



**PRISM**

INTERNATIONAL CONFERENCE ON  
**MATERIALS SCIENCE**  
AND ENGINEERING 2021

International Conference on  
**Materials Science  
and Engineering**

**October 11-14, 2021**

**Venue:** Pullman Brisbane King George Square / Zoom Meetings

**Time Zone:** Brisbane, QLD

**Zoom Meeting Links:**

**Parallel Session 1**

<https://us02web.zoom.us/j/81520874849?pwd=VnVhMGVwZTJkMEpqcWdjS1V1bklydz09>

**Parallel Session 2**

<https://zoom.us/j/98063719445?pwd=ZE5iTkVGN3U4aGRuQTg5cnd0Z1RIQT09>

**Parallel Session 3**

<https://us06web.zoom.us/j/81676922205?pwd=Q29hUUFjeiNNcmRhdUhzZERVQklsdz09>

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# ALS Co., Ltd

## Electrochemistry & Spectroelectrochemistry

### RRDE-3A Rotating Ring Disk Electrode Apparatus Ver. 3.0



#### Features:

- Operable as RDE and RRDE systems
- Remote and manual controlled rotation and gas purge
- Compact design & Easy operation
- Cell lead connects to all potentiostats
- Spin coating
- Maintenance mode operation included in the software

#### For Various Applications

ORR Measurement/Reactive Intermediates Detection  
Corrosion Study/Electro Catalysis Development/etc.

### Model 2325 Bi-Potentiostat for RRDE-3A



ALS website for  
RRDE-3A

### Reference Electrodes



### Disk Electrode & Ring Disk Electrode

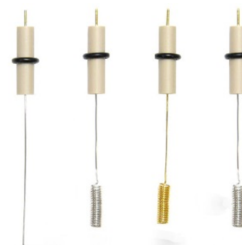


### DRE Disk Replaceable Electrode



ALS website for  
Electrodes and Accessories  
full line up

### Counter Electrodes



Manufactured by:  
ALS Co., Ltd

Exclusive distributor:  
**BAS Inc.**  
1-28-12, Mukojima, Sumida-ku,  
Tokyo 131-0033, Japan

URL: <https://www.als-japan.com>

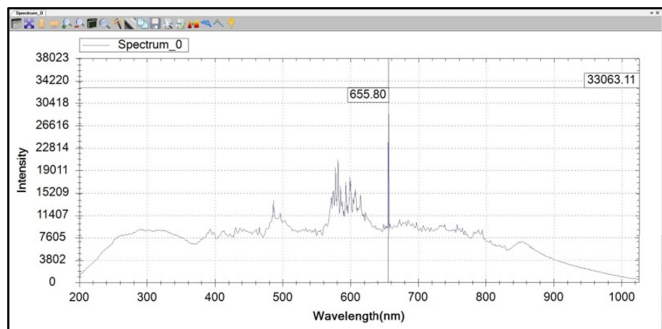




# ALS Co., Ltd

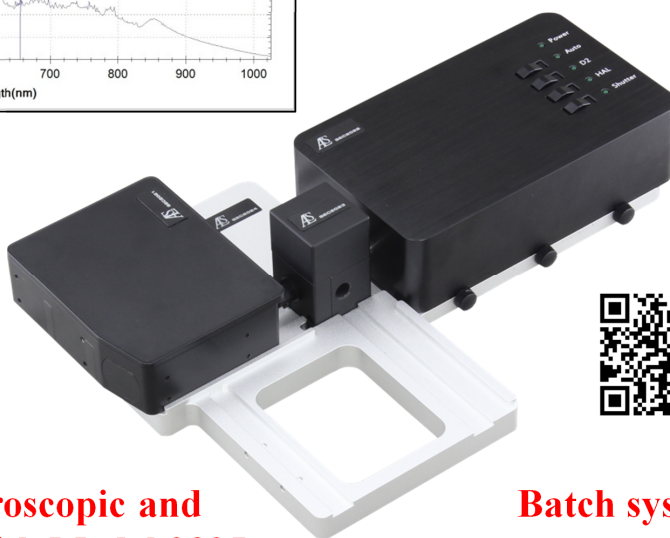
## Electrochemistry & Spectroelectrochemistry

### SEC2020 Spectrometer system



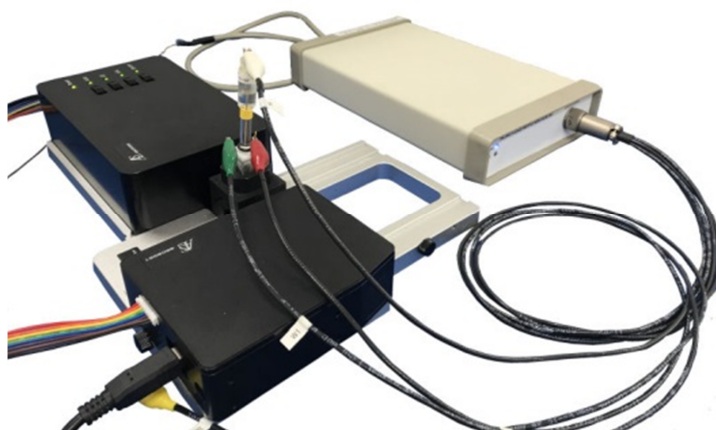
#### Features:

- Wide wavelength UV/VIS/NIR (200 – 1025 nm)
- High sensitivity, resolutions and quality
- Deuterium Halogen light source
- Measuring platform and analysis software included
- SMA 905 connection terminal
- Exclusive storage box



ALS website for  
SEC2020

### Synchronized spectroscopic and EC measurement with Model 2325



### Batch system



SEC-C

### Flow system



SEC-3F Flow cell



Manufactured by:  
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Tokyo 131-0033, Japan

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## Parallel Session 1

### Join Zoom Meeting

<https://us02web.zoom.us/j/81520874849?pwd=VnVhMGVwZT-JkMEpqcWdJS1V1bklydz09>

Meeting ID: 815 2087 4849

Passcode: 910171

Time Zone  
Brisbane, QLD

- 09:00-09:20 AV Check
- 09:20-09:30 Opening Speech

### Plenary Lecture - Presented by the JST-ERATO Special Session

**Session Chair:** Yusuke Yamauchi, *The University of Queensland, Australia*

- 09:30-10:00 **Supramolecular and Biomimetic Materials**  
Alan Rowan, *The University of Queensland, Australia*
- 10:00-10:30 **Advanced Methods of *in situ* TEM for Nanomaterial Property Analysis**  
Dmitri Golberg, *Queensland University of Technology, Australia*
- 10:30-11:00 **Surface Patterns During Solidification of Liquid Metal Alloys**  
Kourosh Kalantar-Zadeh, *University of New South Wales, Australia*
- 11:00-11:30 **Addressing the Stability Challenge of Perovskite Solar Cells**  
Lianzhou Wang, *The University of Queensland, Australia*
- 11:30-12:30 Lunch Break

