xiaoliang Wang (Invited), Harbin Institute of Technology, China  Title: Engineering Functional Materials by Combining Halogen Bonding and Fluorous Effect Gabriella Cavallo (Invited), Polytechnic University of Milan, Italy  Refreshment & Coffee Break@Reception Area  Optoelectronic Devices@Hall B
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14:40-15:05 15:05-15:30 15:30-15:50 15:50-16:10 Session-8	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece  Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece  Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells Xiaoliang Wang (Invited), Harbin Institute of Technology, China  Title: Engineering Functional Materials by Combining Halogen Bonding and Fluorous Effect Gabriella Cavallo (Invited), Polytechnic University of Milan, Italy  Refreshment & Coffee Break@Reception Area  Optoelectronic Devices@Hall B  Nikos Kehagias, NCSRD, Greece  Title: New Shortwave Infrared Conjugated Polymers for High Performance Organic Photodetectors and Ambipolar Phototransistors
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14:40-15:05  15:05-15:30  15:30-15:50  15:50-16:10  Session-8  Session Chair  16:10-16:40	Georgios Vougioukalakis (Keynote), National and Kapodistrian University of Athens, Greece Title: Thirty Years of Nanoimprint Lithography: Pioneering Nanomanufacturing for the Future Nikos Kehagias (Invited), National Center for Scientific Research Demokritos, Greece Title: Dynamic Life-like Behavior of Polymer-based Artificial Cells Xiaoliang Wang (Invited), Harbin Institute of Technology, China Title: Engineering Functional Materials by Combining Halogen Bonding and Fluorous Effect Gabriella Cavallo (Invited), Polytechnic University of Milan, Italy  Refreshment & Coffee Break@Reception Area  Optoelectronic Devices@Hall B  Nikos Kehagias, NCSRD, Greece Title: New Shortwave Infrared Conjugated Polymers for High Performance Organic Photodetectors and Ambipolar Phototransistors  Christos Chochos (Keynote), National Hellenic Research Foundation, Greece Title: Theoretical Insights into Lead-free Zirconium Halide Defect Perovskites and Carbon-doped
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	POSTER PRESENTATIONS
D4	Title: Evaluation of a Prototype Sensor Array for the Rapid Assessment of Beef Meat Spoilage
P1	Marilena Rizou, National Center for Scientific Research Demokritos, Greece
P2	Title: Quantum Chemical, Spectroscopic and In silico (Molecular Docking, Molecular Dynamic and
	ADME) Studies on Anti-Aging Pentapeptide-3 (Vialox®)
	Dilan Akhan, Istanbul University, Turkey
P3	Title: Design of Self-Assembling Antimicrobial Peptides Guided By Molecular Dynamics
	Flavia Borrelli, Polytechnic University of Milan, Italy
	Title: Innovative Materials and Process Engineering for High-performance Silicon and Hybrid Pho-
P4	tovoltaics
	Zoi Georgiopoulou, National Center for Scientific Research Demokritos, Greece
P5	<b>Title:</b> Heterometallic Cu/Ln Complexes Containing [Cu4-xLnxO4] (x = 1,2) Cubane Subunits
	Despina Dermitzaki, National Center for Scientific Research Demokritos, Greece
P6	Title: Functional Bacterial Cellulose Membranes via Imprinting and Surface Chemistry Modification
	Iliana Ntovolou, University of the Aegean, Greece
	Title: Synthesis and Characterization of Zn3in2s6-based Systems with Mixed Metal Oxides To-
P7	wards Photocatalytic Orange G Dye Degradation
	Andreas Katsamitros, University of Ioannina, Greece
	Title: Computational Modeling of Antiepilepsy Perampanel: From Conformational Analysis to SERS
P8	Spectra
	Chiara Picarelli, Polytechnic University of Milan, Italy
	Title: Unveiling Alternate Electrodes Electrolysis in Electro-photochemical and Electro-organic
P9	Synthesis
	Subhankar Bera, Shiv Nadar Institution of Eminence, India
P10	Title: Nanoimprint Lithography for Advanced Photonics and Radiative Cooling Applications
	Margarita Panagiotopoulou, National Center for Scientific Research Demokritos, Greece
P11	<b>Title:</b> Ionically Tuned Hybrid Memristors Based on Perovskite-MoS <sub>2</sub> Materials
	Katerina Maskanaki, University of Ioannina, Greece
	<b>Title:</b> Sustainable Lithographic Processes with Sulfonium Based Pags: Evaluation in PHEMA and
P12	Negative Tone Imaging in Chitosan Films
	Veroniki Vidali, National Center for Scientific Research Demokritos, Greece
Die	<b>Title:</b> Radiative Cooling with Transparent Microstructured Polymer Film Fabricated by Nanoimprint
P13	Lithography
	Nefeli Dimogerontaki , National Center for Scientific Research Demokritos, Greece
P14	<b>Title:</b> Chemical Vapor Deposition of Silicon Films on Metallic Filaments
	Ioannis G. Aviziotis (Invited), National Technical University of Athens, Greece
_	Title: Oxygen Vacancy-controlled Resistive Switching in Amorphous Molybdenum Oxide Memris-
P15	tors
	Anastasia Soultati (Invited), National Center for Scientific Research Demokritos, Greece
P16	Title: KA2 Polycondensation: A Novel Polymerization Reaction
	Dimitrios Giannopoulos, National and Kapodistrian University of Athens, Greece
P17	<b>Title:</b> LbL and ALD-Modified Membranes for Cost-Effective CO <sub>2</sub> Separation and
	Dehydrogenation processes
	Georgios Pilatos, National Center for Scientific Research Demokritos, Greece



