

3rd INTERNATIONAL CONGRESS ON

MATERIALS SCIENCE AND ENGINEERING

**JULY 15–17, 2026 | POLITECNICO DI MILANO
PIAZZA LEONARDO DA VINCI, MILAN, ITALY**

HOSTING UNIVERSITY



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INSTRUCTIONS FOR SPEAKERS

1. **Plenary Talks:** Plenary speakers will be allotted 40 minutes to present their results, followed by a 5 minutes discussion period.
2. **Keynote Talks:** Keynote speakers will be allotted 20 minutes to present their results, followed by a 5 minutes discussion period.
3. **Invited Talks:** Invited speakers will be allotted 17 minutes to present their results, followed by a 3-minute discussion period.
4. **Oral Talks:** Oral speakers will be allotted 12 minutes to present their results, followed by a 3-minute discussion period.
5. Please do not exceed the allotted time slot.
6. Speakers should have their presentations saved on a USB memory stick.
7. It is suggested to email a copy of the presentations to us as back up.
8. Please prepare the presentation in PPT files, PDF is not recommended.
9. Basic AV setup will be provided: laser pointer, cordless mike, desktop mike, sound system.
10. Laptops equipped with Windows 10, Office 2010 Pro English (Word, Powerpoint, Excel) and Adobe Reader are provided.
11. If your presentation files contain movies, please make sure that they are well formatted and connected to the main files. You may check your slides during the breaks.
12. Projectors are equipped with standard VGA connection ports. Mac users should bring their own adapter cord.
13. Please re-check this program prior to the conference to confirm if any changes have been made to your session.
14. Conference volunteers will move the mic during Q&A. Audience with questions may raise hand to receive the mic.

INSTRUCTIONS FOR POSTER

1. Maximum poster size is A0.
2. Push pins for attaching the poster to the board will be provided.
3. Poster presenters will be directed to the designated board at the start of the poster session.
4. Author must be present to provide details and answer questions during the selected poster session times.

SPEAKER ZOOM GUIDELINES

How to Participate in a Zoom Meeting?

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- Join a meeting by clicking on a Zoom link received from the organizers.
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You can mute and unmute your microphone. The host also can mute you. We recommend using a headset and/or micro-~~phone~~ as it will lead to better sound quality than using your computer audio. Turn off all sound notifications on your device. Note: During the presentation we will unmute everyone except the speaker and the chairs.

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Presentation Timings

Please note that all the timings mentioned in the program are as per the Orlando time zone (GMT+4). Do ensure that you check the time difference well in advance and join the meeting at least 30 minutes prior to your scheduled presentation time. If you need us to tell the specific time slot for your presentation (in local time zone), do let us know. (or) use world time buddy.com for the accurate time zone.

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08:00–09:00 Registrations

09:15–09:30 Opening and Welcome by Conference Chair **Prof. Antonino Famulari**

Plenary Talks

Session Chairs: Antonino Famulari, Politecnico di Milano, Italy
Loredana Maiuolo, University of Calabria, Italy

09:30–10:15 **Title:** Membrane-Targeted Azobenzenes: New Interfaces Between Light and Biological Systems
Chiara Bertarelli, Politecnico Milano, Italy

10:15–11:00 **Title:** Shaping Tomorrow's Electronics: Alternatives to Silicon
Rodrigo Martins, FCT-NOVA, Portugal

11:00–11:30 COFFEE BREAK

11:30–12:15 **Title:** Nanocomposite Polymeric Membranes for H₂ Separation and CO₂ Capture (Online)
Tai-Shung Chung, National Taiwan University of Science and Technology, Taiwan

12:15–13:00 **Title:** Benign-by-Design Nanomaterials for Catalysis and Energy-Related Applications (Online)
Rafael Luque, ECOTEC University, Ecuador

13:00–14:30 LUNCH BREAK

Session: Innovations in Materials Synthesis and Characterization

Session Chairs: Daniil Nikitin, Charles University, Czech Republic

14:30–14:55 **Keynote Talk:** NMR Spectroscopy for Materials Science and Pharmaceuticals
Franca Castiglione, Politecnico di Milano, Italy