### Session: Ceramics, Polymers and Composite Materials

**Session Chair:** Nasim Amiralian, *The University of Queensland, Australia*

- 12:30-12:50 **Invited Talk: Polymeric Templates for Structuring Porous Metal and Mixed Metal Oxides**  
Markus Muellner, *University of Sydney, Australia*
- 12:50-13:10 **Invited Talk: Wear Maps of Powder Injection Moulded 5 – 20 vol.% Silicon Carbide Particulate Reinforced Aluminium Composite**  
Tapany Patcharawit, *Suranaree University of Technology, Thailand*
- 13:10-13:30 **Invited Talk: An Investigation on The Adsorption Capacity and Flux of Cellulose Fibres-Mesoporous Silica Nanoparticle Composites As a Depth Filter in Two-Layer Membranes**  
Simin Miri, *Monash University, Australia*
- 13:30-13:45 **Oral Talk: Non-templated Fabrication of Pristine and Modified Poly (Vinylidene Difluoride) Patterned Membranes Through Direct Ink Writing**  
Beenish Imtiaz, *The University of Melbourne, Australia*
- 13:45-14:00 **Oral Talk: Upscaling and Sustainable Al-MOF Synthesis for Acetic Acid Capture**  
Pamela Berilyn So, *National Taiwan Normal University, Taiwan*
- 14:00-14:15 **Oral Talk: Properties and Microstructure of Epoxy-Based Polymers with Short Glass Fibres**  
Peng Yu, *University of Southern Queensland, Australia*
- 14:15-14:30 **Oral Talk: MOF-Based Membranes for Separation of Aqueous Mixtures**  
Gloria Lizeth Diaz Arenas, *Monash University, Australia*
- 14:30-15:00 Coffee Break

## Session: Ceramics, Polymers and Composite Materials

**Session Chair:** Nasim Amiralian, *The University of Queensland, Australia*

- 15:00-15:15 **Oral Talk: Wavelength-Selective Softening of Hydrogel Networks**  
Jessica Pelloth, *Queensland University of Technology, Australia*
- 15:15-15:30 **Oral Talk: Highly Stretchable Strain Sensors Based on AgNWs/PVA Nanocomposite Hydrogels**  
Shuying Wu, *Macquarie University, Australia*
- 15:30-15:45 **Oral Talk: Characterisation of 3D Printed Re-entrant Chiral Auxetic (RCA) Geometries**  
Tatheer Zahra, *Queensland University of Technology, Australia*
- 15:45-16:00 **Oral Talk: The Influence of the Carrier Structure on the Polymeric EPD Modification of PLA-based Nonwovens**  
Ewelina Pabjanczyk-Wlazole, *Lodz University of Technology, Poland*
- 16:00-16:15 **Oral Talk: Assay of the Clay Mineralogy and Non-Clay Mineralogy of a Selected Sri Lankan Brick Clay Variety**  
Suresh Aluvihara, *University of Peradeniya, Sri Lanka*

## 16:15-17:00 Session: Poster Presentations

**Session Chair:** Md Shahriar A. Hossain, *The University of Queensland, Australia*

**Sustainable Diglycidyl Ether Crosslinked Carboxymethyl Cellulose Hydrogels**  
Craig W. Stocker, *Monash University, Australia*

**Modulating Transparency and Colour of Cellulose Nanocrystal Composite Films by Varying Polymer Molecular Weight**  
Maoqi Lin, *Monash University, Australia*

**Late Advances in Functional Derivatives of Modified Agarose Polymer and Potential Biomedical Applications**  
Arash Araghi, *University of Sydney, Australia*

**Self-assembled Crystalline Ag Nanocube Monolayer for Dynamic Plasmonic Color Tuning**  
Ayana Mizuno, *Shizuoka University, Japan*

**Controlled Fabrication of Titanium Carbide (Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub>) MXene decorated with Palladium Nanoparticles for Electrochemical CO Oxidation**  
Belal Salah, *University of the Witwatersrand, South Africa*

**Carbon nitride Nanosheets as Electrodes for Capacitive Seawater Desalination**  
Ali Abdalla, *Qatar University, Qatar*

**Fabrication of Conductive Nanopapers Based on Bacterial Cellulose and Poly(3,4-ethylenedioxythiophene) by Vapor Phase Polymerization**  
Goomin Kwon, *Kyung Hee University, South Korea*

**Super-strong, Transparent, Flexible Bioplastic Film with Double-Crosslinked Cellulose Nanofibers**  
Kangyun Lee, *Kyung Hee University, South Korea*

**Two-Dimensional Materials Based Photocatalysts for Light-Induced H<sub>2</sub> Production**  
Jingrun Ran, *The University of Adelaide, Australia*

**Silver Nanowire Micropatterned Regenerated Cellulose Substrates for Green Electronics and Bioelectronics**  
Guneui Park, *Kyung Hee University, South Korea*



## Parallel Session 2

**Join Zoom Meeting**

<https://zoom.us/j/98063719445?pwd=ZE5iTkVGN3U4aGRuQT-g5cnd0Z1RIQT09>

Meeting ID: 980 6371 9445

Passcode: 074959

Time Zone  
Brisbane, QLD

### Session: Structural Materials

**Session Chair:** Muxina Konarova, *The University of Queensland, Australia*

- 12:30-12:50 **Invited Talk: Wire Arc Additive Manufacturing of Ni-Cu Alloy Components**  
Andrew Kostryzhev, *The University of Queensland, Australia*
- 12:50-13:10 **Invited Talk: Recent Advance in the Synthesis of Highly Porous Alumina Powders Using Amphiphilic Organic Molecules**  
Tatsuo Kimura, *AIST, Japan*
- 13:10-13:30 **Invited Talk: Multi-Scale 3D Printing Process to Fabricate Nano-Ordered Layered Structures**  
Ali (Rouhollah) Jalili, *University of New South Wales, Australia*
- 13:30-13:50 **Invited Talk: Rapid Structural Transformation and Click Reaction on Preparation of Superhydrophobic MOFs with Mesopore and High Surface Area**  
Chia-Her Lin, *National Taiwan Normal University, Taiwan*
- 13:50-14:05 **Oral Talk: Behaviour of Timber-Alternative Composite Sleepers on Ballast Having Different Bending and Compression Modulus**  
Choman Salih, *University of Southern Queensland, Australia*
- 14:05-14:20 **Oral Talk: The Origin of Non-uniform Plastic Deformation in a High Strength Al-Mn-Sc Based Alloy Produced by Laser Powder Bed Fusion**  
Dina Bayoumy, *Monash University, Australia*
- 14:20-14:35 **Oral Talk: Buckling Optimisation of Hollow Box Pultruded FRP Profiles using Mixed Integer Constrained Genetic Algorithm**  
Mohammad Alhawamdeh, *University of Southern Queensland, Australia*
- 14:35-15:00 Coffee Break

