



**Global Materials Science Community and Network**

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8TH EDITION OF

# ADVANCED MATERIALS SCIENCE WORLD CONGRESS

MARCH 30-31, 2026 | ROME, ITALY

**Theme: "Transforming Materials Science through Synergy and Sustainability:  
Bridging Research, Technology, and Industry"**

**ADV. MATERIALS SCIENCE 2026**

## SUB THEMES

- Pioneering the Circular Economy: Sustainable Material Innovations
- The Intersection of AI and Materials Science
- Advanced Materials in Healthcare: From Bench to Bedside
- Smart and Functional Materials
- Securing the Future: Advanced Materials in Defense and Security
- Electrifying Innovation: Materials for Energy Storage and Conversion
- The Policy Perspective: Regulatory Challenges and Opportunities

## WHY TO ATTEND?

### What you take

Attending a Materials Science conference offers a valuable opportunity to connect with experts, explore cutting-edge research, and discover sustainable innovations shaping the future of materials science and engineering. Whether you're from academia, industry, or research, you'll deepen your knowledge of advanced materials, nanotech, and composites, while gaining insight into real-world applications across various sectors. The event also fosters collaboration, professional growth, and global networking opportunities.

125<sub>+</sub>



EDUCATIONAL  
SESSIONS

60<sub>+</sub>



INTERNATIONAL  
SPEAKERS

20<sub>+</sub>



HOURS OF  
NETWORKING EVENTS

12<sub>+</sub>



INNOVATIVE  
FEATURED SPEAKERS

02



02 Day  
Conference



# WHO SHOULD ATTEND?

Materials Engineers  
Materials Scientists

Nanotechnologists  
Physicists and Chemists

Metallurgists  
Geotechnical Engineers

Biomedical Engineers  
Academics and Students

Policy Makers  
Industries

Entrepreneurs  
Students

Materials Science Colleges  
Materials Companies

Nanotechnology Companies  
Training Institutes

Associations  
Chemical Companies

Experts and Researchers (of Biotechnology, Physics, Materials Science, Nanotechnology, Biology, Environment, Medicine, Ceramics, Energy, Liquid Crystals, Plasma, Polymers Semiconductors)





EPSScentral LLC

## GARY J. DICKELMAN

CEO, EPSScentral LLC, USA



Dear Colleague,

Face-to-face opportunities to collaborate with professors, researchers, scientists, engineers, and entrepreneurs from around the globe are exceedingly rare. Professionals in Advanced Materials Science and related fields will gather in **Rome, Italy, March 30-31, 2026**, for the **8th Edition of the Advanced Materials Science World Congress**. This event offers a unique opportunity to collaborate with leading experts, exchange transformative insights, innovations, groundbreaking results, and visionary perspectives on the trajectory of advanced materials.

If your work involves 2D materials, quantum materials, advanced polymers, nanophotonics, AI/machine learning for materials discovery and R&D, fusion reactor materials, biomaterials, medicine, textiles, innovative construction materials, sustainability, or even cognitive and neuroscience that influence advanced materials innovation, Rome is your essential destination next March. You will present your research, share findings, and engage in dynamic and productive peer-to-peer discussions. Imagine the “AHA!” moments you will experience firsthand!

The need for global collaboration has never been greater. Your participation will contribute significantly to shaping a narrative with immense, positive impacts on this rapidly evolving field.

As a speaker and participant in the 2025 World Congress, I found it one of the most satisfying and stimulating professional experiences of my long career. Participating in the 8th Edition of the Advanced Materials Science World Congress will be among your most impactful professional decisions—a further opportunity to significantly advance this critical field.

Non vediamo l'ora di avervi con noi a Roma!

Warm regards,

Gary J. Dickelman  
CEO, EPSScentral LLC, USA



## WEIZHONG DAI

Louisiana Tech University, USA



As an invited speaker in the “**7th Edition of the Advanced Materials Science World Congress**” on **March 24-25, 2025** in **London UK**, I was very impressed by the conference. It brought together researchers, scientists, academicians, and industry professionals from all over the world (including Algeria, Austria, Azerbaijan, Brazil, Bulgaria, Canada, China, France, Georgia, Germany, India, Italy, Portugal, Spain, Tajikistan, Ukraine, Uruguay, USA, and many other countries) to foster knowledge sharing, idea exchange, and exploration of the latest advancements in the challenging field of advanced materials. I am deeply grateful for the conference organization for the excellent event. I applaud the conference organization for their continuous efforts to hold the “**8th Edition of the Advanced Materials Science World Congress**”, scheduled in March 2026 in the enchanting city of **Rome, Italy**. For all those who are passionately dedicated to the field of advanced materials, I highly recommend you to participate the forthcoming 8th Edition World Congress and provide your insights that contribute to your research work and the development of ground-breaking advancements.