14:55–15:20 **Keynote Talk:** Liquid Interface Deposition (LID): A Method for the Production of Thin Films and Heterostructures of Two-Dimensional Solids
Marek Szablewski, Durham University, UK

15:20–15:45 **Keynote Talk:** Gas-Phase Synthesis of Hybrid Nanoparticles Driven by Magnetron Sputtering
Andrey Shukurov, Charles University, Czech Republic

15:45–16:10 **Keynote Talk:** Intercalation Phase Engineering of Transition Metal Dichalcogenides
Zhiyuan Zeng, City University of Hong Kong, Hong Kong

16:10–16:40 COFFEE BREAK

16:40–17:00 **Invited Talk:** Plasma Polymerisation of Hydrocarbon Precursors for the Synthesis of Nanofuels for Proton-Boron Fusion
Daniil Nikitin, Charles University, Czech Republic

17:00–17:20 **Invited Talk:** Influence of Ag Content of Polyethylene Glycol/Silver (PEG/Ag) Nanocomposite Thin Films on AC Conductivity
Sahin Yakut, Istanbul University, Turkey

17:20–17:40 **Invited Talk:** Effect of Primary Carbides on The Fatigue Behavior of Aircraft Turbine Bearing Steels
Víctor M. Alcántara Alza, Trujillo National University-Peru, Peru

19:00
ONWARDS

NETWORKING COCKTAILS

Session Chairs: Mose' Casalegno, Politecnico di Milano, Italy
Javier Marti Rujas, Politecnico di Milano, Italy

- 14:30–14:55** **Keynote Talk:** New Structural Properties and Host–Guest Chemistry of M12L8 Polycatenanes
Javier Marti Rujas, Politecnico di Milano, Italy
- 14:55–15:15** **Invited Talk:** In Silico Design and Characterization of Thiophene–Based Materials for Organic Electronics
Mose' Casalegno, Politecnico di Milano, Italy
- 15:15–15:35** **Invited Talk:** Reconfigurable Electronic Structures in 2D vdW Heterostructures: Moiré, Stacking, and Strain *via* DFT/GW
Hung–Chung Hsueh, Tamkang University, Taiwan
- 15:35–15:55** **Invited Talk:** Computational Optimization of Functional Materials for Energy and Environmental Applications
Abdullah Alghafis, Qassim University, Saudi Arabia
- 15:55–16:15** **Invited Talk:** DFT Insights into Opto–Electronic Properties of Near Infra–Red (I) Absorber 1:1 Perylene: TCNQ Cocrystal Towards Photovoltaic Application
Arkalekha Mandal, University of Oslo, Norway
- 16:15–16:40** **COFFEE BREAK**
- 16:40–16:55** **Oral Talk:** From Elemental Powders to Industrial Forging: FEM–Assisted Processing and Microstructural Evolution of PM U720Li Nickel–Based Superalloy
Wiktoria Skonieczna, AGH University of Krakow, Poland
- 16:55–17:10** **Oral Talk:** Colloidal Processing of Hydroxyapatite–Based Bioactive Ceramics Derived from Phosphate Rock for Bone Regeneration Applications
Sara Mercedes Barroso Pinzon, Universidad Nacional de Colombia, Colombia
- 17:10–17:25** **Oral Talk:** Computational Reactivity Strategies Applied to Fullerene Derivatives in the Stabilisation of Hybrid Perovskite–Based Solar Cells
Bruno Hori Barboza, Universidade Estadual Paulista, France
- 17:25–17:40** **Oral Talk:** Oxygen Vacancy Triggered Electron Traps and Observation of Giant Dielectric Constant in Hot–Pressed Perfectly Dense Calcium Manganese Oxide Ceramics
Megha Pant, University of Delhi, India

19:00
ONWARDS

NETWORKING COCKTAILS

Session: Advanced Functional Materials

Session Chairs: Mariacecilia Pasini, Consiglio Nazionale delle Ricerche, Italy
Paola Costanzo, University of Calabria, Italy