### Session: JST-ERATO Special Session

**Session Chairs:** Yoshiyuki Sugahara, *Waseda University, Japan*  
Takuya Nakanishi, *Waseda University, Japan*

- 15:00-15:20 **Invited Talk: Overview of the JST-ERATO Yamauchi Materials Space-Tectonics Project**  
Yusuke Yamauchi, *The University of Queensland, Australia*
- 15:20-15:40 **Invited Talk: Hierarchical Structural Control of Mesoporous Films for Optical Applications**  
Hirokatsu Miyata, *Waseda University, Japan*
- 15:40-16:00 **Invited Talk: Exploration of 2D Nanosheets and Their Heterostructures for Energy-related Applications**  
Renzhi Ma, *NIMS, Japan*
- 16:00-16:20 **Invited Talk: Formation of Nanostructured Zinc Germanium Oxynitrides**  
Yusuke Asakura, *Waseda University, Japan*
- 16:20-16:40 **Invited Talk: How Electron Distribution of Molecules Changes under The Influence of Layered Aluminosilicates and Improves Their Physicochemical Properties**  
Miharu Eguchi, *NIMS, Japan*
- 16:40-16:55 **Oral Talk: Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory**  
Nagy Torad, *NIMS, Japan*

## Parallel Session 1

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Meeting ID: 815 2087 4849

Passcode: 910171

Time Zone  
Brisbane, QLD

09:30-10:00 AV Check

### Plenary Lecture - Presented by the JST-ERATO Special Session

**Session Chair:** Yusuke Yamauchi, *The University of Queensland, Australia*

10:00-10:30 **Semiconductor Nanostructures for Optoelectronics Applications**  
Chennupati Jagadish, *Australian National University, Australia*

10:30-11:00 **Photodynamic Soft Matter Materials Enabled by Wavelength Selective Photochemistry**  
Christopher Barner-Kowollik, *Queensland University of Technology, Australia*

11:00-11:30 **Improving Supercapacitors using Computational Insight**  
Debra Bernhardt, *The University of Queensland, Australia*

11:30-12:30 Lunch Break

### Session: Electronics and Optical Materials

**Session Chair:** Carlos Salomon Gallo, *The University of Queensland, Australia*

12:30-12:50 **Invited Talk: Superlattice Frequencies of  $\text{MgB}_2$  Superconductors Probed by THz Synchrotron Radiation**  
Jose A. Alarco, *Queensland University of Technology, Australia*

12:50-13:10 **Invited Talk: Electric-field Control of Physical Properties in PMN-PT-Based Multiferroics**  
Ming Zheng, *China University of Mining and Technology, China*

13:10-13:30 **Invited Talk: Enabling Diamond Nanoelectronics by Solid-State Surface Transfer Doping**  
Dongchen Qi, *Queensland University of Technology, Australia*

13:30-13:50 **Invited Talk: Strain and Defect Engineering for the (110)-Oriented Si pMOSFETs**  
Keisuke Arimoto, *University of Yamanashi, Japan*

13:50-14:10 **Invited Talk: Epoxy-Based Solder Pastes for Fine-Pitch Electrical Joining**  
Gwang Mun Choi, *ETRI, Republic of Korea*

14:10-14:30 **Invited Talk: Broadband THz Anti-Reflection Moth-Eye Structures Formed by Femtosecond Laser Processing**  
Junji Yumoto, *The University of Tokyo, Japan*

14:30-15:00 Coffee Break

\* Prof. Gordon Wallace's presentation will be rescheduled and will be updated in the program soon.

**Session Chair:** Eka Cahya Prima, Institut Teknologi Bandung, Indonesia

- 15:00-15:20    **Invited Talk: Room-Temperature Chiral Light-Emitting Diode Based on Strained Monolayer of Transition Metal Dichalcogenides**  
Taishi Takenobu, Nagoya University, Japan
- 15:20-15:40    **Invited Talk: Topological-insulator-based Gap-surface-plasmon Metasurfaces**  
Haoran Ren, Macquarie University, Australia
- 15:40-16:00    **Invited Talk: Laser Induced Fabrication of Metal-Mesh Transparent Electrode Using Precursor Polyimide**  
Atsushi Ono, Shizuoka University, Japan
- 16:00-16:20    **Invited Talk: G-doping based Schottky Junction**  
Avto Tavkhelidze, Ilia State University, Georgia
- 16:20-16:40    **Invited Talk: Electron microscopic investigation of nanostructured WO<sub>3</sub>**  
Rajeev Kumar Rai, Indian Institute of Science, India



## Parallel Session 2

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Meeting ID: 980 6371 9445

Passcode: 074959

Time Zone  
Brisbane, QLD

### Session: Advanced Characterizations

**Session Chair:** **Dmitri Golberg**, Queensland University of Technology, Australia

- 12:30-12:50 **Invited Talk: STEM-XEDS Study of Atom Locations of Dopant Elements in Intermetallic Compounds**  
Syo Matsumura, Kyushu University, Japan
- 12:50-13:10 **Invited Talk: Flexible Thermoelectric Generator**  
Xing Wu, East China Normal University, China
- 13:10-13:30 **Invited talk: Recent Observation Techniques of Scanning Electron Microscope for Nano Particles**  
Shunsuke Asahina, JEOL Ltd., Japan
- 13:30-13:50 **Invited Talk: Operando Electronic Structure Analysis of Energy Materials/Devices using Synchrotron Radiation**  
Masaharu Oshima, The University of Tokyo, Japan
- 13:50-14:05 **Oral Talk: Microstructural Analysis and 3D Reconstruction of Lignin based Cellular Polymeric Foams Using X-ray Computed Micro-tomography**  
Hima Haridevan, The University of Queensland, Australia
- 14:05-14:25 **Invited Talk: Convolutional Neural Network-Assisted Recognition of Nanoscale L12 Ordered Structures in Face-Centred Cubic Alloys**  
Yue Li, Max-Planck Institut für Eisenforschung GmbH, Germany
- 14:25-15:00 Coffee Break

