

# SYMPOSIUM

**DAY 2**  
**12 NOV**  
**(TUE)**

**Chair A.P. Dr. Nor Baa'Yah Ibrahim**

Glass / Ceramics / Other Materials

Venue: Ballroom

10:40 AM – 10:55 AM

**Prof. Dr. Abdul Halim Shaari**

**[Invited Speaker]**

[Paper ID: 173]

*A Brief Review on the Fundamentals of Multiferroic Materials & Their Possible Applications*

10:55 AM – 11:10 AM

**A.P. Dr. Hamimah Abd. Rahman**

[Paper ID: 011]

*Preparation of Alumina-Based Ceramics Foam with Corn Starch as Pore Former*

11:10 AM – 11:25 AM

**A.P. Dr. Hamimah Abd Rahman**

[Paper ID: 091]

*Screen Printing Methods for the Fabrication of Solid Oxide Fuel Cells (SOFCs): A Short Review*

11:25 AM – 11:40 AM

**Mr. Mohammed Zorah**

[Paper ID: 071]

*Thermomechanical Study & Thermal Behavior of Plasticized Poly(lactic Acid) Composites*

**Chair Dr. Norazila Ibrahim**

Electrics / Electronics / Magnetics

Venue: Irama 5

10:40 AM – 10:55 AM

**Prof. Dato' Dr. Roslan Abd Syukor**

**[Invited Speaker]**

[Paper ID: 143]

*Rare-Earths, Alkali & Transition Metals Effect on the Tl-1212 Type Phase Superconductors*

10:55 AM – 11:10 AM

**A.P. Dr. Ab Malik Marwan Ali**

[Paper ID: 054]

*Physical & Electrical Studies of High Molecular Weight Poly(Methyl Methacrylate) Based Solid Polymer Electrolytes*

11:10 AM – 11:25 AM

**Ms. Nur Ain Athirah Che Apandi**

[Paper ID: 065]

*Microwave Absorption Properties of Monovalent Doped  $La_{0.85}Ag_{0.15}MnO_3$  Manganite Prepared by Solid State Method*

11:25 AM – 11:40 AM

**Ms. Nurul Syahirah Nasuha Sa'aya**

[Paper ID: 030]

*Conductivity Mapping of SWCNT Dispersed in Conducting Polymer*

**Chair A.P. Dr. Mohammad  
Hafizuddin Jumali**

Optical / Photonics

Venue: Irama 6

**Chair Dr. Engku Abd Ghapur  
Che Engku Ali**

Synthesis / Carbon-Based Materials

Venue: Irama 7

**Chair Dr. Nor Ruwaida Jamian**

Biomedical / Nanotech /

Nanomaterials

Venue: Irama 8

10:40 AM – 10:55 AM

10:40 AM – 10:55 AM

10:40 AM – 10:55 AM

**Dr. Fazira Ilyana Abdul Razak  
[Invited Speaker]**

[Paper ID: 004]

*Computational Insights of Some  
Ruthenium Complexes with  
Azobenzene Derivatives for  
Non-Linear Optic Application*

**A.P. Ibtisam Abdul Wahab  
[Invited Speaker]**

[Paper ID: 099]

*Discovering Picrocrocic from the  
Extraction of Crocus Species*

**A.P. Dr. Nor Azilah Mohd Kasim  
[Invited Speaker]**

[Paper ID: 089]

*Multi-walled Carbon Nanotubes  
Functionalized with Amide for Acetone  
Detection in VENUE Temperature*

10:55 AM – 11:10 AM

10:55 AM – 11:10 AM

10:55 AM – 11:10 AM

**Ms. Azlina Yahya**

[Paper ID: 033]

*Enhanced Optical Efficiency of  
Graphene Oxide-coated Tellurite  
Glasses Doped with Erbium for  
Advanced Fiber Optics*

**Dr. Rozidawati Awang  
[Invited Speaker]**

[Paper ID: 093]

*The Optimization of a-CN<sub>x</sub> Thin Films &  
Its Humidity Sensing Properties at  
Different Substrate Temperature by  
Radio Frequency-Plasma Enhanced  
Chemical Vapor Deposition*

**Dr. Zaemah Jubri  
[Invited Speaker]**

[Paper ID: 020]

*Synthesis & Controlled Release  
Properties of Nanohybrid Zinc-  
Aluminium Layered Double Hydroxide  
Captopril*

11:10 AM – 11:25 AM

11:10 AM – 11:25 AM

11:10 PM – 11:25 PM

**Dr. Siti Nooraya Mohd Tawil**

[Paper ID: 156]

*Influence of Target to Substrate  
Distance on Structural, Microstructure  
& Optical Properties of Sputtered Gd-  
doped ZnO Thin Films*

**Ms. Ain Zanaya Zanuri**

[Paper ID: 069]

*Synthesis of Graphene Oxide from  
Waste Tyre using Sodium Nitrate &  
Phosphoric Acid as Precursor in  
Hummers Method*

**Ms. Nur Ain Syafiqah Sudin**

[Paper ID: 135]

*Thermomechanical, Crystallization &  
Melting Behavior of Plasticized Poly  
(Lactic Acid) Nanocomposites*