- 09:30–09:55** **Keynote Talk:** Sustainably Engineered N-Doped Carbon Dots: Structure–Property Modulation for Advanced Photoredox Applications and Light–Matter Interactions
Mariacecilia Pasini, Consiglio Nazionale delle Ricerche, Italy
- 09:55–10:20** **Keynote Talk:** Cellulose: an Ancient Material for Innovative Applications
Paola Costanzo, University of Calabria, Italy
- 10:20–10:45** **Keynote Talk:** Refractory High Entropy Alloys Resistant to Multicomponent Aggressive Gas Mixtures
Zbigniew Grzesik, AGH University of Krakow, Poland
- 10:45–11:05** **Invited Talk:** Hierarchically Porous Inorganic Materials for Efficient Heterogeneous Catalysis
Haifei Zhang, University of Liverpool, UK

11:05–11:30 COFFEE BREAK

- 11:30–11:50** **Invited Talk:** Multi-Material L–PBF of Ti–42Nb/Ti–5553 Layered Composites for Enhanced Strength and Ductility
Rubens Caram, University of Campinas, Brazil
- 11:50–12:10** **Invited Talk:** Epitaxial Binary Fe–Alloys Ferromagnets
Abdellah Lisfi, Morgan State University, USA
- 12:10–12:30** **Invited Talk:** The Effect of Silicon Carbide Nanoparticles on the Plasticity and Microstructure of the PM Udimet 720LI Superalloy
Marek Wojtaszek, AGH University of Krakow, Poland
- 12:30–12:50** **Invited Talk:** Mid–IR Emission of Si–Based Microspheres: From Vibrational Emission to Resonant Mediated Superplankian Emission
Fernando Ramiro Manzano, Instituto de Tecnología Química, Spain

12:50–14:30 LUNCH BREAK

Session Chair: Marek Wojtaszek, AGH University of Krakow, Poland

- 14:30–14:50** **Invited Talk:** Interplay Between Energy Transfer, Exciton Dissociation and Triplet–State Dynamics in Quasi–Two–Dimensional FAPbBr₃ Perovskites
Vidmantas Gulbinas, Center for Physical Sciences and Technology, Lithuania
- 14:50–15:10** **Invited Talk:** Nanotubes and Polymer Composites with Applications in Wastewater Treatment
Monica Enculescu, National Institute of Materials Physics, Romania
- 15:10–15:30** **Invited Talk:** Polyester Hybrid Composites with Ceramic and Natural Fillers: Mechanical Performance and Thermal Behavior
Merve Karaman, Izmir Katip Çelebi University, Turkey
- 15:30–15:45** **Oral Talk:** Effects of Silver (Ag) Doping on Dielectric and Structural Properties of Polyethylene Glycol (PEG) Nanocomposite Thin Films
Huseyin Furkan Eminoglu, Istanbul University, Turkey

15:45–16:15 COFFEE BREAK**16:15–18:00** POSTER PRESENTATIONS

Session: Materials for Sustainable Energy, Environment and Nanotechnology

Session Chairs: Amerigo Beneduci, University of Calabria, Italy
Tersilla Virgili, IFN-CNR, Italy

- 09:30–09:50** **Invited Talk:** Controlling Ultrafast Photonic-Plasmonic Coupling in a Hybrid Platform for Biosensing Applications
Tersilla Virgili, IFN-CNR, Italy
- 09:50–10:10** **Invited Talk:** Advanced Adsorbents for Water Remediation and Critical Raw Materials Recovery
Amerigo Beneduci, University of Calabria, Italy
- 10:10–10:30** **Invited Talk:** APTES-Functionalized Kaolin-MgAl LDH Composite for Reactive Black 5 Adsorption
Stavros Pouloupoulos, Nazarbayev University, Kazakhstan
- 10:30–10:55** **Keynote Talk:** Re-Using Wastes to Improve Asphalts in Road Pavements
Pietro Calandra, National Research Council, Italy
- 10:55–11:30** **COFFEE BREAK**
- 11:30–11:55** **Keynote Talk:** Fifty Years of Goldene and a Gold Rush for Silicene and Further Xenos
Le Lay Guy, Aix-Marseille University, France
- 11:55–12:15** **Invited Talk:** Effect of Benzoyl Peroxide on the Viscoelastic and Rheological Properties of LDPE Produced via Reactive Extrusion
Nusret Kaya, İzmir Katip Çelebi University, Turkey
- 12:15–12:35** **Invited Talk:** pH-Thermo Dual-Responsive Polymeric Nanoparticles for Women's Health: Dual Action Against Cervical and Ovarian Cancer Cells
Filippo Rossi, Politecnico di Milano, Italy
- 12:35–12:50** **Oral Talk:** High-Performance Waste-to-Energy Conversion Using PVDF-TrFE Flexible Piezoelectric Nanogenerators Embedded with Engineered BCZT@CuFe₂O₄ Structures
Chaymae Bahloul, Mohammed VI Polytechnic University, Morocco
- 12:50–13:05** **Oral Talk:** NiO_x and CuO_x Thin Films Hole Transport Layers for Perovskite Solar Cells
Benjamin Atala Niedmann, Universidad Técnica Federico Santa María, Chile
- 13:05–14:30** **LUNCH BREAK**