### Session: JST-ERATO Special Session

**Session Chair:** **Hirokatsu Miyata**, Waseda University, Japan

- 15:00-15:20 **Invited Talk: Nanocomposites of Boron Nitride Nanotubes/Nanosheets for Energy Applications**  
Yoshio Bando, NIMS, Japan
- 15:20-15:40 **Invited Talk: Supramolecular Magic on Liquid: Mechanical Manipulation of Molecular Machines and Stem Cells**  
Katsuhiko Ariga, NIMS, Japan
- 15:40-16:00 **Invited Talk: Modification of a Solid Surface using Self-assembled Monolayers for Biosensors and Chiral Sensors**  
Takuya Nakanishi, Waseda University, Japan
- 16:00-16:20 **Invited Talk: Nano-engineered Magnesium Diboride Superconductors for Energy and Biomedical Applications**  
Md Shahriar A. Hossain, The University of Queensland, Australia
- 16:20-16:40 **Invited Talk: Coupling Hybrid Plasmonic-photonic Resonances with Mechanical Vibrations in Long-Range Self-assembled Nanoparticle Arrays**  
Joel Henzie, NIMS, Japan
- 16:40-16:55 **Oral Talk: Thermal Treatment of Phase-Separable Polymers as a Possible Route to Functional Porous Heterostructures**  
Jan Labuta, NIMS, Japan

## Parallel Session 1

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Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: Energy and Environmental Materials

**Session Chair:** Shude Liu, NIMS, Japan

- 09:30-09:50 **Invited Talk: 2D Functional Materials for Lithium-Sulfur Batteries**  
Bin Luo, The University of Queensland, Australia
- 09:50-10:10 **Invited Talk: Coordination Polymers for Detection and Decomposition of Organophosphates**  
Yusuke Yamada, Osaka City University, Japan
- 10:10-10:30 **Invited Talk: Optimization of Structural Expansion and Contraction for  $\text{TiS}_2$  By Controlling Electrochemical Window Of Intercalation/delithiation**  
Yinsheng Xu, China University of Geosciences, China
- 10:30-10:50 **Invited Talk: Development of Flexible Solid Electrolytes Using Organic Ionic Plastic Crystals**  
Masahiro Yoshizawa-Fujita, Sophia University, Japan
- 10:50-11:10 **Invited Talk: Rate Capabilities and Power Densities in Lithium-ion Capacitors and Dual-Carbon Batteries**  
Alexey M. Glushenkov, The Australian National University, Australia
- 11:10-11:30 **Invited Talk: Development of Waterborne Heavy-duty Anticorrosive Coatings with Modified Nano-titania**  
X.J. Wang, Shantou University, China

11:30-12:30 Lunch Break

### Session: Energy and Environmental Materials

**Session Chair:** Shude Liu, NIMS, Japan

- 12:30-12:50 **Invited Talk: Rational Design of Photocatalysts for Sustainable Technologies**  
Cameron J. Shearer, The University of Adelaide, Australia
- 12:50-13:10 **Invited Talk: Interfacing Organic-Inorganic Heterojunctions for Efficient Polymer and Perovskite Solar Cells**  
Chang-Zhi Li, Zhejiang University, China
- 13:10-13:30 **Invited Talk: Explosion Welding of W/Cu and Mo/Cu Clads and Related Shock Wave Damages**  
Kazuhiro Ito, Osaka University, Japan
- 13:30-13:50 **Invited Talk: Porous Metallic Electrocatalysts**  
Liang Wang, Zhejiang University of Technology, China
- 13:50-14:10 **Invited Talk: Development of Plasmon-Enhanced Photovoltaic Cells and Photocatalysts**  
Go Kawamura, Toyohashi University of Technology, Japan
- 14:10-14:30 **Invited Talk: Synthesis of Ni-MOF Microflowers for Supercapacitor Application**  
Fei-Bao Zhang, Hangzhou Normal University, China

14:30-15:00 Coffee Break

**Session Chair:** Fei-Bao Zhang, Hangzhou Normal University, China

- 15:00-15:20    **Invited Talk: Behind Efficiencies: The Multi-pronged Approach to Improved Solar Photovoltaics**  
Hieu Nguyen, The Australian National University, Australia
- 15:20-15:40    **Invited Talk: Novel Process of Smelting Metal by Microwave Irradiation**  
Satoshi Fujii, Toyohashi University of Technology, Japan
- 15:40-16:00    **Invited Talk: Polybenzimidazole-based Membranes for use in Water Electrolysis and Flow Batteries**  
Dirk Henkensmeier, Korea Institute of Science and Technology, Korea
- 16:00-16:20    **Invited Talk: Synthesis of Zeolites by Combination of Mechanochemical and Hydrothermal Reaction Catalyzing Oxidative Coupling of Methane**  
Atsushi Muramatsu, Tohoku University, Japan
- 16:20-16:40    **Invited Talk: Hierarchically Zeolites Comprising Orthogonally Stacked MFI Nanosheets for Adsorption and Catalytic Applications**  
Chia-Min Yang, National Tsing Hua University, Taiwan
- 16:40-17:00    **Invited Talk: Microstructural Evaluation of Phase Instability in Large Bandgap Halide Perovskites**  
Jae Sung Yun, University of New South Wales, Australia
- 17:00-17:20    **Invited Talk: Cathodic Activation of Titania Fly Ash Cenospheres for Efficient Electrochemical Hydrogen Production: A Proposed Solution to Treat Fly-ash Waste**  
Mohamed Abdulhamid Ismail Amin, Taif University, Saudi Arabia
- 17:20-17:40    **Invited Talk: Materials Innovation for Future Energy Storage**  
Nasir Mahmood, RMIT University, Australia

## Parallel Session 2

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Meeting ID: 980 6371 9445  
Passcode: 074959

Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: Nanotechnology and Nanoscience

