



TENTATIVE PROGRAM (as of 18/11/2025)

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P: Plenary / K: Keynote / I: Invited / O: Oral

MONDAY NOVEMBER 17, 2025

08:00-08:45	Registration	
08:45-09:15	Opening Ceremony	
Chairperson: Costas Galiotis (FORTH/ ICE-HT & Univ. of Patras, Greece) / Room: Main Auditorium (C Building)		
09:15-09:45	Zhongfan Liu (BGI/Peking University, China) Super Graphene-Skinned Materials: Concept, Synthesis and Applications	K
09:45-10:15	Yury Gogotsi (Drexel University, USA) MXenes – What are the Next Steps Toward Scale-Up and Applications?	K
10:15-11:15	Coffee Break / Poster Session / Exhibition	
Chairperson: Yury Gogotsi (Drexel University, USA) / Room: Main Auditorium (C Building)		
11:15-11:45	Costas Galiotis (FORTH/ ICE-HT and University of Patras, Greece) Graphene and 2D Materials Mechanics: From Intrinsic Limits to Composites Reality	K
11:45-12:00	Dalaver Anjum (Khalifa University, United Arab Emirates) MoS2-Based 2D Nanocomposites for Energy Storage Applications	O
12:00-12:30	Pablo Ordejon (ICN2, Spain) Understanding electrified electrolyte/electrode interfaces from atomistic simulations	K
12:30-14:00	Cocktail Lunch (offered by I2DM2025 organisers)	
14:00-14:30	Poster Session I / Exhibition	
Chairperson: Cinzia Casiraghi (University of Manchester / GEIC, UK) / Room: Main Auditorium (C Building)		
14:30-15:00	Rodney S. Ruoff (Center for Multidimensional Carbon Materials / UNIST, South Korea) Carbon and boron nitride materials: basic science and broader impact	K
15:00-15:30	Francesco Bonaccorso (BeDimensional, Italy) Industrial production of novel 2D materials for energy and sensing technology	K
15:30-16:00	Ahmed Al-Ostaz (The University of Mississippi/CGRI, USA) Barriers & Opportunities for Graphene and Graphene-Like Materials in Smart and Innovative Infrastructure	I
16:00-16:15	Rupa Darji (BASF Corporation, USA) Bio-inspired Photonic Microspheres: Controlling Light with a New Optical Technology	O
16:15-16:30	Georgii Ermolaev (XPANCEO, United Arab Emirates) Giant optical anisotropy and high refractive index in van der Waals materials	O
16:30-17:15	Coffee Break / Poster Session / Exhibition	
Chairperson: Pablo Ordejon (ICN2, Spain) / Room: Main Auditorium (C Building)		
17:15-17:45	Kostas Kostarelos (ICN2/ICREA (Spain) and University of Manchester (UK)) Clinical Translation Pathway of Advanced Materials: The Graphene Paradigm	K
17:45-18:15	Cinzia Casiraghi (University of Manchester / GEIC, UK) Water-based and biocompatible 2D material inks for printed and sustainable electronics	I

I2DM2025 – Innovation Pitching Event

Chairperson: **Mamoun Taher** (RIC2D / Khalifa University, UAE) / Room: Main Auditorium (C Building)

09:00-09:15	Francesco Bonaccorso (BeDimensional S.p.A., Italy)	O
09:15-09:30	Vincent Bouchiat (GRAPHEAL, France)	O
09:30-09:45	Joanna Baginska (Paragraf, UK)	O
09:45-10:00	Christian Salvatori (EsaNanotech, Italy)	O
10:00-10:15	Burcu Saner Okan (Euronova Next-Generation Sustainable Plastics Company, Turkey)	O
10:15-10:45	Round table “From Lab to Business: Innovation in Advanced Materials”	RT

10:45-11:15 Coffee Break / Poster Session / Exhibition

Chairperson: **Mamoun Taher** (RIC2D / Khalifa University, UAE) / Room: Main Auditorium (C Building)

	Farid Akhtar (Grafoam AB, Sweden)	O
	Jose Hugo Garcia Aguilar (Apeiron Intelligence, Spain)	O
	Sangeethsivan Sivakumar (ARDHANN, UK)	O
	Ana Guillen Navajas (Porous Energy Tech, Spain)	O
11:15-13:30 (12 mins each)	Guillermo Hernanz Borrego (2D4TEX, Spain)	O
	Bushara Fatma (NanoEnerTek, United Arab Emirates)	O
	Kun Huang (Aqua2D, UK)	O
	Premial Pillai (Hollowgraf Ltd, UK)	O
	Emad Alhseinat (Pure Hydro, UAE)	O
	Ozan Can Zehni (Dorlion SHM, UK)	O
	Sivaprakash Sengodan (AqZen, UK)	O