Session: Online Session

Session Chair: Filippo Rossi, Politecnico di Milano, Italy

- 14:30–14:55** **Keynote Talk:** Supramolecular Self-Assembly of Fullerenes: Zero to Higher Dimensions
Shrestha Lok Kumar, National Institute for Materials Science, Japan
- 14:55–15:15** **Invited Talk:** Tunable 3D Hybrid Nanocomposites for Adaptive Electromagnetic Shielding and Advanced Optoelectronic Applications
Mirela Suche, Hellenic Mediterranean University, Greece
- 15:15–15:35** **Invited Talk:** Advances of Hydrodynamic Cavitation from an Informatics Point of View
Levente Csoka, ELTE Eötvös Loránd University, Hungary
- 15:35–15:50** **Oral Talk:** Interfacially Engineered ZnO/Ti₃C₂T_x MXene Heterostructures for Enhanced Photocatalytic and Antibacterial Performance
Taghreed Al-Mutairi, Qassim University and Imam Abdulrahman Bin Faisal University, Saudi Arabia

- ME01** **Title:** Investigation of Quinoline Derivatives as Corrosion Inhibitors for AISI 430 Stainless Steel in Acidic Solution: Experimental and Theoretical Analysis
Bruno Hori Barboza, Universidade Estadual Paulista, Brazil
- ME02** **Title:** Texture Evolution and Elastic Modulus Tailoring in Additively Manufactured Ti-42Nb Alloy
Joao Felipe Queiroz Rodrigues, University of Campinas, Brazil
- ME03** **Title:** Additive Manufacturing of Hybrid Titanium Alloys by PBF-LB: Controlled Microstructural Gradients and Mechanical Response
Gilberto Vicente Prandi, University of Campinas, Brazil
- ME04** **Title:** Tailoring Mechanical and Microstructural Properties of PBF-LB Ti-Nb-Ta Multilayer Composites for Biomedical Applications
Mariana Sizenando Lyrio, University of Campinas, Brazil
- ME05** **Title:** Alpha Phase Nucleation in a Metastable Beta Ti-Nb-Fe-Sn Alloy: Intergranular and Intragranular Precipitation Mechanisms
Leticia F Starck, University of Campinas, Brazil
- ME06** **Title:** The Use of Waste Materials from the Wood Industry in the Form of Sawdust from Pedunculate Oak (*Quercus robur*) in Processes for Removing Metals from the Aquatic Environment
Tomasz Kalak, Poznań University of Economics and Business, Poznań, Poland
- ME07** **Title:** Improving the Electrical Response of Metal Oxide-Based Sensors
Ricardo Henriquez Correa, Federico Santa Maria Technical University, Chile
- ME08** **Title:** Structural and Morphological Tuning of CuO Thin Films for Enhanced Ethanol Gas Sensing
Leonardo Andres Vergara, Universidad Técnica Federico Santa María, Chile
- ME09** **Title:** Growth of Ultrathin NiCl₂ Films on Au(111) Studied by STM
Javiera Martinez, Universidad Técnica Federico Santa María, Chile
- ME10** **Title:** Spintronic Potential of Co/Cr₂O₃ Interfaces: Oxidation and Exchange Bias Effects
Fernando Alvarez Asencio, Universidad Técnica Federico Santa María, Chile
- ME11** **Title:** Microstructural Evolution and Phase Transformation Pathways in Metastable β -Ti Alloys produced by LB-PBF
Matheus Valentim, University of Campinas, Brazil
- ME12** **Title:** Controlled Electrochemical Surface Nanostructuring of Metallic Glasses: A Platform for Tailored Functional Properties
Viktoriia Shtefan, Leibniz Institute for Solid State and Materials Research Dresden, Germany
- ME13** **Title:** Constitutional Supercooling Strategies for Additive Manufacturing Grain Refinement: Effect of Increasing Cu Additions in the Ti-42Nb Alloy
Hugo Magalhães, University of Campinas, Brazil
- ME14** **Title:** Development of Poly(4-vinylpyridine)-Wrapped Carbon Nanotubes with Metal Nanoparticle Decoration for High-Sensitivity Hydrogen Detection
Andrea Gonzalez Minaya, Massachusetts Institute of Technology, USA
- ME15** **Title:** Bridging Data Science and Battery Engineering: Analytical Equations for LMB Capacity Retention via Machine Learning and Symbolic Regression
Min-Ho Kang, The Catholic University of Korea, South Korea
- ME16** **Title:** Surface Engineering of Si@void@C Yolk-Shell Anode via GQD Coating for Superior Capacity Retention in Li-Ion Batteries
Min-Ho Kang, The Catholic University of Korea, South Korea