**Session Chair:** Hiroki Nara, Waseda University, Japan

- 09:30-09:50 **Invited Talk: Adventures and Discoveries in Two-dimensional Ferroelectrics**  
Sokrates T. Pantelides, Vanderbilt University, USA
- 09:50-10:10 **Invited Talk: Nanoarchitected Devices for Early Disease Detection**  
Mostafa Kamal Masud, Shahjalal University of Science and Technology, Bangladesh
- 10:10-10:30 **Invited Talk: Toward Designing High-Mechanical Performance Carbon Nanotube Structure by Machine Learning Assisted Molecular Dynamics Simulations**  
Go Yamamoto, Tohoku University, Japan
- 10:30-10:50 **Invited Talk: Synthesis of Stage-1 C60-Intercalated Graphene Films**  
Xianjue Chen, University of Newcastle, Australia
- 10:50-11:10 **Invited Talk: Nano-Mechanical Motions of Small Particles Achieved by Synergetic Use of Photochemical Reactions and Photon Pressure**  
Syoji Ito, Osaka University, Japan
- 11:10-11:30 **Invited Talk: Dirac Fermion Metagratings in Graphene**  
Ruihuang Zhao, East China Normal University, China
- 11:30-12:30 Lunch Break

### Session: Nanotechnology and Nanoscience

**Session Chairs:** Jeonghun Kim, Yonsei University, South Korea  
Tokihiko Yokoshima, Waseda University, Japan

- 12:30-12:50 **Invited Talk: Rolling vs. Sliding of a Liquid Marble-based Microreactor**  
Chin Hong Ooi, Griffith University, Australia
- 12:50-13:10 **Invited Talk: Self-assembled Nanostructure Surface**  
Hidehito Asaoka, Japan Atomic Energy Agency, Japan
- 13:10-13:30 **Invited Talk: Advancing Electrochemical Engineering of Functional 2D Nanomaterials**  
Yu Lin Zhong, Griffith University, Australia
- 13:30-13:50 **Invited Talk: Protonic Transistor with Dual Functions of Switch and Memory**  
Teruo Kanki, Osaka University, Japan
- 13:50-14:10 **Invited Talk: Synthesis of Nanoarchitected Plasmonic Metals for Surface-enhanced Raman Spectroscopy Substrates**  
Jeonghun Kim, Yonsei University, South Korea
- 14:10-14:30 **Invited Talk: Synthesis of Ordered Carbonaceous Frameworks from Metal Porphyrins**  
Koki Chida, Tohoku University, Japan
- 14:30-15:00 Coffee Break

**Session Chair:** Yusuke Asakura, Waseda University, Japan

- 15:00-15:20    **Invited Talk: Electrochemical Impedance Spectroscopy for Catalytic Reaction in Porous Structure in Polymer Electrolyte Fuel Cells**  
Hiroki Nara, Waseda University, Japan
- 15:20-15:40    **Invited Talk: Development of Square-current Electrochemical Impedance Spectroscopy and its Application to Energy Storage Devices**  
Tokihiko Yokoshima, Waseda University, Japan
- 15:40-16:00    **Invited Talk: Inorganic-Chromophore Nanohybrids**  
Jonathan Hill, NIMS, Japan
- 16:00-16:20    **Invited Talk: Controlled Release of H<sub>2</sub>S and NO from Layered Double Hydroxides**  
Shinsuke Ishihara, NIMS, Japan
- 16:20-16:40    **Invited Talk: Designed Synthesis of Nanoporous Materials by a Data-Driven Approach**  
Watcharop Chaikititilp, NIMS, Japan
- 16:40-16:55    **Oral Talk: Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors Thin Films for Optoelectronic Applications**  
Tomota Nagaura, The University of Queensland, Australia

## Parallel Session 3

Join Zoom Meeting

<https://us06web.zoom.us/j/81676922205?pwd=Q29hUUFjeIN-NcmRhUhzZERVQklsdz09>

Meeting ID: 816 7692 2205

Passcode: 961171

Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: Nanotechnology and Nanoscience

**Session Chair:** Tomota Nagauta, JX Nippon Mining & Metals Corporation; The University of Queensland, Australia

09:30-09:50 **Invited Talk: The Nonlinearity of Rare-earth Element Doped Nanoparticles for Biophotonics Applications**

Fan Wang, University of Technology Sydney, Australia

09:50-10:10 **Invited Talk: Rational Synthesis and Stability Improvement of Zeolites**

Kenta Iyoki, The University of Tokyo, Japan

10:10-10:30 **Invited Talk: Probing Phase Transition and Pattern Formation on Liquid Alloy Surfaces**

Jianbo Tang, University of New South Wales, Australia

10:30-10:50 **Invited Talk: Synthesis of Nano-Phosphors using Novel Water-assisted Solid-state Reaction Method**

Kenji Toda, Niigata University, Japan

10:50-11:10 **Invited Talk: Multi-Responsive Liquid Crystalline Supramolecular Materials**

Yoshimitsu Itoh, The University of Tokyo, Japan

11:10-11:30 **Invited Talk: Topotactic Pillaring of Layered Metal Phosphonates and Phosphates to Zeolitic Frameworks**

Kazuyuki Maeda, Tokyo University of Agriculture and Technology, Japan

11:30-12:30 Lunch Break

### Session: Nanotechnology and Nanoscience

**Session Chair:** Brian Yulianto, Institut Teknologi Bandung, Indonesia

12:30-12:45 **Oral Talk: Silica Nanoparticle-based Transparent Liquid Marble Microreactor for Non-destructive and in Situ Reaction Monitoring**

Nhat-Khuong Nguyen, Griffith University, Australia

12:45-13:00 **Oral Talk: Enhanced Effective Surface Tension Measurement Using Levitation-free Oscillating Liquid Marbles**

Pradip Singha, Griffith University, Australia

13:00-13:15 **Oral Talk: High-Resolution and Scalable Printing of Highly Conductive PEDOT:PSS for Printable Electronics**

Alexander Corletto, The University of Queensland, Australia

13:15-13:30 **Oral Talk: Self-Assembly of Nanospheres and Cellulose Nanorods in Hybrids**

Vikram Singh Raghuvanshi, Monash University, Australia

13:30-13:45 **Oral Talk: A Simple Polymeric Nanoparticle Synthesis Approach for the Facile Surface Conjugation of Functional Molecules**