P18	Title: Phase Separation in LiFe5-xMnxO8 Studied by X-ray Diffraction and Mössbauer Measure-
	ments
	Vassilis Panagopoulos, National Center for Scientific Research Demokritos, Greece
P19	Title: Next Generation Photovoltaics
	Maria Vasilopoulou, National Center for Scientific Research Demokritos, Greece
P20	Title: Stability Data Analysis for Silicon Solar Cells
P20	Nikolaos Andreopoulos, National Technical University of Athens, Greece
D04	Title: Merging Materials for Neuromorphic Computing
P21	Constantinos Davazoglou, National Center for Scientific Research Demokritos, Greece
Doo	Title: The Green Future of Materials: Functional Biopolymeric Surfaces
P22	Zeta Stavromitrou, National Center for Scientific Research Demokritos, Greece
	Title: Azimuthally Inhomogeneous Dielectric Cylinders for Extreme Beam Steering and Metagrat
P23	ing Applications
	Nickolas Christou, National and Kapodistrian University of Athens, Greece
	Title: High-performance Supercapacitors based on MnO2 / Activated Carbon and Carbon Black
P24	Nanocomposites
	Borhan Albiss, Jordan University of Science and Technology, Jordan
	Title: Thermophysical Characterization of a New Potential Oxigenate Fuel (Formed by Diethyl
P25	Carbonate and Ethanol) and One Ternary Mixture
	Ariel Hernández, Universidad de Las Américas, Chile
P26	Title: Low-temperature Synthesis of highly luminescent AgInS2-Zn Quantum Dots for De-
	vice-Grade Semiconductor Inks
	Apostolos Kalafatis, National Center for Scientific Research Demokritos, Greece
P27	Title: Alkahest-Processed SnSe2 Thin Films: Tailoring Thermoelectric Properties via ZnO
	Nanoparticle Incorporation
	Roupen Vartian, National Center for Scientific Research Demokritos, Greece
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# **Contact Details:**

#### Dr. Maria Vasilopoulou

Institute of Nanoscience and Nanotechnology, NCSRD

Email: m.vasilopoulou@inn.demokritos.gr

Phone: +30 6957306494

## **Venue Details**

Address: Patr. Gregoriou E & 27 Neapoleos Str

15341, Agia Paraskevi Athens, Greece

**Phone:** +30 210 6503000

Email: communications@central.demokritos.gr

Official Website: www.demokritos.gr