13:30-14:30 Cocktail Lunch (offered by I2DM2025 organisers)

Industrial Forum

Chairperson: **Matteo Negro** (ESANanoTech, Italy) / Room: Main Auditorium (C Building)

14:30-15:00	Chun Yu Lu (TII, United Arab Emirates)	K
	Shaping Light with Matter: Advanced Materials Driving the Future of Nanophotonics	
15:00-15:20	Charanjit Singh Bhatia (NUS, Singapore)	I
	Frontiers in Magnetic Recording Research: Towards 10 Terabits/In2	
15:20-15:35	Adilet Toksumakov (XPANCEO, United Arab Emirates)	O
	Revisiting Carbon's Optics: From Graphite's Past to Graphene's Future	
15:35-15:55	Simon Thomas (Paragraf, UK)	I
	Graphene Electronics at Scale & What Comes Next	
15:55-16:15	Farid Akhtar (Grafoam AB/Luleå University of Technology, Sweden)	I
	2D Nanotechnology for Sustainable, Strong, and Frost-Resistant Concrete	

16:15-16:45 Coffee Break / Poster session / Exhibition

Chairperson: **Chun Yu Lu** (TII, United Arab Emirates) / Room: Main Auditorium (C Building)

16:45-17:05	Adelina Braun (Merck KGaA, Germany)	I
	Powering a Sustainable Future with Advanced 2D Nanomaterials for Energy Storage	
17:05-17:25	Matteo Negro (ESANanoTech, Italy)	I
	ESANanoTech: From Laser-Induced Graphene to Advanced Applications in Radiant Heating and Energy Storage.	
17:25-17:40	Xin Gao (Peking University, China)	O
	Battery Materials Innovation: Toward High-Energy Li-S Systems	
17:40-17:55	Ahmed Abdelhady (Khalifa University, United Arab Emirates)	O
	Solvent Acidolysis Crystallization of Halide Perovskite Single Crystals	

Workshop 1: 2D/Advanced materials and additive manufacturing

Chairperson: **Kin Liao** (Khalifa University, United Arab Emirates) / Room: Lecture Hall A

14:30-14:45	Muhammad Faheem (Khalifa University, United Arab Emirates)	O
	Morphology-Dependent Catalytic Performance of CoFe ₂ O ₄ in Membrane Systems for Pollutant Degradation	

