



3RD INTERNATIONAL CONFERENCE ON

MATERIALS FOR GREEN FUTURE

MARCH 16-18, 2026

HOTEL NH VIENNA AIRPORT CONFERENCE CENTER, VIENNA, AUSTRIA

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INSTRUCTIONS FOR SPEAKERS

1. **Plenary Talks:** Plenary speakers will be allotted 25 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 E-POSTER

1. Poster must be prepared in PowerPoint (Max 2 slides).
2. Use high-resolution images and readable fonts.
3. Each presenter will have 7 minutes to briefly explain their poster during the poster session, Followed by 3 minutes for Q&A.

DAY-1, MARCH 16, 2026

09:00–09:45 Registrations

09:45–10:00 Welcoming Speech: Conference Advisory Board

Session Chair: Sergio Tosoni, Università di Milano–Bicocca, Italy

PLENARY TALKS

10:00–10:30 Title: Circular Upcycling of Electronic, Industrial and Coal Waste into High-Performance Catalysts
Günther Rupprechter, TU Wien, Austria

10:30–11:00 Title: Beautiful Defects: Designed Thin Films for Sustainable Performance
Paul Heinz Mayrhofer, TU Wien, Austria

11:00–11:30 COFFEE BREAK

KEYNOTE TALKS

11:30–11:55 Title: Magneto-Plasmonic Nanodevices for Nanotherapies, Green Synthesis and Water Remediation
Borja Sepúlveda, Instituto de Microelectrónica de Barcelona, Spain

11:55–12:20 Title: Graphene Mesosponse for Energy Applications
Hiroto Nishihara, Tohoku University, Japan

12:20–12:45 Title: Hydrogen Production from Positive Electrode Materials in Lithium Ion Rechargeable Batteries due to Water Splitting
Bun Tsuchiya, Meijo University, Japan

12:45–13:50 LUNCH BREAK

Session Chair: Borja Sepulveda, Instituto de Microelectrónica de Barcelona, Spain

INVITED TALKS

13:50–14:10 Title: Zero-Field Superconducting Diode Effect in Artificial Multilayers
Hideki Narita, Nagoya University, Japan

14:10–14:30 Title: When the Surface is the Device: Hints from DFT Calculations
Sergio Tosoni, Università di Milano–Bicocca, Italy

14:30–14:50 Title: Confined Crystallization in PEDOT:PSS: Tailoring Charge and Heat Transport for Thermoelectric Energy Harvesting
Fabiola Liscio, CNR - ISMN Sezione di Bologna, Italy

14:50–15:10 Title: Modulation of Transition Metal Dichalcogenides *via* Interface Engineering with Molecules and Polymers
Daisuke Kiriya, The University of Tokyo, Japan

15:10–15:40 COFFEE BREAK

15:40–16:00 Title: Synthesis of Al–5Mg (wt%) Alloy *via* Powder Metallurgy Route Using Hot Pressing
Vijay N Nadakuduru, Malaviya National Institute of Technology Jaipur, India

16:00–16:20 Title: Ultra-Small Metal/Ionic Liquid Interfaces on Layered Niobates for Hydrogen Production *via* Methanol Photoreforming
Gustavo Chacón-Rosales, Instituto de Tecnología Química (UPV-CSIC), Spain

16:20-16:40

Title: Porous Carbon Pellets from Cellulose Acetate for High-Volumetric Hydrogen Storage
Hiroshi Matsutaka, Tohoku University & RIKEN, Japan

16:45-17:45

Cocktails & Networking

DAY-2, MARCH 17, 2026

PLENARY TALK

Session Chair: Borja Sepulveda, Instituto de Microelectrónica de Barcelona, Spain

09:00–09:30 **Title:** Redox Aspects of Lithium Ion Batteries
Hubert Girault, Ecole Polytechnique Fédérale de Lausanne, Switzerland

KEYNOTE TALKS

09:30–09:55 **Title:** Green Methods for the Synthesis of Phosphinates, Phosphonates and Tertiary Phosphine Oxides
György Keglevich, Budapest University of Technology and Economics, Hungary

09:55–10:20 **Title:** Cellulose-Based Hierarchical Structures: Linking Chirality and Functionality in Green Materials
Maria Helena Godinho, NOVA University Lisbon, Portugal