Laura Haidar, The University of Sydney, Australia

13:45-14:00 **Oral Talk: Synthesis Large Porous of Mesoporous Au Nanoparticles**

Asep Nugraha, The University of Queensland, Australia



14:00-14:15 **Oral Talk: Self-Assembly of Two-dimensional Bimetallic Nickel-cobalt Phosphate Mono-dispersed Nanoplate into One-dimensional Porous Chain Like Architecture for Efficient Oxygen Evolution Reaction**  
Ni Luh Wulan Septiani, *Institut Teknologi Bandung, Indonesia*

**Sponsored Session: ALS Co., Ltd / BAS Inc.**

14:15-14:40 **Sponsored Talk: Company Introduction ALS Co., Ltd / BAS Inc.**  
Takeshi Inamori, *BAS Inc., Japan*

14:40-15:00 Coffee Break

**Session: Computational Materials**

**Session Chair:** Yunpeng Zhang, *The University of Queensland, Australia*  
Asep Nugraha, *The University of Queensland, Australia*

15:00-15:20 **Invited Talk: Introduction of Artificial Intelligence Techniques in Sheet Forming Simulation**  
Yunpeng Zhang, *The University of Queensland, Australia*

15:20-15:40 **Invited Talk: Computational Investigation of Amorphous Materials via Machine Learning Potentials**  
Yasunobu Ando, *AIST, Japan*

15:40-16:00 **Invited Talk: Towards a Molecular Understanding of the Interfacial Li-ion Dynamics in Composite Solid-State Electrolytes: the Case of polyethylene oxide: Li7La3Zr2O12 Composites**  
Mauricio Rincón Bonilla, *Basque Center for Applied Mathematics, Spain*

16:00-16:20 **Invited Talk: Predicting the Gas Sensing Performance of 2D Materials**  
Udo Schwingenschlögl, *King Abdullah University of Science and Technology, Saudi Arabia*

16:20-16:40 **Invited Talk: Multiscale Simulation of Mixed Matrix Membranes**  
Suresh K. Bhatia, *The University of Queensland, Australia*

16:40-17:00 **Invited Talk: Overcoming Failing Size Convergence for Surface Calculations of Materials Exhibiting Spontaneous Polarization**  
Su-Hyun Yoo, *Max-Planck-Institut für Eisenforschung GmbH, Germany*

17:00-17:20 **Invited Talk: Theoretical Understanding of The Mechanical Properties of 2D Materials**  
Yun Wang, *Griffith University, Australia*

## Parallel Session 1

### Join Zoom Meeting

<https://us02web.zoom.us/j/81520874849?pwd=VnVhMGVwZT-JkMEpqcWdJS1V1bklydz09>

Meeting ID: 815 2087 4849

Passcode: 910171

Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: Energy and Environmental Materials

**Session Chairs:** Kenichi Shimizu, Hokkaido University, Japan  
Toru Wakihara, The University of Tokyo, Japan

- 09:30-09:50 **Invited Talk: Alkali Metal Solid-State Batteries: Complex Interplay of Assembly/Stack Pressure and Interfacial Chemomechanical Issues**  
Dipan Kundu, The University of New South Wales, Australia
- 09:50-10:10 **Invited Talk: Mechanism of NH<sub>3</sub>-SCR by Cu-CHA Studied by Operando IR/UV-vis/XANES and DFT**  
Kenichi Shimizu, Hokkaido University, Japan
- 10:10-10:30 **Invited Talk: The Impact of K-ion Storage Performance by Materials, Binders and Electrolytes**  
Jinliang Li, Jinan University, China
- 10:30-10:50 **Invited Talk: Extremely Stable Zeolites Developed via Liquid-mediated Self-defect-healing**  
Toru Wakihara, The University of Tokyo, Japan
- 10:50-11:10 **Invited Talk: Energy Storage Applications of Microporous 3D Graphene-like Carbon Materials: Supercapacitor, Battery, and Their Hybrid System**  
Hongjun Park, Institute for Basic Science, Republic of Korea
- 11:10-11:30 **Invited Talk: Semiconductor Heterostructures for Photocatalysis Applications**  
Yung-Jung Hsu, National Chiao Tung University, Taiwan
- 11:30-12:30 Lunch Break

### Session: Energy and Environmental Materials

**Session Chairs:** Minjun Kim, The University of Queensland, Australia  
Muhammad Faisal Iqbal, Shenzhen University, China

- 12:30-12:50 **Invited Talk: Alloying Anode Materials: A Route to Enhance the Energy Density of Dual-ion Batteries**  
Thrinathreddy Ramireddy, The Australian National University, Australia
- 12:50-13:10 **Invited Talk: Electrochemical Applications of Conductive Diamond Powder/Nanoparticles**  
Takeshi Kondo, Tokyo University of Science, Japan
- 13:10-13:30 **Invited Talk: Fabrication of Molecular Crystals Showing Solid-State Magnesium Ion Conductivity**  
Makoto Moriya, Shizuoka University, Japan
- 13:30-13:50 **Invited Talk: Application of Metal-Organic Framework and Metal Oxide Composite on Catalytic Reaction and CO<sub>2</sub> Adsorption**  
Cheng-Yu Wang, National Yang Ming Chiao Tung University, Taiwan
- 13:50-14:05 **Oral Talk: Photocatalytic Degradation of Organic Compounds in Water using a ZnO/CNF Catalytic Sun-flow System**  
Mostafa Dehghani, Monash University, Australia

14:05-14:25	<b>Oral Talk: The Adsorption Properties of Na on Phosphorus-doped Graphene Nanoribbons Containing Oxygen Functional Groups as Anode Materials for Sodium-ion Batteries</b> Nenni, Institut Teknologi Bandung, Indonesia
14:25-15:00	Coffee Break
15:00-15:15	<b>Oral Talk: A Hybrid Plasma Electrocatalytic Process for Sustainable Ammonia Production</b> Jing Sun, The University of New South Wales, Australia
15:15-15:30	<b>Oral Talk: Electrochemical Behavior of Graphene oxide Based ZnS Nanowires for Energy Storage Applications</b> Muhammad Faisal Iqbal, Shenzhen University, China
15:30-15:45	<b>Oral Talk: Tailored Nanoarchitecturing of Microporous ZIF-8 to Hierarchically Porous Double-Shell Carbons and Their Intrinsic Electrochemical Property</b> Minjun Kim, The University of Queensland, Australia

