

International Experts Summit on  
**Materials Science and Engineering**  
March 11-13, 2025 | Singapore

**Day 1 – March 11, 2025**

**Time (GMT)**

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|--------------------------|--|
| 09:00-09:25<br>(Oral)    | <b>Title:</b> Comparative Analysis of LED-based and Laser-based Photobiomodulation<br><b>Wen-Lian Hsu</b> , National Taiwan University, Taiwan |
| 09:30-09:55<br>(Oral)    | <b>Title:</b> Techniques of Applied Mechanical and Electrical Engineering<br><b>Abhishek Bansal</b> , New Era Consultancy Services, India      |
| 10:00-10:25<br>(Oral)    | <b>Title:</b> Interplay between Immune and Bacterial Cells on a Biomimetic Surface<br><b>Richard Bright</b> , Flinders University, Australia   |
| 10:30-10:55<br>(Oral)    | <b>Title:</b> Bioactive membranes for stem cell regulation and therapy<br><b>HU Jinlian</b> , City University of Hong Kong                     |
| 11:00-11:20<br>(Poster)  | <b>Title:</b> Optimization of methacrylated silk fibroin<br><b>Noppiman Choovet</b> , Chulalongkorn University, Thailand                       |
| 11:25-12:00<br>(Plenary) | <b>Title:</b> Perovskite – A Wonder Material for Solar Cells<br><b>Shengzhong (Frank) Liu</b> , Chinese Academy of Sciences, China             |
| 12:05-12:40<br>(Keynote) | <b>Title:</b> New methods for separating critical elements<br><b>Michael L. Free</b> , University of Utah, USA                                 |

## Lunch Break

- 14:00-14:25  
(Oral) **Title:** Innovative Dental Resins  
**Bianca Voicu**, University of Medicine and Pharmacy, Romania
- 14:30-14:55  
(Oral) **Title:** Mechanical Engineering in Healthcare  
**Andrew Choi**, Hanyang University, South Korea
- 15:00-15:30  
(Keynote) **Title:** Structural and Functional Reconstruction of the Knee Meniscus  
**Jia-Kuo Yu**, Tsinghua University, China
- 15:35-16:10  
(Plenary) **Title:** Solution of the Millennium Problem (Navier-Stokes Equations)  
**Alexander G. Ramm**, Kansas State University, USA

## End of Day 1

### Day 2 – March 12, 2025

- 09:00-09:25  
(Oral) **Title:** Graphene Quantum Dots for Water Purification  
**Omid Ashkani**, Avicenna International College, Iran
- 09:30-09:55  
(Oral) **Title:** Low Energy Buildings and Human Comfort Solutions  
**Abdeen Omer**, Energy Research Institute, UK
- 10:00-10:30  
(Keynote) **Title:** Tailoring Transport of Electrons & Ions in Energy Storage  
**Yuping Wu**, Southeast University, China
- 10:35-11:10  
(Plenary) **Title:** Thermomechanical Processes in Shape Memory Alloys  
**Osman Adiguzel**, Firat University, Turkey



- 11:15-11:40  
(Oral) **Title:** PDMS Nanoparticles for Breast Cancer Therapy  
**Sneha Singh**, Indian Institute of Technology, India
- 14:00-14:25  
(Poster) **Title:** Sample Records for Instrumental Analysis  
**William Moloto**, School of Medicine, CA, USA
- 14:30-14:55  
(Oral) **Title:** Solvent Degradation & CO<sub>2</sub> Capture  
**Ambedkar Balraj**, Sri Sivasubramaniya Nadar College, India
- 15:00-15:25  
(Oral) **Title:** Hydrophobic Graphene-Based Acrylic-Epoxy Coatings  
**Sachin Sharma Ashok Kumar**, Taylor's University, Malaysia
- 15:30-16:10  
(Keynote) **Title:** Symbiosis Between Bio-Nano-Materials & Green Energy  
**Janusz A. Kozinski**, Lakehead University, Canada

## End of Day 2

### Day 3 – March 13, 2025

- 09:00-09:25  
(Oral) **Title:** Low-Loss Magnetodielectric Materials for Microwave Antennas  
**Qifan Li**, University of Electronic Science and Technology, China
- 09:30-09:55  
(Oral) **Title:** Viral Infection & Mitochondrial Alterations in Fetal Brain  
**Segundo Mesa**, Psychiatric Hospital of Havana, Cuba

Closing Ceremony & Vote of Thanks  
**End of Conference**