- ME17** **Title:** Nanosized Silicon Confined in 3D Porous MoS₂ Frames for High Capacity and Cycling Stability in Lithium-Ion Battery
Min-Ho Kang, The Catholic University of Korea, South Korea
- ME18** **Title:** Uniform Carbon-Coated SiOX Anodes *via* PDDA-Assisted RF Gel Assembly and Magnesiothermic Reduction
Min-Ho Kang, The Catholic University of Korea, South Korea
- ME19** **Title:** Molybdenum Disulfide for Battery Applications
Hae Kyung Jeong, Daegu University, South Korea
- ME20** **Title:** Core-Controlled Assembly Mechanisms of Virus Like Particles
Monica Enculescu, National Institute of Materials Physics, Romania
- ME21** **Title:** Developed a Multifunctional Local Drug Delivery System Based on Zinc-Magnesium Layered Hydroxide Nanoparticles (Zn-Mg LH NPs) Loaded with Doxycycline
Catarina Ferreira dos Santos, Instituto Politécnico de Setúbal, Portugal
- ME22** **Title:** Enhancing Cardiovascular Risk Prediction with Biomarkers, Genetics, Socioeconomic Status, and Machine Learning
Janvi NMN Garg, ATLAS Research Program, USA
- ME23** **Title:** Predictors of Accelerated Progression in Parkinson's Disease Under Dopaminergic Therapy: A Systematic Review and Meta-Analysis
Janvi NMN Garg, ATLAS Research Program, USA
- ME24** **Title:** Design Of an Actuator for Linear Displacement by Shape Memory Alloy
Chi Hsiang Pan, National Chin-Yi University of Technology, Taiwan
- ME25** **Title:** Martensitic Transformation Influence on Crack Behaviour in Beta Metastable Ti-5553 Alloy
Carlos Samuel Alves da Silva, University of Campinas, Brazil
- ME26** **Title:** Laser-Assisted Nanostructured rGO/PVA Polymer Materials for Energy Applications
Maha Al-Hamadani, University of Basrah, Basrah, Iraq
- ME27** **Title:** Scalable FAST/SPS Processing of TiNbTaHfMo High-Entropy Alloys for Biomedical Implants: Linking Microstructure to Mechanical and Corrosion Performance
Sheila Lascano Farak, Universidad Técnica Federico Santa María, Chile
- ME28** **Title:** Development of Novel, Stable, Efficient and Unclonable Nanoscale Luminescent Ink for Advanced Anti-Counterfeiting Applications
Payal P. Pradhan, National Institute of Technology Warangal, India
- ME29** **Title:** Laser-Based Nanostructured Photonic Polymer Sensors Based on ZnO/PMMA Nanocomposites
Haitham Al-Tameemi, University of Basrah, Basrah, Iraq