#### Session: Nano-magnetism, Magnetic and Superconducting Materials

**Session Chair:** Md Shahriar A. Hossain, The University of Queensland, Australia

15:45-16:05	<b>Invited Talk: Heteroepitaxial Growth of K-doped BaFe<sub>2</sub>As<sub>2</sub> on BaFe<sub>2</sub>As<sub>2</sub></b> Kazumasa Iida, Nagoya University, Japan
16:05-16:25	<b>Invited Talk: High Spin Mixing Conductance and Spin Interface Transparency at the Interface of a Co<sub>2</sub>Fe<sub>0.4</sub>Mn<sub>0.6</sub>Si Heusler Alloy and Pt</b> Subhankar Bedanta, National Institute of Science Education and Research, India
16:25-16:45	<b>Invited Talk: Antiferromagnetic Mott Insulating State of Alkali-Metal Nanoclusters in Sodalite Studied by Muons and DFT Calculations</b> Takehito Nakano, Ibaraki University, Japan
16:45-16:55	<b>Closing Ceremony</b>

## Parallel Session 2

Join Zoom Meeting  
<https://zoom.us/j/98063719445?pwd=ZE5iTkVGN3U4aGRuQT-g5cnd0Z1RIQT09>  
Meeting ID: 980 6371 9445  
Passcode: 074959

Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: Biomaterials, Bioengineering and Bio-related Applications

**Session Chairs:** Tzu-En Lin, *National Chiao Tung University, Taiwan*  
Jiashing Yu, *National Taiwan University, Taiwan*

- 09:30-09:50 **Invited Talk: Engineering Programmable Nanoscale Tools to Manipulate Cells**  
Nicolas Voelcker, *Monash University, Australia*
- 09:50-10:10 **Invited Talk: Functionalisation of Polyester-based Biomaterials: Strengths and Limitations**  
Lisbeth Grondahl, *The University of Queensland, Australia*
- 10:10-10:30 **Invited Talk: Guiding Cells with Conductive Polymer Based Bioelectronics**  
Jiashing Yu, *National Taiwan University, Taiwan*
- 10:30-10:50 **Invited Talk: Microbial Cell Factories for Assembly of Advanced Materials**  
Bernd Rehm, *Griffith University, Australia*
- 10:50-11:10 **Invited Talk: Electrochemical Detection and Cleaning of the Contaminated Contact Lens by Using Scanning Electrochemical Microscopy with Soft Microelectrode**  
Tzu-En Lin, *National Chiao Tung University, Taiwan*
- 11:10-11:30 **Invited Talk: Stimuli-Responsive Assemblies of Gold Nanoparticles and those Applications**  
Kuniharu Ijiri, *Hokkaido University, Japan*
- 11:30-12:30 Lunch Break

### Session: Biomaterials, Bioengineering and Bio-related Applications

**Session Chairs:** Olga Guselnikova, *Tomsk Polytechnic University, Russian Federation*  
Tzu-En Lin, *National Chiao Tung University, Taiwan*

- 12:30-12:50 **Invited Talk: Detection of Pathologic Heart Murmurs Using a Piezoelectric Sensor**  
Kiichi Takahashi, *Akita University Graduate School of Medicine, Japan*
- 12:50-13:10 **Invited Talk: Mesoporous Au Films Coated by AgNps for Thiophenol Sensing in Human Cells with Multiple On-demand Recycling**  
Olga Guselnikova, *Tomsk Polytechnic University, Russian Federation*
- 13:10-13:30 **Invited Talk: Ceramic Stereolithography Printing for Diverse Applications**  
Mohammad Mirkhalaf, *The University of Sydney, Australia*
- 13:30-13:50 **Invited Talk: Self-assembled triply periodic hyperbolic surface structures**  
Lu Han, *Tongji University, China*
- 13:50-14:05 **Oral Talk: Diethyl Sinapate-decorated Cellulose Nanocrystals as Biosourced UV-filters for Cosmetic Formulations**  
David Joram Mendoza, *Monash University, Australia*
- 14:05-14:20 **Oral Talk: Chemical Synthesis and Characterization of PHBV-b-PHBV Block Copolymers**  
Jingjing Mai, *The University of Queensland, Australia*

14:20-14:35	<b>Oral Talk: Hydrolytic Degradation of Porous Poly(hydroxybutyrate-co-hydroxyvalerate) Scaffolds Manufactured Using Selective Laser Sintering</b> Rushabh Patel, <i>The University of Queensland, Australia</i>
14:35-15:00	Coffee Break
15:00-15:15	<b>Oral Talk: Role of Surface Nanotopography on Cell Migration</b> Panthihage Ruvini L Dabare, <i>University of South Australia, Australia</i>
15:15-15:30	<b>Oral Talk: Nanocellulose Hydrogel for Measuring Glucose in Blood</b> Laila Hossain, <i>Monash University, Australia</i>
15:30-15:45	<b>Oral Talk: Graphene-based Airflow Sensor for Respiration Monitoring</b> Sajad Abolpour Moshizi, <i>Macquarie University, Australia</i>
15:45-16:00	Short Break
<b>Plenary Lecture - Presented by the JST-ERATO Special Session</b>	
	<b>Session Chairs:</b> Yusuke Yamauchi, <i>The University of Queensland, Australia</i>
16:00-16:30	<b>Plenary Talk: Graphene - A New Addition to Our Biomedical Materials Inventory</b> Gordon Wallace, <i>University of Wollongong, Australia</i>
16:30-16:40	<b>Closing Ceremony</b>

## Parallel Session 3

Join Zoom Meeting

<https://us06web.zoom.us/j/81676922205?pwd=Q29hUUFjeIN-NcmRhUhzZERVQklsdz09>

Meeting ID: 816 7692 2205

Passcode: 961171

Time Zone  
Brisbane, QLD

09:00-09:30 AV Check

### Session: ITB-UQ Special Session

**Session Chair:** Muhammad Iqbal, Institut Teknologi Bandung, Indonesia

- 09:30-09:50 **Invited Talk: Preparation on Highly Sensitive Biosensors Based on Metal Organic Frameworks**  
Brian Yulianto, Institut Teknologi Bandung, Indonesia
- 09:50-10:10 **Invited Talk: Self-Assembly of Metal Phosphate Nanotubes into One and Two-Dimensional Architectures for Electrocatalytic Applications**  
Valentino Kaneti, The University of Queensland, Australia
- 10:10-10:25 **Oral Talk: Rapid Preparation of Black TiO<sub>2</sub> using Hydrogen Plasma**  
Ilham Ladia, Institut Teknologi Bandung, Indonesia
- 10:25-10:40 **Oral Talk: Nanoporous Carbon Nitride with a High Content of Inbuilt N Site for CO<sub>2</sub> Adsorption**  
Md Abdul Wahab, The University of Queensland, Australia
- 10:40-10:55 **Oral Talk: Comparison of 2D/3D Metal-Organic Framework and Its Application in Electrochemical Detection of Uric Acid**  
Syauqi Abdurrahman Abrori, Institut Teknologi Bandung, Indonesia
- 10:55-11:10 **Oral Talk: Plasma Induced Domain Engineering: An Approach to Enhance Crystallinity in Mesoporous Semiconductor Thin-films**  
Aditya Ashok, The University of Queensland, Australia
- 11:10-11:25 **Oral Talk: Synthesis and Electrochemical Evaluation of Amorphous Nickel Phosphate for Pseudocapacitive Electrode**  
Raissa, Institut Teknologi Bandung, Indonesia
- 11:25-12:30 Lunch Break