14:45-15:00	Randa Ibrahim Fathy Gaber (Khalifa University, United Arab Emirates) A Novel MXene-Based Membrane with Exceptional Ion Transport and Long-Term Stability	O
15:00-15:15	Ravi Pandey (Khalifa University, United Arab Emirates) Quaternary ammonium functionalised graphene oxide/Poly(lactic acid (PLA) based porous antibacterial membrane for water treatment	O
15:15-15:30	Muhammad Z. Iqbal (United Arab Emirates University, United Arab Emirates) Poly (ethylene furanoate) (PEF)/Graphene Nanocomposites: A New Paradigm of Sustainability in Materials and Membranes	O
15:30-15:45	Aya Aboukhater (Khalifa University, United Arab Emirates) Holey Graphene-Integrated NiTiO ₃ /TiO ₂ Heterojunction Photocatalyst for Efficient Degradation of Antibiotics in Hospital Wastewater and Development of Self-Cleaning Photocatalytic Membranes	O
15:45-16:05	Rahul Nair (National Graphene Institute, The University of Manchester, UK) Beyond Reverse Osmosis: 2D Materials-Based Membranes for Next-Generation Separations	I
16:05-16:45	Coffee Break / Poster Session / Exhibition	
	Chairperson: Rahul Nair (NGI, The University of Manchester, UK) / Room: Lecture Hall A	
16:45-17:05	Emad Alhseinat (Khalifa University, United Arab Emirates) Innovation toward Sustainability in Water Treatment and Desalination through 2D Material	I
17:05-17:25	Safiya Khalil Alhashmi (NYUAD: New York University Abu Dhabi, United Arab Emirates) Controlled growth and enhanced processing of 2D Covalent Organic Frameworks for Sustainability Applications	I
17:25-17:45	Kin Liao (Khalifa University, United Arab Emirates) Multifunctional Lightweight Materials: An overview from KU's Directed Project	I
17:45-18:00	Simona Achilli (University of Milan, Italy) Joint theoretical and experimental characterization of 2D materials heterostructures towards an improved growth efficiency	O
	Workshop 2: Advanced materials in biotechnology and healthcare	
	Chairperson: Lucia Gemma Delogu (Khalifa Univ & Univ of Padua, United Arab Emirates/Italy) / Room: Lecture Hall B (2)	
14:30-14:45	Shimaa Eissa (Khalifa University, United Arab Emirates) Graphene-Driven Biosensing: Functionalized Aptasensors and Immunosensors for Scalable Clinical and Environmental Detection	O
14:45-15:00	Ivan Bobrinetskiy (Moscow Institute of Physics and Technology, Russia) Graphene field effect transistors based on interdigitated electrodes as universal platform for biosensing	O
15:00-15:15	Nadeem Tariq (Khalifa University, United Arab Emirates) Porous Graphene Nanocomposites as Pressure Sensors for Human Activity Monitoring	O
15:15-15:30	Lina Tizani (Khalifa University, United Arab Emirates) Advancing Cancer Detection: Harnessing Biosensors for Early Diagnosis	O
15:30-15:45	Georgios Paterakis (University of Patras, Greece) Sustainable Fabrication of Graphene Based Sensors	O
15:45-16:05	Vincent Bouchiat (Grapheal, France) Graphene biosensors for rapid field detection of biomarkers and trace pollutants: From lab validation to mass market applications	I
16:05-16:45	Coffee Break / Poster Session / Exhibition	
	Chairperson: Vincent Bouchiat (Grapheal, France) / Room: Lecture Hall B (2)	
16:45-17:05	Lucia Gemma Delogu (Khalifa Univ & Univ of Padua, United Arab Emirates/Italy) MXene chemistries and the immune system	I
17:05-17:20	Laura Fusco (University of Padua, Italy) Single-Cell Insights into MXene Oxidation and Biocompatibility in Immune and Skin Models	O
17:20-17:35	Giacomo Reina (Empa, Switzerland) 2D Carbon Nanomaterials as Photoactive Antiviral and Antibacterial Agent	O
17:35-17:50	Roberta Cagliani (Khalifa University, United Arab Emirates) Functionalized carbon dots interactions with the immune system: from imaging to biomedical applications	O

Workshop 3: 2D/Advanced Materials for Energy

Chairperson: **Lourdes F. Vega** (Khalifa University, United Arab Emirates) / Room Lecture Hall B (1)

14:30-14:50	Ammar Nayfeh (Khalifa University, United Arab Emirates) Use of Graphene in Photovoltaics	I
14:50-15:05	Lakshya Mathur (Khalifa University, United Arab Emirates) Layered Perovskite Nanofibers with Tailored Entropy for Alkaline Water Electrolysis	O
15:05-15:25	Kyriaki Polychronopoulou (Khalifa University, United Arab Emirates) From Haber-Bosch to Next-Gen Catalysis: Ammonia Production Reimagined	I
15:25-15:40	Muhammad Ashraf Sabri (Khalifa University, United Arab Emirates) Tailored 2D g-C ₃ N ₄ Photocathodes with NiMoBW Sites for Efficient Furan Conversion	O
15:40-15:55	Rohan Ambade (Khalifa University, United Arab Emirates) 2D Hexagonal Boron Nitride synthesized via Scalable High-Pressure Homogenization for Sustainable Triboelectric Energy Harvesting	O
15:55-16:15	Dinesh Shetty (Khalifa University, United Arab Emirates) Molecular-level Design Strategy in 2D-Organic Frameworks for Efficient Desalination and Resource Recovery	I

16:15-16:45 Coffee Break / Poster Session / Exhibition

Chairperson: **Lourdes F. Vega** (Khalifa University, United Arab Emirates) / Room Lecture Hall B (1)

16:45-17:05	Mohammad Abu Zahra (Global CCS Institute, United Arab Emirates) Carbon Capture and Storage: Global Progress, Technology Status, and R&D Priorities	I
17:05-17:20	Chanaka Sandaruwan (Khalifa University, United Arab Emirates) Graphene Enhanced Hydrogen Storage Tanks: Performance Comparison with Commercial Variants	O
17:20-18:20	Round Table “2D and Advanced Materials for Energy: Challenges and Opportunities”	