I hope to see you in Rome, Italy.

Weizhong Dai  
Louisiana Tech University, USA





## NINO CHACHAVA

Georgian Technical University, Georgia

### Distinguished guests, esteemed scholars, researchers, and industry professionals,

It is a great honor to welcome you all to the **Advanced Materials Science World Congress 2026**. This esteemed event serves as a multidisciplinary platform where professionals from different fields converge to share their knowledge, exchange experiences, and foster collaborations that will drive innovative ideas in future.

Throughout this conference, we will explore groundbreaking advancements in materials science, bridging the gap between research, industry, and education. The innovative methods and cutting-edge projects presented by the speakers span across various domains—ranging from business-driven applications to investigative research, ultimately influencing and shaping the future of education. These discussions will help academicians, decision makers address new challenges and evolving demands in the respective fields while enhancing academic programs to meet the needs of tomorrow's cities, Architecture, Design, etc.

One of the most remarkable aspects of this congress is the dynamic synergy between leading scholars, academicians, and practitioners. Together, we form a strong alliance, ensuring that the knowledge and expertise shared here transcend beyond these sessions and into real-world applications.

This conference is not only a platform for knowledge dissemination but also a catalyst for economic development across multiple industries. By fostering new collaborations and supporting innovative ideas, we collectively contribute to the growth of scientific research, sustainable technological advancements, and the expansion of business opportunities.

As we embark on this exciting journey in 2026, let us seize this opportunity to showcase our work, engage in meaningful discussions, and lay the foundation for future scientific and industrial clusters. I encourage you all to connect, collaborate, and innovate—because it is through our combined efforts that we can truly push the boundaries of materials science and its applications.

Once again, welcome to the **Advanced Materials Science World Congress 2026**! Let's make this event a milestone in the advancement of our field.

Thank you!

Nino Chachava

Georgian Technical University, Georgia



UNIVERSIDAD  
DE LA REPÚBLICA  
URUGUAY



## BENIGNO RODRÍGUEZ DÍAZ

Facultad de Ingeniería

Universidad de la República, Montevideo, Uruguay

Dear Colleagues,

Last **24-25 March, 2025** we have had the “**7th Edition of the Advanced Materials Science World Congress**”, in **London, UK**. It was a fantastic Congress, with the assistance of distinguished researchers from all the globe. It was an incredible opportunity to listen, see and ask about the advances in different research areas related to materials. It had an excellent organization and unique atmosphere of cooperation among this very diverse team of colleagues.

The next **March 30-31, 2026**, in **Rome, Italy**, the “**8th Edition of Advanced Materials Science World Congress**” will take place, I think this is an event that you should not lose. This represents a great opportunity for transversal contact between different areas of research related to the science of materials.

See you in Rome!

Dr.-Ing. Benigno Rodríguez Díaz

Facultad de Ingeniería, Universidad de la República

Montevideo, Uruguay

# PRESENTATION FORUM

01

## KEYNOTE FORUM / MINI-PLenary SESSIONS

Presentations under Keynote Forum or Mini-Plenary Sessions includes abstracts with remarkable research value selected by the program committee. These significant speeches are delivered by globally recognized honorable speakers and it is open to all registrants.

02

## DISTINGUISHED SPEAKERS FORUM (ORAL ABSTRACT SESSIONS)

In this forum, speakers and experts of the research field gets an opportunity to showcase their noble research work that involves comprehensive research findings. These formal oral presentations include a wide range of talks covering basic research to advanced research findings in accordance to the theme and scientific sessions of the conference.

03

## STUDENT FORUM / POSTER SESSION

This session is particularly introduced to encourage more number of student participation at international conferences, however it is not restricted only to students since it is also available for the participants with language barrier. There are specific guidelines to be followed to prepare the poster. Poster topic should be selected only from relevant scientific sessions with in-depth technical details.

