



Wednesday, September 2

8:30 – 10:00	Registration with welcome coffee
10:00 – 10:15	Opening ceremony

Session 1 (chairman: Mato Knez)	
10:15 – 10:45	Tamar Segal Peretz (invited) , <i>Technion- Israel Institute of Technology, Israel</i> Controlled Growth Within and On Polymers: Vapor-Phase Routes for Durable Environmental Materials
10:45 – 11:15	Mark Losego (invited) , <i>Georgia Institute of Technology, USA</i> Approaches for Elucidating the Physicochemical Structure of Organic-Inorganic Hybrids Synthesized via Vapor Infiltration of Polymers
11:15 – 11:45	Michael Nolan (invited) , <i>University College Cork, Ireland</i> Mechanisms of Hybrid Atomic Level Processing
11:45 – 12:00	Helle-Mai Piirsoo , <i>Institute of Electrical Engineering, Slovakia</i> Residual Gas Analysis of Atomic Layer Deposition on Powders

12:00 – 13:30	Lunch break
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Session 2 (chairman: Iva Saric Jankovic)	
13:30 – 14:00	Gabriele Seguini (invited) , <i>IMM-CNR, Unit of Agrate Brianza, Italy</i> Sequential Infiltration Synthesis for Organized Nanostructure Fabrication
14:00 – 14:30	John Conley (invited) , <i>Oregon State University, USA</i> Microwave Enhanced Atomic Layer Processing
14:30 – 14:45	Zsófia Baji , <i>Centre for Energy Research, Hungary</i> Precursor–Surface Interactions Governing ALD: A DFT Study of Hf Precursors and Co-Reactants on MoS ₂
14:45 – 15:00	Dea Fackovic Volcanjk , <i>Stanford University, USA</i> Sequence Matters: Tailoring Al- and Hf-Based Oxide Dielectrics on Monolayer MoS ₂
15:00 – 15:15	Jean-Francois de Marneffe , <i>imec, Belgium</i> Plasma etching for defectivity reduction: the example of TiO ₂ area-selective deposition

15:15 – 15:45	Coffee break
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Session 3 (chairman: David Bergsman)

15:45 – 16:00	Wenwen Wang , <i>CIC nanoGUNE, Spain</i> Hybrid metallosaccharide films for protecting wood from environmental damage
16:00 – 16:30	Alex B. F. Martinson (invited) , <i>Argonne National Laboratory, USA</i> Vapor Deposition of Molecularly Defined Multi-Metal Clusters for Energy Conversion and Photocatalysis ONLINE

Session 4 (chairman: Tamar Segal-Peretz)

16:30 – 17:00	Ruoke Cai (invited) , <i>Israel Institute of Technology, Israel</i> Molecular Layer Deposition of Polyamide Membranes for Selective Water and Ion Transport
17:00 – 17:30	Harpreet Sondhi (invited) , <i>University of Twente, Netherlands</i> Atomic and molecular layer deposition engineered ceramic membranes for nanofiltration and solvent-resistant nanofiltration
17:30 – 18:00	Jolke Perelaer (invited) , <i>Wiley-VCH GmbH, Germany</i> Wiley workshop: How to publish in high-impact (factor) journals?

18:00 – 20:00 Poster session and social program

Shani Monadeev , <i>Israel Institute of Technology, Israel</i> Promoting the synthesis of sustainable aviation fuels (SAFs) over exposed heterointerfaces
Babiker Omer , <i>University of Nottingham, UK</i> Nanoscale Probing of Electrical Breakdown in Ultra-Thin ALD Layers Using High-Voltage Conductive AFM
Noam Lerner , <i>Israel Institute of Technology, Israel</i> Reaction–Diffusion Modelling of Vapor Phase Infiltration in Block Copolymer Thin Films
Teresa Elenes-Cervantes , <i>Instituto de Microelectrónica de Barcelona, Spain</i> Vapor Phase Infiltration in PS-b-PMMA Thin Films: Role of Morphology and Temperature
Slim Hussein , <i>Centre National de la Recherche Scientifique, France</i> Vapor Phase Infiltration for SWCNT Filling
Ofer Burg , <i>The Hebrew University of Jerusalem, Israel</i> Towards Bimetallic Nanowire Arrays with Controlled Compositions Using Block Copolymer Films: The Interplay Between Metal Precursors
Sara Pakseresht , <i>Aalto University, Finland</i> Atomic Layer Deposition for Stabilizing Lithium Metal Interfaces in Next-Generation Lithium Batteries
Zsófia Baji , <i>Centre for Energy Research, Hungary</i> Hybrid Hafnicon Thin Films for Moisture-Responsive Dielectric Applications
Ivna Kavre Piltaver , <i>University of Rijeka, Faculty of Physics, Croatia</i> Enhanced Solar-Light Photocatalysis of Cu-Doped ZnO Thin Films on Self-Ordered Porous Anodized Substrates
Ivana Jelovica Badovinac , <i>University of Rijeka, Faculty of Physics, Croatia</i> Atomic Layer Deposition of Hybrid TiO ₂ -Cu Nanocomposites for Solar Photocatalysis
Robert Peter , <i>University of Rijeka, Faculty of Physics, Croatia</i>

ZnO Thin Films with Embedded Copper Nanoparticles as Plasmonic Photocatalysts for Solar-Driven Wastewater Treatment