20:30 **CONFERENCE DINNER**
Pitching Event awards ceremony
VOGO Abu Dhabi Golf Resort & Spa
Abu Dhabi, United Arab Emirates, 126797
www.vogohotels.com - Google maps - [more info](#)

Industrial Forum

Chairperson: **Kari Hjelt** (Chalmers Industriteknik, Sweden) / Room: Main Auditorium (C Building)

09:00-09:20	Andrea Capasso (INL, Portugal)	I
	Large-scale green production of 2D crystals for advanced technologies	
09:20-09:40	Kazuo Muramatsu (Incubation Alliance Inc., Japan)	I
	Mass Production and Advanced Application of Graphene Flower® and Related Products	
09:40-09:55	Kaicheng Jia (Beijing Graphene Institute, China)	O
	Controlled synthesis of wafer-scale single-crystal metal thin films for epitaxial graphene growth	
09:55-10:10	Luzhao Sun (Beijing Graphene Institute, China)	O
	Layer and Stacking Controlled Epitaxial Growth of Graphene Films	
10:10-10:25	Li Lin (Peking University, China)	O
	Automated processing and transfer of graphene wafers	

10:25-11:30 Coffee Break / Poster Session / Exhibition

Industrial Forum

Chairperson: **Andrea Capasso** (INL, Portugal) / Room: Main Auditorium (C Building)

11:30-11:45	Dolapo Onabule (Edinburgh Instruments, UK)	O
	Integrated Optical and Nonlinear Microscopy for TMD Analysis	
11:45-12:00	Sabarigresan Murugan (Park systems India Pvt Ltd, India)	O
	Advanced AFM Techniques for Graphene Research: Integrating Atomic Resolution, Electronic Properties, and Nano-Manipulation	
12:00-12:15	Yuqing Song (Beijing Graphene Institute (BGI), China)	O
	Controlled Growth of Graphene-skinned Powder Materials by Fluidized Bed-Chemical Vapor Deposition for Heat Dissipation	
12:15-12:30	Mariam AlMahri (RIC2D/INTRATOMICS, United Arab Emirates)	O
	Laser-Induced Formation of Molybdenum Trioxide Crystals	
12:30-12:45	Colin Elcoate (Levidian, United Arab Emirates)	O
	Beyond the Breakthrough: Why Graphene Still Hasn't Scaled - and What We're Going to Do About It	
12:45-13:05	Kari Hjelt (Chalmers Industriteknik, Sweden)	I
	Graphene innovation and commercialization	

Workshop 4: Lightweight multifunctional 2D-enhanced composites

Chairperson: **Burcu Saner Okan** (Sabanci University & Euronova, Turkey) / Room: Lecture Hall A

09:00-09:15	Jurajj Kandiyl (United Arab Emirates University, United Arab Emirates)	O
	Poly (ethylene furanoate)/Graphene oxide Nanofibrous composite membrane: A Novel Sustainable Membrane for Microplastics Separation	
09:15-09:30	Murad Ali (Khalifa University, United Arab Emirates)	O
	Enhancing Mechanical Properties of Graphene-Reinforced Photopolymer Resins via Additive Manufacturing	
09:30-09:45	Ozan Can Zehni (The University of Manchester, UK)	O
	Enhancing the Recyclability of Polycarbonate Using Graphene Nanoplatelets	
09:45-10:05	Ian Kinloch (Manchester University, UK)	I
	Multifunctional Composites Enabled by 2D Materials	
10:05-10:25	Prasad Potluri (GEIC, University of Manchester, UK)	I
	Damage tolerance through targeted delivery of 2D materials in structural composites	
10:25-10:45	Rehan Umer (Khalifa University, United Arab Emirates)	I
	Graphene-Modified Composite Tanks for High-Integrity Hydrogen Storage	

10:45-11:30 Coffee Break / Poster Session / Exhibition

Workshop 5: Enabling Innovation - Advanced Materials for Aerospace & Aviation

Chairperson: **Yarjan Abdul Samad** (Khalifa University, UAE) / Room: Lecture Hall B (1)

09:00-09:15	Israr Ahmed (Khalifa University, United Arab Emirates)	O
	MoO ₃ -Embedded Polymer Sensors for Narrowband UV Rejection in Optical and Fiber Configurations	