04

## YOUNG INVESTIGATORS FORUM

An exclusive opportunity for students and young investigators to present their research work through a formal oral presentation. Young Investigators Forum provides a global platform for young researchers and scholars to showcase their valuable contribution to the scientific world and to get acknowledged by the global scientific community of experts. It is an excellent opportunity to recognize young scientific assets with promising research ideas. These oral presentations are of shorter time duration with 10-15 minutes of informative and precise presentations in relevant scientific sessions.



05

### **EDUCATIONAL WORKSHOPS/RESEARCH WORKSHOPS/ CORPORATE WORKSHOPS/MINI- SYMPOSIA**

With an aim of transferring knowledge among the participants, workshops are introduced as a part of international conferences. These interactive and occasionally practical sessions gives an opportunity for participants to engage in detail discussion. Workshops are mostly scheduled for 60 to 90-minutes. It may range from learning about a specific topic relevant to international education, products and research which sometimes involves practical demonstration. It helps in enhancing skills, knowledge and understanding of the research field in depth through interactive discussions.

### **HIGHLIGHTS OF THE DAY SESSIONS**

“Highlights of the Day Sessions” is introduced to discuss and focus a ray upon previous day ORAL ABSTRACT presentations by experts to summarise the key findings. It helps in getting better insights into the various dimensions of the topic.



06



07

### **MEET THE PROFESSOR @ NETWORKING SESSIONS**

This session involves open discussion between the experts and session attendees, it gives enough time for getting answers to specific questions and doubts. It is an opportunity for attendees to increase their professional networking, sometimes also leads to an excellent collaboration opportunity.

### **EDUCATIONAL SESSIONS/ TRAINING PROGRAMS**

Educational Sessions or training programs are specifically designed for a better understanding of the latest findings and technologies. These are generally 45-minute sessions that gives an exposure to the multidisciplinary field, that provides in-depth learning experiences and address educational needs.



08



## ACADEMIC REGISTRATIONS

## BUSINESS REGISTRATIONS

01

### Speaker Registration

**COMBO A**  
(Registration +  
2 Night Accommodation)

**COMBO B**  
(Registration +  
3 Night Accommodation)

**Delegate Registration**

02

### Speaker Registration

**COMBO A**  
(Registration +  
2 Night Accommodation)

**COMBO B**  
(Registration +  
3 Night Accommodation)

**Delegate Registration**

## STUDENT REGISTRATIONS

## ADDITIONAL REGISTRATIONS

### Registration

YIF

**COMBO A**  
(Registration +  
2 Night Accommodation)

**COMBO B**  
(Registration +  
3 Night Accommodation)

**Posters**

### Accompanying Person

**E-Poster**

**Virtual Presentation**

**Workshops**

**Start-Ups**

03

04



# REGISTER & PARTICIPATE

ADV. MATERIALS SCIENCE 2026



# CONCURRENT EDUCATIONAL SESSIONS



**MONDAY - MARCH 30, 2026**



- Materials Science and Engineering
- Nanomaterials and Nanotechnology



- Polymer Science and Technology
- Surface Science and Engineering

GROUP PHOTO | COFFEE BREAK



- Smart Materials and Applications
- Energy Materials



- Computational Materials Science
- Crystallography

LUNCH BREAK



- Advanced Materials and Nanotechnology
- Biomaterials and Medical Devices



- Materials Physics
- Materials Chemistry

GROUP PHOTO | COFFEE BREAK



- Ceramic Materials
- Composite Materials
- Carbon and 2D Materials



- Glass Science and Engineering
- Graphene Technology
- Green Technologies



# CONCURRENT EDUCATIONAL SESSIONS



**TUESDAY - MARCH 31, 2026**



- Materials Synthesis And Processing
- Materials Characterization
- Condensed matter physics



- Theory And Modeling
- Optics
- Artificial Intelligence
- Robotics

GROUP PHOTO | COFFEE BREAK



- Metals and Alloys
- Bioinspired materials and Systems
- Synthesis and Catalysis



- Mineralogy
- Chemistry
- Semiconductors
- Biocatalysis

LUNCH BREAK



- Metallurgical and Materials Engineering
- Topological Insulators
- Energy Production and Storage



- Electronics and Photonics
- Electronic, Optical and Magnetic Materials
- Nanostructured and Structural Materials

GROUP PHOTO | COFFEE BREAK



- Perovskites
- Materials Informatics
- Selective Laser Sintering
- Metamaterials