Mattea Mačkić Jovanović, *University of Rijeka, Faculty of Physics, Croatia*

Growth Temperature-Dependent Microstructural Properties of SnO₂ Thin Films Deposited by ALD and PEALD

Thursday, September 3

Session 5 (chairman: Mark Losego)

09:00 – 09:30 **Nari Jeon (invited)**, *Chungnam National University, Republic of Korea*
Inorganic-Mediated Crosslinking in Hybrid Resists via Sequential Infiltration Synthesis **ONLINE**

09:30 – 09:45 **Silvia Armini**, *imec, Belgium*
Area-selective deposition of metal oxides leveraging polymeric materials as non-growth areas

09:45 – 10:00 **Eden Elazar**, *Technion -IIT, Israel*
Enhancing Composite Materials Performance at Elevated Temperatures Using Atomic Layer Deposition

10:00 – 10:15 **Silvia Mirallas García**, *CIC nanoGUNE BRTA, Spain*
Sub-surface patterning of polymers with inorganics by area-selective vapor phase infiltration

10:15 – 10:30 **Haowen Hu**, *Instituto de Microelectrónica de Barcelona: Cerdanyola del Valles, Spain*
Enabling High-Resolution Nanopatterning via Vapor phase infiltration of Perpendicularly oriented PS-b-PLA

10:30 – 10:45 **Francesco Bignoli**, *IMM-CNR, Unit of Agrate Brianza, Italy*
Operando sequential infiltration synthesis of PLA films and PS-b-PLA lamellae across different temperatures for lithographic applications

10:45 – 11:15 **Coffee break**

Session 6 (chairman: John Conley)

11:15 – 11:45 **Rong Chen (invited)**, *Huazhong University of Science and Technology, China*
Atomic Layer Infiltration-Enabled Encapsulation Strategies for Stable Stretchable Electronics

11:45 – 12:15 **Oksana Yurkevich (invited)**, *CIC nanoGUNE, Spain*
Vapor phase infiltration for self-healing of semiconducting materials

12:15 – 12:30 **Mari Heikkinen**, *Aalto University, Finland*
Atomic/molecular layer deposition of metal ethenetetrathiolate thin films for thermoelectric applications

12:30 – 14:45 **Umaid M. Lone**, *Aalto University, Finland*
Engineered Inverse Opals for Growth of Nanostructured Ti-Organic Thin Films via Atomic/Molecular Layer Deposition

12:45 – 13:00	Jean-Francois de Marneffe , <i>imec, Belgium</i> High-Fidelity Nanoscale Patterning of MgZnO via Atomic Layer Etching for Advanced Device Integration
13:00 – 13:15	Anil Yadav , <i>Indian Institute of Science, India</i> Low Temperature Atomic Layer Deposition of ZnO for Optoelectronic Applications
13:15 – 14:30	Lunch break
14:30 –	Social program

Friday, September 4

Session 7 (chairman: Michael Nolan)	
09:00 – 09:30	Jan M. Macak (invited) , <i>University of Pardubice, Czech Republic</i> Vapor Phase Infiltration of ZnO nanocrystals into biodegradable fibers for dermatologic applications
09:30 – 10:00	David Bergsman (invited) , <i>University of Washington, USA</i> Overcoming Embrittlement in Vapor Phase Infiltration
10:00 – 10:15	Roman Parkhomenko , <i>CIC nanoGUNE, Spain</i> Vapour-Phase TiO ₂ Modification of PEEK Cages: Subsurface Characterisation and Biological Performance
10:15 – 10:30	Martina Rihova , <i>University of Pardubice, Czech Republic</i> Comparison of ALD and VPI for TiO ₂ deposition on centrifugally spun fibers for photocatalytic applications
10:30 – 10:45	Michele Perego , <i>IMM-CNR, Unit of Agrate Brianza, Italy</i> Alumina Infiltration into Polymer Thin Films: Insights from Operando Spectroscopic Ellipsometry
10:45 – 11:15	Coffee break

Session 8 (chairman: Rong Chen)	
11:15 – 11:45	Stacey Bent (invited) , <i>Stanford University, USA</i> The Power of Molecular Design in MLD of Hybrid Materials for EUV Lithography
11:45 – 12:15	Maarit Karppinen (invited) , <i>Aalto University, Finland</i> ALD/MLD for Unique Functional Materials
12:15 – 12:30	Olga Partanen , <i>Aalto University, Finland</i> Area-Selective Atomic/Molecular Layer Deposition on Polymer Substrates: Utilizing Intrinsic Surface Chemistry for Low-Temperature Patterning
12:30 – 12:45	Oren Ben Porat , <i>Technion- Israel Institute of Technology, Israel</i> MLD as a Platform to Probe How the Spatial Arrangement of Polyamide Density Governs Membrane Transport

12:45 – 14:00	Lunch break
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Session 9 (chairman: Robert Peter)	
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14:00 – 14:15	Luis Pinto , <i>Entalpic, France</i> Steerable generative AI for the multi-objective identification of novel ALD precursors
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14:15 – 14:30	Anthony Tacnet , <i>University Claude Bernard Lyon, France</i> High-quality piezoelectric LiNbO ₃ thin films grown by DLI-CVD enabled by patented fluorinated precursors
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14:30 – 15:00	Chang-Yong Nam (invited) , <i>Brookhaven National Laboratory, USA</i> Emerging Reaction Pathways in Vapor-Phase Infiltration in Polymers ONLINE
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15:00 – 15:30	Closing ceremony
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