### Session: ITB-UQ Special Session

**Session Chair:** Jongbeom Na, The University of Queensland, Australia

- 12:30-12:50 **Invited Talk: Nanocellulose-Based Sustainable Products**  
Nasim Amiralian, The University of Queensland, Australia
- 12:50-13:10 **Invited Talk: Convex vs Concave Metallic Nanostructures for Electrocatalytic Applications**  
Muhammad Iqbal, Institut Teknologi Bandung, Indonesia
- 13:10-13:25 **Oral Talk: The Effect of Solvent on the Synthesis of Tungsten Trioxide Sensor for Carbon Monoxide Sensing**  
Estananto, Institut Teknologi Bandung, Indonesia
- 13:25-13:40 **Oral Talk: A General Approach to Shaped MOF-Containing Aerogels toward Practical Water Treatment Application**  
Ping Cheng, The University of Queensland, Australia
- 13:40-13:55 **Oral Talk: Synthesis of Bimetallic MOF Derived from Nickel-Cobalt Glycerate using Different Solvents**  
Muhammad Zimamul Adli, Institut Teknologi Bandung, Indonesia



13:55-14:10 **Oral Talk: Modified HKUST-1 with Addition of Triethanolamine to Perform as Label-free Electrochemical Immunosensor in NS1 Antigen Dengue Virus Detection**  
Kariana Kusuma Dewi, Institut Teknologi Bandung, Indonesia

14:10-14:25 **Oral Talk: Citric Acid Modulator-Induced Fe-BDC Metal-Organic Framework for Electrochemical Biosensing Application**  
Muhammad Taufik Ulhakim, Institut Teknologi Bandung, Indonesia

14:25-15:00 Coffee Break

#### Session: ITB-UQ Special Session

**Session Chair:** Valentino Kaneti, The University of Queensland, Australia

15:00-15:20 **Invited Talk: Performance of Non-Vacuum Fabricated Cu<sub>2</sub>ZnSn<sub>9</sub>S<sub>9</sub>Se/TiO<sub>2</sub> Solar Cell Utilizing Local Materials**  
Eka Cahya Prima, Institut Teknologi Bandung, Indonesia

15:20-15:40 **Invited Talk: Nanoarchitecture & Nanospace Engineering of Functional Materials for Emerging Applications**  
Jongbeom Na, The University of Queensland, Australia

15:40-15:55 **Oral Talk: Preliminary Studies of Iron Doped Zeolitic Imidazolate Framework-8 (ZIF-8) for Electrochemical Detection of Asparmine**  
Nurul Hanifah, Institut Teknologi Bandung, Indonesia

15:55-16:10 **Oral Talk: Atmospheric Pressure Synthesis and Morphological Study of Bicontinuous Concentric Lamellar Silica**  
Nadiatus Silmi, Institut Teknologi Bandung, Indonesia

16:10-16:25 **Oral Talk: Nanoarchitected Superparamagnetic Iron Oxide-Doped Mesoporous Carbon Nanozymes for Biosensing Application**  
S M Azad Hossain, The University of Queensland, Australia

16:25-16:40 **Oral Talk: 3D Nanostructured  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Synthesis through the Self-Assembly of  $\gamma$ -AlOOH within Reverse Micelle Template**  
Didi Prasetyo Benu, Institut Teknologi Bandung, Indonesia

16:40-16:55 **Oral Talk: The Utilization of Methane Gas for the Synthesis of Reduced Graphene Oxide using Microwave Surfatron Plasma Reactor at Atmospheric Pressure**  
Muhammad Fadhil Rizki Martha, Institut Teknologi Bandung, Indonesia

16:55-17:05 **Closing Ceremony**

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- Enter the meeting ID if prompted
- Click to join the audio.
- When you are in the meeting, click on the Start Video button to start your video.

If you already have Zoom software installed: Open the Zoom platform, click 'join' and enter the meeting ID and password.

**Note:** We have separate meeting links for each parallel session. Ensure that you follow the meeting details from the program. If you are not able to do so or have any confusion, do reach out to us via zoom chatbox or email/text.

### Mute/Unmute & Audio Settings

You can mute and unmute your microphone. The host also can mute you. We recommend using a headset and/or microphone 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.

### Screen Share

You will be allowed to share your screen during your presentation. Your computer screen will become visible to all the participants once you start sharing your screen. Please close all other applications on your computer so that notifications do not appear during your presentation. Keep the PowerPoint slide open on your system before you click the 'Share Screen' button. You are recommended to share the specific PowerPoint slide and not your desktop.

### Presentation/Clothing

Darker color shirts/blouses appear better on camera. Try to avoid busy plaid or patterned outfits.

### Q&A - Chat function

The delegate participants will drop their questions in the chat panel and the moderator/chair of the program will pick the questions to be asked after the presentation.

### Presentation Timings

Please note that all the timings mentioned in the program are per the Brisbane time zone. 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.

Below is the break down for each presentation type:

Plenary (Australian Laureate Fellowship Recipients): 25 mins talk + 5 mins Q&A

Invited Speaker: 17 mins talk + 3 mins Q&A

Oral Presentation: 12 mins talk + 3 mins Q&A

Poster Presentation: 4 minutes talk + 3 mins Q&A

### Poster Specification:

Dimensions: Maximum of 48" wide x 36" tall landscape format

File format: .pdf file

Size: Maximum of 10MB

**Note:** Posters should be submitted on or before 09 Oct. All the posters will be displayed on the website.

### Presentation Type

We recommend you to deliver your presentation in Powerpoint slideshow mode. Ensure that all your animations and videos are working fine. We also suggest you to send us a copy of your presentation so we can share it on your behalf during the talk in case of any technical glitch.

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