- Dichalcogenides
- Advances In Dielectric,
- Piezoelectric Materials and Electronic Devices



# 8<sup>th</sup> EDITION OF ADVANCED MATERIALS SCIENCE WORLD CONGRESS



**March 30-31, 2026**  
**ROME, ITALY**

<https://www.materialsscienceconference.com/>

## Featured Speakers

**Gary J. Dickelman**

EPSScentral LLC, USA

**Christopher L. Hale**

North Carolina A&T State University, USA

**Svitlana Fialkova**

North Carolina A&T State University, USA

**Afsaneh Rabiei**

North Carolina State University, USA

**Ebenezer Fanijo**

Georgia Institute of Technology, USA

**Chance M. Glenn**

Alabama A&M University, USA

**S. A. K. V. M. Piyathilake**

Colorado State University, USA

**Debendra K. Das**

University of Alaska Fairbanks, USA

**Saurabh Aggarwal**

Autodesk Inc, USA

## Presentation Titles

**On an Optimal AI Framework for Materials Research, Discovery, and Application**

**Influence of Differential Speed Rolling and Post Annealing on the Microstructure and Mechanical Properties of Mg-based Alloys**

**Understanding Corrosion Resistance in Magnesium Alloys: Insights from Scanning Kelvin Probe Force Microscopy**

**Advanced Lightweight Materials for Future Energy Efficiency**

**Assessment of Corrosion Onset in Low-Carbon Steel under Chloride Exposure**

**Overcoming the Negative Energy Density Requirement in the Alcubierre Warp Drive Metric Using a Complex Dielectric Media**

**Degradation and Nano-Scale Structural Evolution of Geopolymers: Effect of Temperature, Stress and Mine Process Solutions**

**Performance Evaluation of Hydronic Air Coil for Building Heating with Nanofluids of Varying Concentrations Via Theoretical Analysis and Experimental Characterization**

**TF-ViS-CvC: an automated Transforming Vision based Cervical Cancer Screening with Pap Smear Analysis**



# SPEAKER SLOTS AVAILABLE



**Carlos Vargas Hernandez**

Universidad Nacional de Colombia, Colombia

**SERS Effect of Genomic DNA by ZnO  
Microrods C. Vargas-Hernández**

**Miguel Angel Gómez Aristizábal**

Universidad Nacional de Colombia, Colombia

**Study Of the Synthesis, Dispersion,  
And Theoretical-Experimental Analysis-  
Of Multiple-Wall Carbon Nanotubes in  
Portland Cement Improve the Corrosion  
Resistance of Embedded Steel**

**Carlos Alberto Guerrero-Fajardo**

Universidad Nacional de Colombia, Colombia

**Pea Pod Valorization: Exploring the  
Influence of Biomass/Water Ratio, Particle  
Size, Stirring, and Catalysts on Chemical  
Platforms and Biochar Production**

**Martin Schmal**

Federal University of Rio de Janeiro, Brazil

**The Cu-ZrO<sub>2</sub>@SiO<sub>2</sub> core-shell and CeZr/  
MWCNT , SBA-15 catalyst for the CO<sub>2</sub>  
hydrogenation into methanol and DME**

**Fernando Cruz de Moraes**

Federal University of São Carlos, Brazil

**Smart materials based semiconductors  
to be used in photo-electrocatalysis for  
environmental applications**

**Luiz Carlos Branquinho Caixeta Ferreira**

Federal Institute of Education, Brazil

**Wireless Communication Protocols for the  
IoT -How to Choose the Best Option**

**Carla Winter Afonso**

Universidade Católica de Petrópolis, Brazil

**Proposal for an Optimized Model for  
Customer Satisfaction**

**Fábio dos Santos Borges**

FISEPE Faculty, Brazil

**Brazilian Endolaser: Subdermal Laser  
Technique with Fiber Optic That Evolved  
from Serious Injuries and Sequelae to  
Impactful Aesthetic Results**

**Juergen Lademann**

Charite - University Medicine Berlin, Germany

**The Skin as a Reflection of Our Lifestyle**

**Rosa M. de la Cruz**

Universidad Carlos III de Madrid, Spain

**Pseudo disorder effects on optical and  
electrical properties in GaAs nanowires  
array**

**Julio Ramirez-Castellanos**

Univ. Complutense, Spain

**Microstructure and luminescent properties  
of nano-oxides derived from Zn<sub>2</sub>GeO<sub>4</sub>**

**Simona Perone**

Istat and Sapienza University of Rome, Italy

**Blockchain and Artificial Intelligence:  
The New Frontiers of Sustainability How  
Emerging Technologies Can Revolutionize  
Advanced Materials Demand and  
Verification in the Sustainability  
Landscape)**