10:20–10:45 **Title:** Experimental Journey at the Edge of Quantum Materials
Alberta Bonanni, Johannes Kepler University, Austria

10:45–11:10 **Title:** Green Design of Biopolymer Hydrogels for Regenerative Wound Care: Evidence from *In-vivo* Study
Jovana Bradic, University of Kragujevac, Serbia

11:10–11:40 **COFFEE BREAK**

Session Chair: Hubert Girault, Ecole Polytechnique Fédérale de Lausanne, Switzerland

INVITED TALKS

11:40–12:00 **Title:** Coupled Multicomponent Mixed Oxides Based on-Alumina: Al_2O_3 - Nd_2O_3 - ZnO - x and Al_2O_3 - Ga_2O_3 - Ag_2O - x , Prepared by the sol-gel Method, for the Photocatalytic Degradation of Polluting Organic Compounds in Aqueous Media
Arturo Barrera Rodriguez, Universidad de Guadalajara, México

12:00–12:20 **Title:** Ultrahigh-Strength, yet Tough Nanomaterials by High-Pressure Torsion Deformation of Pure and Modest Alloyed Metals
Marlene Kapp, Austrian Academy of Sciences, Austria

12:20–12:40 **Title:** Green Formulation Strategies for Hydrogel Systems: Impact on Antioxidant Activity
Aleksandar Kocovic, University of Kragujevac, Serbia

12:40–13:00 **Title:** Induction Furnace-Based Valorisation of Steelmaking Byproducts: Case Studies on Mill Scale, Grinding Dust, and ESR Dust
Ravi Prakash Singh, University of Warwick, United Kingdom

13:00–14:00 **LUNCH BREAK**

Session Chair: György Keglevich, Budapest University of Technology and Economics, Hungary

ORAL TALKS

14:00–14:15 **Title:** Recycling Pelletized Waste to Produce Innovative and Sustainable Concrete
Valeria Corinaldesi, Università Politecnica delle Marche, Italy

14:15–14:30 **Title:** Fabrication of CeVO_4 @ CePO_4 Z-Scheme Heterojunction for Highly Efficient Pollutant Degradation: Experimental and DFT Studies
Omar Ouzaguine, Ibn Zohr University, Morocco

14:30–14:45 **Title:** Stabilisation of Dredged Sediment Using Fly Ash and Recycled FRP from Wind Turbine Blades: Strength Development with Magnesium Ammonium Phosphate Cement (MAPC)
Bahman Ibrahimi, University of Warwick, United Kingdom

14:45–15:00 **Title:** Structural Investigation and Hydrogenation Properties of TiFeCr Alloy
Mohanapriya Subramani, National Central University, Taiwan

15:00–15:15 **Title:** MXene-Based 2D Heterostructures for High-Efficiency Oxygen Evolution Reaction: A First-Principles Study
Sarga P K, BITS Pilani K K Birla Goa Campus, India

15:15–15:40 COFFEE BREAK

15:40–15:55 **Title:** Sustainable 3D Printing of Personalized Dosage Forms Using Biomass-Derived PLA Filaments
Dimitrios-Aristotelis Koumpakis, Aristotle University of Thessaloniki, Greece

15:55–16:10 **Title:** Cervicare: Advancing Point-of-Care Diagnostics for Cervical Cancer
Reema Rawat, UPES, India

16:10–16:25 **Title:** Analcime Zeolite from Natural Silica and Coal Fly Ash: Taguchi-Based Optimization and Adsorption Study
Bilal Haddouch, University Cadi Ayyad, Morocco

16:25–16:40 **Title:** Valorization of Phosphate Sludge through Silica Recovery: A Sustainable Approach to Transform Overlooked Mining Waste into Wealth
Hamza El Fadili, Mohammed VI University, Morocco

E-POSTER PRESENTATIONS

16:40–16:50 **Title:** Chemical Extraction of Valuable Components from End-of-Life Photovoltaic Cells
Inna Pitak, Lithuanian Energy Institute, Lithuania

16:50–17:00 **Title:** Employing Bio-inspired Lone Pair- π Interactions in Sequestration and Activation of Environmentally Detrimental Molecules
Neha Kumari, Indian Institute of Technology Kanpur, India

17:00–17:10 **Title:** Charging Rate Dependence of Lithium Ion Transfer at Positive Electrode/Solid Electrolyte Interfaces in All Solid State Lithium Ion Rechargeable Batteries
Bun Tsuchiya, Meijo University, Japan