09:15-09:30	Sheng Wang (The University of Manchester, UK) Hybrid Interlaminar Toughening of Carbon/Epoxy Composites Using Nanoparticles and Veils	O
09:30-09:50	Dimitra Atri (NYU Abu Dhabi, United Arab Emirates) From Regolith to Reality: Advanced Materials Pathways for Lunar and Martian Surface Engineering	I
09:50-10:10	Carlo Saverio Iorio (Université Libre de Bruxelles / CREST, Belgium) Manufacturing in Space: a Challenge at the Crossroads of Material Science and Engineering	I
10:10-11:30	Coffee Break / Poster Session / Exhibition	
	Chairperson: Yarjan Abdul Samad (Khalifa University, UAE) / Room: Lecture Hall B (1)	
11:30-11:50	Hessa Almatroushi (Mohammed Bin Rashid Space Centre, United Arab Emirates) Enabling Human Exploration through Materials Innovation	I
11:50-12:10	Sean Swei (Khalifa University, United Arab Emirates) Enabling Sustainable Access to LEO – A CubeSat-based Solution	I
12:10-12:30	Giacomo Riboni (Roboze, Saudi Arabia) Reshaping Aerospace Manufacturing with High-Performance Polymer 3D Printing	I
12:30-13:30	Round table “Lifting Innovation: Advanced Materials Transforming Aerospace and Aviation”	RT
	Workshop 6: AI for Advanced materials	
	Chairperson: Luzhao Sun (Peking University, China) / Room: Lecture Hall B (2)	
09:00-09:15	Samee Ullah Khan (Khalifa University, United Arab Emirates) Multi-Modal Prompt Learning for Hydrogen Storage Composite Inspection	O
09:15-09:30	Sasan Nouranian (Center for Graphene Research and Innovation, Univ. of Mississippi, USA) Experiment–Machine Learning Synergy for Catalytic Carbonization of Polyetherimide/Graphite Nanocomposites	O
09:30-09:45	Yuting Li (Khalifa University, United Arab Emirates) Electric-Field Modulated Adsorption and Functionalization of Graphene by Radicals and Anions: A First-Principles Study	O
09:45-10:00	Ivan Kruglov (Emerging Technologies Research Center, XPANCEO, United Arab Emirates) AI-guided search for bulk and 2D materials with target optical properties	O
10:00-10:20	Sonia Conesa Boj (TU Delft, The Netherlands) Machine Learning from the Large Hadron Collider to van der Waals Materials	I
10:20-10:40	Jose Hugo Garcia (Apeiron / ICN2, Spain) How can automated R&D workflows make you efficient: expectations, pitfalls, and perspectives	I
10:40-11:30	Coffee Break / Poster Session / Exhibition	
11:30-13:30	PhD Students Session	
	Parallel Session PhD Students	
	Chairperson: Sonia Conesa Boj (TU Delft, The Netherlands) / Room: Lecture Hall A	
11:30-11:40	Aya Ghazal (Khalifa university, United Arab Emirates) Functionalized nanocomposites via eutectic solvent for environmentally sustainable applications	O
11:40-11:50	Abdallah Kamal (Khalifa University, United Arab Emirates) Ti ₃ C ₂ T _x MXene-Coated TPMS Structures for Lightweight, Absorption-Driven EMI Shielding	O
11:50-12:00	Khulood Alshehhi (Khalifa University, United Arab Emirates) Conducting Polymer Scaffolds Based On PEDOT:PSS/MXene Composites for Drug Delivery in Wound Healing Applications	O
12:00-12:10	Linda Giro (University of Padua, Italy) Impact of Protein Corona on MXene Immune and Biological Interactions	O
12:10-12:20	Stefan Jarić (University of Novi Sad, Biosense Institute, Serbia) Bioelectronic devices based on graphene FETs with aptamers for detection of small molecules and peptides	O
12:20-12:30	Dobrisan Mihaela-Raluca (National University of Science and Technology Politehnica Bucharest, Romania) 3D Printed Gellan/Gelatin Scaffolds Reinforced with Cellulose Nanofibrils and Graphene Derivatives for Bone Tissue Engineering Applications	O