**SPEAKER SLOTS AVAILABLE**

**Maria Amata Garito**

UNINETTUNO International Telematic University,  
italy

**New Models of University for the  
Digital Society**

**Konstantin Zsukovszki**

Wigner Research Centre for Physics, Hungary

**Ionization Dynamics in Matter with  
Resonant Nanoantennas Irradiated by  
Intense Laser Shots**

**Dariusz Jacek Jakóbczak**

Koszalin University of Technology, Poland

**Reconstruction of Multidimensional Data  
on Intelligent Technology and Artificial  
Intelligence**

**Lucjan Kozielski**

University of Silesia in Katowice, Poland

**Recent advances in lead-free ceramics  
materials for energy storage**

**Orestis Ioannidis**

Aristotle University of Thessaloniki, Greece

**Use of indocyanine green fluorescence  
imaging in the extrahepatic biliary tract  
surgery**

**Miriam Vázquez**

Universidad Michoacana de San Nicolás de  
Hidalgo, Mexico

**Structural and Modal Analysis of a  
Small Wind Turbine Blade Considering  
Composite Material**

**José Murillo**

Centro de Investigación en Materiales  
Avanzados, Mexico

**Visualization and Parameters  
Determination of Supersonic Flows in  
Convergent-Divergent Micro-Nozzles  
Using Schlieren Z-Type Technique**

**Alfredo C. Benítez-Rojas**

Instituto Politécnico Nacional, Mexico

**Recent Biotechnological Applications of  
Whey: Review and Perspectives**

**Ahad Janahmadov**

Azerbaijan National Academy of Aviation,  
Azerbaijan

**Synergetics of Fracture and Evolution  
of Interrelationship with Multi-Level  
Self-Organizing Processes in Material  
Destruction**

**Igor Chyzh**

National Technical University of Ukraine, Ukraine

**Calculation of RMS radiuses of the Point  
Spread Function using Zernike Fringe  
Coefficients**

**Orest M. Ivasishin**

G.V.Kurdyumov Institute for Metal Physics,  
Ukraine

**In Situ Ti6Al4V/TiB Composites Prepared  
by Hydrogen-Assisted Sintering of Blends  
Containing TiH<sub>2</sub>**

**V.G. Plekhanov**

Fonoriton Science Lab., Garon Ltd, Estonia

**Isotope - Based Materials Science**



**SPEAKER SLOTS AVAILABLE**

**Valery Ya. Rudyak**

Novosibirsk State University of Architecture and  
Civil Engineering, Russia

**Electrical conductivity of nanofluids with  
carbon nanotubes**

**Muhammad Hamza**

Nanjing University Of Science and Technology,  
China

**First-principles insights into  $X_2MgS_4$  ( $X =$   
Pm, Pr) spinels for energy harvesting and  
spintronic applications**

**Shuhaida yahud**

Universiti Malaysia Perlis, Malaysia

**Electrospun PVDF Membranes with GO  
and GNP Fillers: Bead Formation and  
Fiber Morphology Study**

**Maram GHAEB**

Dar Al-Hekma University, Saudi Arabia

**A sustainable approach to enhance the  
mechanical properties of cement with  
spent coffee grounds**

**Remsh Nasser Alqahtani**

King Saud University, Saudi Arabia

**Female Computer Teachers Training by the  
(TAWOCK) Model**

**Adjmi Chahd Rahyl**

King Fahd University of Petroleum and Minerals,  
Saudi Arabia

**Design And Simulation of A Metamaterial-  
Based Microstrip Antenna For Defect  
Detection In Composite And Metallic  
Materials**

**Alexander Trubayev**

National Technical University, Ukraine

**Analysis of Elevator Structures Taking Into  
Account Technological Deviations**

**Zeyad Muhammad Abdulhamid  
Abdulfattah**

Khalifa University, United Arab Emirate

**MoS<sub>2</sub>/ZnFe<sub>2</sub>O<sub>4</sub> Nanocomposites: A New  
Approach to Improve Ion/Charge Transfer  
in Supercapacitors**