Session: Biomaterials and Biomedical Applications

Session Chairs:

- 09:30–09:50** **Invited Talk:** Biopolymers and Essential Oils: A Perfect Combination for the Development of Biocompatible Nanosystems and Materials
Anastasia Detsi, National Technical University of Athens, Greece
- 09:50–10:10** **Invited Talk:** 3D Bioprinting of a Cardiac Patch Using Decellularized Bovine Pericardium, Silk Fibroin and Gold Nanoparticles
Yuksel Cetin, TÜBİTAK Marmara Research Center, Turkey
- 10:10–10:30** **Invited Talk:** Nanosystems Encapsulating Essential Oils of Aromatic Plants for the Control of Tetranychus Urticae and Tuta Absoluta
Loanna Pitterou, National Technical University of Athens, Greece
- 10:30–10:45** **Oral Talk:** Dy³⁺-Activated BaYAl₃O₇ under UV Excitation: A Promising Phosphor for Therapeutic Functional Composites
Aabha Pardhi, National Institute of Technology Warangal, India
- 10:45–11:15** **COFFEE BREAK**
- 11:15–11:30** **Oral Talk:** Real-World Performance of AI for Diabetic Retinopathy Screening
Rithvik Inamapudi, ATLAS Research Program, USA
- 11:30–11:45** **Oral Talk:** Enhancing Cardiovascular Risk Prediction with Biomarkers, Genetics, Socioeconomic Status, and Machine Learning
Arjun Paunikar, ATLAS Research Program, USA
- 11:45–12:00** **Oral Talk:** AI-Assisted Diagnosis, Access, and Equity in Squamous Cell Carcinoma
Siddarth Mothukuri, ATLAS Research Program, USA
- 12:00–12:15** **Oral Talk:** Tracking Inflammation Markers Prevents Early Death and Complications in Lung Cancer Immunotherapy
Shivam Loyalka, ATLAS Research Program, USA
- 12:15–12:30** **AWARD CEREMONY**
- 13:00–14:30** **LUNCH BREAK AND CLOSING**

Session Chairs:

- 09:30–09:50** **Invited Talk:** Recycling NdFeB Magnets
Pierre Bernstein, Normandy University, France
- 09:50–10:10** **Invited Talk:** Computational Screening of High-Entropy Alloys for Hydrogen Storage Using HEAPS and MH Pro Programs
Afaf Ghais, University of Technology and Applied Sciences, Oman
- 10:10–10:30** **Invited Talk:** Evaluation of Mechanical Properties of Kenaf Core Fiber /UREA Formaldehyde Composites
Saad Assi Mutahser Al Jaber, University of Technology and Applied Sciences-Suhar, Oman
- 10:30–10:45** **Oral Talk:** Preliminary Correlation of LSCF Particle Size and Conformation Viability in Freeze-Casting Processing
Natália Mata Oliveira Lima, University of Brasília, Brazil
- 10:45–11:15** **COFFEE BREAK**
- 11:15–11:30** **Oral Talk:** Nanoarchitectonics of Fullerene-Derived Carbon: Cavity Engineering in Fullerene Self-Assembly for Ammonium-Ion Storage
Sabina Shahi, National Institute for Materials Science, Japan
- 11:30–11:45** **Oral Talk:** Biomass Nanoarchitectonics: Sustainable Porous Carbon Materials for Energy Storage Applications
Aabha Puri, National Institute for Materials Science, Japan
- 11:45–12:00** **Oral Talk:** Detection of Acetone in Exhaled Breath Using Pt/Au Core-Shell Nanoparticle-Decorated ZIF-8/ZnO Films
Hessah Alharbi, Imam Abdulrahman Bin Faisal University, Saudi Arabia
- 12:00–12:15** **Oral Talk:** The Psychology on Web Design: A Case Study About the Contemporary Challenges between Neuroscience and Technology
Pedro Caua Galdino Lima, Instituto Federal de Ciência e Tecnologia do Ceará, Brazil
- 12:15–12:30** **AWARD CEREMONY**
- 13:00–14:30** **LUNCH BREAK AND CLOSING**



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WE WISH TO SEE YOU AT MATERIALS SCIENCE AND ENGINEERING-2027



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