12:30-12:40	Laura Falco Paiva Carvalho (Khalifa University, United Arab Emirates) 3D printing antifouling properties into nanoporous membranes	O
12:40-12:50	Muhammad Kashif Raza (Khalifa University, United Arab Emirates) Developing Scalable Graphene based Electrodes for Capacitive Deionization	O
12:50-13:00	Yuchian Soong (The University of Manchester, UK) Mechanism of the electrochemical hydrogenation of graphene	O
13:00-13:10	Mohammad Al Hamdi (Khalifa University, United Arab Emirates) Proton Permeation and Electronic Analysis in 2D Transition Metal Dichalcogenides: A First-Principles Study	O
13:10-13:20	Shaokai Zhou (Southern University of Science and Technology, China) Broadband Deep UV to NIR Photodetection with High Stability and Large Dichroic Ratio Enabled by Type-I Band Engineering	O
13:20-13:30	Omnia Khattab (Khalifa University, United Arab Emirates) Laser Propulsion of Three-Dimensional Graphene Structures For Space Applications	O
13:30-14:30	Cocktail Lunch (offered by I2DM2025 organisers)	
14:30-15:00	Poster Session 2	
Plenary Session		
Chairperson: Aravind Vijayaraghavan (The University of Manchester, UK) / Room: Main Auditorium (C Building)		
15:00-15:30	Lourdes F. Vega (Khalifa University, United Arab Emirates) 2D Materials for Clean Energy: From Molecular Design to Scalable Decarbonization Technologies	I
15:30-15:45	Kun Huang (National Graphene Institute, UK) Cooperative Jahn-Teller effect and engineered long-range strain in manganese oxide/graphene superlattice for aqueous zinc-ion batteries	O
15:45-16:00	Maryam Khaleel (Khalifa University, United Arab Emirates) Investigating the effect of the textural properties of Zeolite Templated Carbon Air Electrode on Lithium Oxygen Battery Performance	O
16:00-16:15	Ekaterina Pomerantseva (Drexel University, USA) Unlocking New Two-Dimensional Oxide Materials via MXene Transformation for Energy Storage	O
16:15-16:45	Marcelo Lozada hidalgo (The University of Manchester, UK) 2D proton permeable materials for energy and unconventional computing	I
16:45-17:15	Coffee Break / Poster Session / Exhibition	
Chairperson: Marcelo Lozada hidalgo (The University of Manchester, UK) / Room: Main Auditorium (C Building)		
17:15-17:45	Burcu Saner Okan (Sabanci University & Euronova, Turkey) Sustainable Nanoengineering for Next-Generation Circular Thermoplastic Composites	K
17:45-18:15	Aravind Vijayaraghavan (The University of Manchester, UK) Unique electro-hydro-dynamic behaviours in graphene oxide dispersions	I

THURSDAY NOVEMBER 20, 2025

Chairperson: Daniel Bahamon Garcia (Khalifa University, UAE) / Room: Main Auditorium (C Building)		
09:00-09:15	Gleb Tselikov (Emerging Technologies Research Center, XPANCEO, United Arab Emirates) Tunable Nanostructuring for van der Waals Materials	O
09:15-09:30	Dineshkumar Sengottuvelu (CGRI / University of Mississippi, USA) Interfacial Charge Transfer Mechanisms Driving High Responsivity in WS ₂ QD/MoS ₂ Photodetectors	O
09:30-09:45	Mikhail Otrokov (Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Universidad de Zaragoza, Spain) Magnetic anisotropy and Curie temperatures of chromium chalcogenide two-dimensional Janus ferromagnets	O
09:45-10:15	Valentyn S. Volkov (XPANCEO, United Arab Emirates) Scalable Ultrathin Gold Films for Next-Generation Optoelectronic Applications.	I
10:15-11:15 Coffee Break / Poster Session / Exhibition		
Chairperson: Yarjan Abdul Samad (Khalifa University, UAE) / Room: Main Auditorium (C Building)		
11:15-12:00	Kostya Novoselov (NUS, Singapore) Dynamic van der Waals heterostructures (& new electronic phases)	P
12:00-12:15	Piotr Dlugolecki (Technology Innovation Institute, United Arab Emirates) Integrated Brine Mining Platform: Turning Desalination Waste into Strategic Resources	O
12:15-12:30	Xinyue Wen (National University of Singapore, Singapore) Application of graphene oxide membranes for mass transport and nanoconfined water	O
12:30-12:45	Vengatesan Muthukumaraswamy Rangaraj (Khalifa University, United Arab Emirates) Two-dimensional Hybrid nanocomposites for Ion-selective Faradic Capacitive Deionization	O
12:45	CLOSING & I2DM2026 announcement	