**Omar Chaalal**

Abu Dhabi University, United Arab Emirates

**Global Green Process for Methanol  
Production**

**Yoshiharu Uchimoto**

Kyoto University, Japan

**Development of ultra-high-capacity  
cathode materials for all-solid-state  
fluoride batteries**

**Asma Said Khamis Al Kharusi**

Universiti Sains Malaysia, Oman

**Comparative Assessment of Membrane  
Separation and Cryogenic Distillation for  
Propane/Propylene: A Multi-Objective  
Process Intensification Approach**

**Hoi-Sing Kwo**

The Hong Kong University of Science and  
Technology, Hong Kong

**Recent Progress in Ferroelectric Liquid  
Crystals and Applications to AR/VR**



**SPEAKER SLOTS AVAILABLE**

**Tsogbayar Dashdendev**

Hanyang University, South Korea

**Multimodal Double-Helix Fiber Sensor for Independent Pressure and Strain Detection in Wearable Sensory Applications**

**N.M.MARY SINDHUJA**

Kamaraj College of Engineering & Technology,  
India

**Design and Analysis of Next Generation RF MEMS Phase Shifters for 5G Phased Array Antennas**

**Prasanta Dhak**

Techno India University, India

**Charge-Mediated Stable Low-Valence Cu on TiO<sub>2</sub> for Photocatalytic CO<sub>2</sub> to-Ethylene Production**

**Hardik Jayswal**

Dr. KC Patel Research and Development Centre  
(KRADLE), India

**AI-Powered Impurity Detection in Solid Foods: A Fusion of Spectrometry and Machine Learning**

**Gangaram Mandaloi**

Rewa Engineering College, India

**Next-Gen ISF: Feature-Guided Deformation and Hybrid Machining Techniques**

**Jayakumar S**

Sri Manakula Vinayagar Engineering College,  
India

**Enhancing the Mechanical Performance of Recycled Aggregate Concrete: The Synergistic Effects of Micro Titanium Dioxide and Steel Fibres**

**Nav Deepak**

Exide Energy Solutions Ltd., India

**Synergistic Interaction of Siloxene and Polyaniline Nanocomposite for High Performance Supercapacitor Electrodes**

**Neelam Rawat**

Uttarakhand Space Applications Centre (USAC),  
India

**Naulas of Uttarakhand: Geo-Cultural Water Harvesting Structures as Sustainable Green Technologies in the Central Himalayas**

**Ruba Palanivelu**

SASTRA Deemed University, India

**Effect of Fire and Cooling on RC Columns Strengthened using BFRP based BFEFC Materials**

**R. A. Kalaivani**

Vels Institute of Science Technology & Advanced  
Studies, India

**Design and fabrication of Punica granatum peel-derived NSCQD/ Iron hexacyanoferrate ternary composite for simultaneous detection of ascorbic acid, uric acid, and resorcinol**