17:10–17:20 **Title:** Encapsulation of Residual Microalgal Biomass to Produce Slow-Release Fertilizer for Hydroponic Systems
Muhammad Zubair Mohsin, University of Iceland, Iceland

DAY-3, MARCH 18, 2026

ONLINE TALKS

- 10:00–10:15 (CET)** **Title:** Circular Recovery of Critical Materials from End-of-Life Photovoltaic Modules
20:00–20:15 (AEDT) **Chitra Sulkan**, RMIT University, Australia
- 10:15–10:30 (CET)** **Title:** Title: Modelling-Based Catalytic Bio-Refining Reaction Engineering
10:15–10:30 (CET) **Blaž Likozar**, Kemijski Institut, Slovenia
- 10:30–10:45 (CET)** **Title:** Spinel Ferrite Hydroelectric Cells for Green and Sustainable Future
15:00–15:15 (IST) **S. Shankar**, University of Delhi, India
- 10:45–11:00 (CET)** **Title:** Localizing Biomass Valorization through Community Participation for Green Material
17:45–18:00 (MYT) Development.
Palsan Sannasi Bin Abdullah, Universiti Malaysia Kelantan, Malaysia
- 11:00–11:15 (CET)** **Title:** Novel Bio-Viscosity Modifiers from Agricultural Waste Biomass: Advanced Process Modeling
11:00–11:15 (WAT) for High-Efficiency Glycerol and Bio-Hydraulic Fluid Production from Natural Antioxidants
Ezekiel Iyke Ifediorah, Chukwuemeka Odumegwu Ojukwu University, Nigeria
- 11:15–11:30 (CET)** **Title:** Exploring Magnetically Recoverable Nanocatalysts for Polyester Waste Recycling
11:15–11:30 (CET) **Israel Cano Rico**, Universidad Complutense de Madrid, Spain
- 11:30–11:45 (CET)** **Title:** The Potential Gas Adsorbent from Modified MER, TNU-9, and MOR/C Zeolites: Preliminary Study
11:30–11:45 (CET) **Ariyo Prabowo Hidayanto**, University of Miskolc, Hungary
- 11:45–12:00 (CET)** **Title:** Title: Novel Nanomaterials based Microsensors for Volatile Organic Compound
16:15–16:30 (IST) Biomarkers Detection.
Aniruddh Bahadur Yadav, SRM University, India
- 12:00 – 12:15 (CET)** **Title:** A Cup of Green Coffee Leaf Tea and It's Hierarchical Assemblies
16:30–16:45 (IST) **Harsha Haridas E.S**, National Institute of Technology Calicut, India
- 12:15–12:30 (CET)** **Title:** Analysis of the Thermal Conductivity of Rendering Mortars with Natural River Aggregate
08:15–08:30 (BRT) and with Crushed Rock Sand
Ieda Maria Fagundes Zanolla, University of Vale do Rio dos Sinos, Brazil
- 12:30–12:45 (CET)** **Title:** The Sugar that Wants to Become a Liquid, How can Deep Eutectic Systems Shape the Design
11:30–11:45 (BRT) of Green Materials
Ana Rita C. Duarte, Nova School of Science and Technology, Portugal
- 12:45–13:00 (CET)** **Title:** Design, Fabrication, and Surface Modification of Ti-6Al-4V Gyroid Scaffolds Fabricated by
12:45–13:00 (CET) Laser Powder Bed Fusion Technology for Biomedical Applications
Marzieh Ebrahimi Dashti, Politecnico di Milano, Italy



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Prism Scientific Services Pty Ltd., a premier conference organizer, envisions a sustainable future for the Materials for Green Future. Our goal is to unite experts and stakeholders through conferences, fostering collaboration and advancing sustainable practices. Committed to curating conferences on Materials for Green Future and eco-friendly technologies, we catalyze the industry's development. Emphasizing interdisciplinary collaboration, our events address complex challenges. Dedicated to sustainability, we minimize footprints and promote eco-friendly venues, inspiring environmental responsibility. As catalysts for positive change, guiding the energy industry toward an innovative, environmentally responsible future in conferences that prioritize sustainable development.

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WE WISH TO SEE YOU AT MATERIALS FOR GREEN FUTURE-2027



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