**M. Archana**

Annamalai University, India

**Automatic Play-Field Analyzing and Player Tracking in Broadcast Tennis Video using Improved Kalman Filter**



**SPEAKER SLOTS AVAILABLE**

## **PEDDA NARAIHA RAIRALA**

Brilliant Institute of Engineering and Technology,  
India

**GNSS Multipath Error Analysis Based  
on Improved CEEMDAN and Detrended  
Fluctuation Analysis**

## **Avtar Singh**

Lovely Professional University, India

**From Waste to Win: Assessing  
Biodegradable Sportswear's Role in  
Sustainability and Athlete Performance**

## **K. Sushruth Samson Kumar**

Chaitanya Bharathi Institute of Technology, India

**Co-Teacher - A Tool Used for Learning  
Using LLMs**

## **Shubhangi**

Indian Institute of Technology (BHU), India

**Smart Deployable Stacked MOFs as  
Environmental Pollutant Sensors**

## **Sanjay Kumar S M**

SJB Institute of Technology, India

**Thermal Analysis of Aluminium Graphite  
Composite Heatsink**

## **Aditya Agrawal**

Prestige Institute of Engineering Management &  
Research Indore, India

**Enhancing Recycled Concrete Aggregate  
(RCA) Concrete Performance Using Jute  
Fiber as a Sustainable Reinforcement**

## **Subhranil Das**

UPES, Dehradun, India

**Advancements in Face Recognition Using  
Deep Learning Techniques: Methods and  
Advantages**

## **Sanjay Kumar S M**

SJB Institute of Technology, India

**Thermal Analysis of Aluminium Graphite  
Composite Heatsink**

## **Indra Neel Pulidindi**

Saveetha Institute of Medical and Technical  
Sciences Deemed University, India

**Catalysis for biomass conversion**

## **Melsa Magdalene Fernandes, Sharlene Anna Pereira**

Christ (Deemed to be University), India

**Efficient Intrusion Detection through Class  
Balancing and Feature Selection: A Case  
Study with SVM**

## **Azeez A. Barzinjy**

Soran University, Iraq

**Green Nanoparticle Synthesis for  
Wastewater Treatment**

## **Richa Sharma**

Galgotias College of Engineering & Technology,  
India

**High-Gain Compact Circular RFID Antenna  
for TV White Space Band Using FR4  
Substrate: A Material-Conscious Approach  
to UHF Innovation**



# **SPEAKER SLOTS AVAILABLE**



**Kalaiselvi Aasaithambi**

JSS Academy of Higher Education & Research  
(Deemed to Be University), India

**Anti-neoplastic Activity of Selected  
Essential Oil (EO)–Loaded in Niosomes  
Against HepG2 and YAC-1 Cells: An In  
Vitro Study**

**Shradhaa Narayan**

Krishnadevaraya College Of Dental Sciences,  
India

**Brazilian Endolaser: Subdermal Laser  
Technique with Fiber Optic That Evolved  
from Serious Injuries and Sequelae to  
Impactful Aesthetic Results**

**Maximilian Georg Rösger**

MITO Consulting, Germany

**Introducing MITO: A framework to align  
(material) business and innovation**

**Gyan Ranjan Biswal**

Veer Surendra Sai University of Technology, India

**Smart Materials – Smarter World:  
Enhancing Data Security without  
Compromising Data Rate using Self-  
sustained Power Sources**

**Swapna Paul**

Caritas College of Pharmacy, India

**FORMULATION AND EVALUATION OF  
NATURAL ANTI- ACNE GEL USING  
SILVER NANOPARTICLES WITH HERBAL  
EXTRACT**

**Kumaragewatthage Ramodh Devshan  
Fernando**

National University of Singapore, Singapore

**Impact of Annealing on The Performance  
of Next-Gen Ru Interconnects**

**Garam Lee**

Seoul National University, South Korea

**Soft–Rigid Hybrid Robotic Glove with  
Electroadhesive Clutch for Low-Power  
Stiffness Modulation in Post-Stroke Hand  
Therapy**

**Shaimaa Elsayed Elhusseiny**

British University In Egypt, Egypt

**From Design to Strength: Comparative  
Insights into CAD/CAM Composite and  
Lithium Disilicate Restorations**

**Hossam Mohamed AbdElRahman**

Misr International University, Egypt

**Next Generation compact 3D-Printed  
Prosthetic Arm Using AI customized  
Dataset**

**Baneesh Patial**

Dr. B R Ambedkar National Institute of  
Technology, India

**Hydrothermal Synthesis of  $\text{BiVO}_4\text{--TiO}_2$   
Type II Heterojunction for Enhanced  
Sunlight-Driven Degradation of  
Tetracycline Hydrochloride**

**Deepanshu Kaneria**

Indian Institute of technology Roorkee, India

**Tailoring Interstitial Oxygen-Mediated  
Ionic Conductivity in Mo-Doped  $\text{K}_2\text{ZnV}_2\text{O}_7$   
: A Promising Solid Oxide Electrolyte**

**Gaurav Verma**

Academy of Scientific and Innovative Research,  
India

**Effect of NaOH and Graphene Oxide on  
Jute Composite I Section Beam**

**Razia Tariq Khan**

University of Peshawar

Ex-situ Synthesis of B<sub>4</sub>C and MgAl<sub>2</sub>O<sub>4</sub> incorporated Waste Polystyrene (wPS) Composites with Improved Thermal and Mechanical Properties

**Tayfun Kurt**

Independent researcher

QGIS-Based Flood Hazard and CHIRPS Rainfall Predictions in Mecca: An Assessment of the Kaaba Region

**Amar Arab**

Université de Bouira

U-Pb zircon geochronology and P-T evolution of high grade Metapelites from the Tamanrasset area (Central Hoggar, Algeria)

**Ranasinghe Arachchige Erandi Imasha**

Centre for Defence Research and Development

Formulation And Evaluation of a Sustainable Aerosol-Based Bird (Pigeon) Repellent Incorporating Natural Compounds

**Syed Ahmad Zafar**

Virtual University of Pakistan

Sensitive Detection and Imaging of Microplastics in Packaged Water using a Computer-Based Microscopy Technique

**Jamal Uddin Ahamed**

University of Chittagong

Engineering Ultrahigh Resistivity and Low-Loss NiZn Ferrites via Mo<sup>6</sup> + Doping for Next-Generation High-Frequency Devices

**Taki Tajwar**

Chittagong University of Engineering and Technology (CUET)

Enhancing Self-Healing and Plastic Shrinkage Reduction in Superabsorbent Polymer (SAP) Concrete: Synergistic Effects of Micro-silica and Fly Ash

**Higus Gidey Welegebreal**

Mekelle University

Optimization of banana fiber treatment parameters for improved textile performance

**Haile Tadelle Abadi**

Aksum University

Challenges and opportunities in construction waste management in Shire Town, Northern Ethiopia

**Dawood Ahmed Desai**

Tshwane University of Technology

Prediction of thermal bending and vibration of a bright steel turbine rotor

**Ahmed Mourtada Elseman**

Central Metallurgical Research and Development Institute (CMRDI)

Sustainable Recycling of Spent Lead-Acid Batteries into Perovskite Thin Films via Inkjet Printing for Solar Energy

**Hersh F Mahmood**

University of Halabja

Eco-Friendly Concrete Solutions the Role of Natural and Recycled Liquid Admixtures in Sustainable Construction



**SPEAKER SLOTS AVAILABLE**

**Susan Sharma**

Kathmandu University

Phytochemicals screening, antimicrobial activities and statistical validation of bioactive compounds of *Morella rubra* Sieb.et Zucc

**Mohammad Eskandarinasab Siahkoohi**

Islamic Azad University

Quantum-Leap Decarbonization of Steel: SelfHealing Microstructures, Plasma Catalysis & Blockchain-Embedded Circularity

**Kanhaiya Bhayana**

Thapar Institute of Engineering and Technology

Adverse Weather Object Detection Using Customized YOLO Models

**Mann Elate Lea Mbassi Yves**

University of Yaounde

Positive effect of  $\text{Cu}^{2+}$  and  $\text{Ca}^{2+}$  on the thermostability of Bambara groundnut peroxidase A6, and its catalytic efficiency toward the oxidation of 3,3,5,5 -tetramethyl benzidine

**Tesfaye Feyisa**

Adama Science and Technology University

Near Infrared Thermal Emitter Based On Nano Scale Grating Metamaterial For ThermoPhotovoltaic Power Generation

**Habib Mohamad**

Tarbiat Modares University

ONLINE and multi-objective trajectory planner for robotic systems



**SPEAKER SLOTS AVAILABLE**

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## DISCOVERING

A right choice of conference destination is an important aspect of any international conference and keeping that in consideration, **Adv. Materials Science 2026** is scheduled in the Beautiful city "Rome".

## ROME

Rome, the capital of Italy, is a city steeped in history, culture, and architectural marvels. Often referred to as "The Eternal City," Rome seamlessly blends its ancient heritage with modern vibrancy, making it one of the most captivating destinations in the world.

As the heart of the Roman Empire, Rome boasts an extraordinary past dating back over 2,500 years. Iconic landmarks such as the Colosseum, Pantheon, and Roman Forum stand as testaments to its glorious history. The Vatican City, an independent city-state within Rome, is the spiritual and administrative center of the Roman Catholic Church and home to St. Peter's Basilica and the Sistine Chapel, featuring Michelangelo's breathtaking frescoes.

Rome is a haven for art lovers, with world-renowned museums such as the Borghese Gallery and Capitoline Museums housing masterpieces by artists like Caravaggio, Raphael, and Bernini. The city's architecture reflects various periods, from classical Roman to Renaissance and Baroque styles.

Italian cuisine thrives in Rome, where traditional dishes like carbonara, cacio e pepe, amatriciana, and supplì (fried rice balls) are must-tries. The city's lively piazzas, such as Piazza Navona and Campo de' Fiori, offer a charming atmosphere filled with cafés, restaurants, and street performers.



Castel Sant'Angelo



Rome Pantheon



The Roman Colosseum



The Spanish Steps



Trevi Fountain





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