11:25 AM – 11:40 AM

11:25 AM – 11:40 AM

11:25 AM – 11:40 AM

**Ms. Nur Aina Mardia Adnan**

[Paper ID: 061]

*Optimum Lasing Cavity for Erbium  
Doped Zinc Tellurite Glass Doped with  
Ag Nanoparticles*

**Ms. Nor Maisarah Yunus**

[Paper ID: 044]

*Evaluation of Superoleophilic-  
Hydrophobic Kapok Fibres as Effective  
Oil Sorbents*

**Mr. Syed Jamal Ahmed Kazmi**

[Paper ID: 015]

*Solution Process Growth of Co, Bi &  
Mn Doped Zinc Oxide Nanowires by  
Hydrothermal Method*

# SYMPOSIUM

**DAY 2**  
**12 NOV**  
**(TUE)**

**Chair A.P. Dr. Auwalu Inusa  
Abubakar**

Glass / Ceramics / Other Materials

Venue: Ballroom

14:55 PM – 15:10 PM

**A.P. Dr. Lim Kean Pah**

[Invited Speaker]

[Paper ID: 017]

*Effect of TiO<sub>2</sub> Concentration on the  
Structural & Electrical Properties of  
Nd<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> Composites*

15:10 PM – 15:25 PM

**Ms. Siti Nasuha Mohd Rafien**

[Paper ID: 013]

*FTIR & Optical Properties of Samarium  
Doped Zinc Borotellurite Glasses*

15:25 PM – 15:40 PM

**Ms. Nurul Asyikin Ahmad Sukri**

[Paper ID: 014]

*Optical Properties of Silica Borotellurite  
Glass Doped with Samarium (III) Oxide*

15:40 PM – 15:55 PM

**Mr. Lik Nguong Lau**

[Paper ID: 016]

*Structural & Electrical Properties of  
La<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3</sub>/Fe<sub>2</sub>O<sub>3</sub> Composites*

**Chair A.P. Dr. Ab Marwan**

**Malik Ali**

Electric / Electronics / Magnetics

Venue: Irama 5

14:55 PM – 15:10 PM

**Prof. Dr. Azhan Hashim @ Ismail**

[Invited Speaker]

[Paper ID: 142]

*AC Susceptibility & Superconducting  
Properties of Low Density  
Bi<sub>1.6</sub>Pb<sub>0.4</sub>Sr<sub>2</sub>(Ca<sub>2-x</sub>Yb<sub>x</sub>)<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub>  
Superconductor*

15:10 PM – 15:25 PM

**A.P. Dr. Chen Soo Kien**

[Invited Speaker]

[Paper ID: 183]

*Study of Dielectric Properties of  
Polycrystalline Ex-situ Magnesium  
Diboride*

15:25 PM – 15:40 PM

**Ms. Siti Fatimah Saipuddin**

[Paper ID: 113]

*Structural & Electronic Properties of Ag-  
doped in Ba-site of YBa<sub>2-x</sub>Cu<sub>3</sub>O<sub>7</sub> using  
Density Functional Theory via First  
Principle Study*

15:40 PM – 15:55 PM

**Ms. Nurul Auni Khalid**

[Paper ID: 169]

*Impact of Zinc Ferrite Nanoparticles on  
Transport & Superconducting Properties  
of (Ti<sub>0.85</sub>Cr<sub>0.15</sub>)Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>7</sub> Bulk  
Superconductors*

**Chair Dr. Siti Amira Othman**

Glass / Ceramics / Other Materials

Venue: Irama 6

14:55 PM – 15:10 PM

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**Prof. Dr. Ong Keat Khim**

[Invited Speaker]

[Paper ID: 090]

*Green Approach of Rice (MR219)*

*Treatment using a 2-D Clinostat:*

*Factorial Design Analysis*

15:10 PM – 15:25 PM

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**Ms. Lidyayatty Abdul Malik**

[Paper ID: 112]

*Phase Formation & Morphology of*

*NiO-BCZY Anode Functional Layer for*

*Proton Conducting Fuel Cell*

15:25 PM – 15:40 PM

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**Mr. Mageswaran A/L Ravi Chandran**

[Paper ID: 117]

*Acoustic Performance of Natural Fibres*

*of Oil Palm Frond (OPF) & Empty Fruit*

*Bunch (EFB)*

15:40 PM – 15:55 PM

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**Dr. Mazlina Mustafa Kamal**

[Paper ID: 053]

*Enhancement of Heat Ageing Properties*

*of Epoxidised Natural Rubber Blend for*

*Automotive Application*

**Chair: Dr. Rozidawati Awang**

Synthesis / Carbon-Based

Materials

Venue: Irama 7

14:55 PM – 15:10 PM

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**Dr. Richard Ritikos**

[Invited Speaker]

[Paper ID: 131]

*Ni Catalytic Effects on the Growth of*

*PECVD & HF-PECVD Transfer-Free*

*Graphene*

15:10 PM – 15:25 PM

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**Dr. Nor Ruwaida Jamian**

[Paper ID: 140]

*Effect of Prekotac As Filter Aids on*

*Pressure Drop & Particle Penetration in*

*Pilot Plant Fabric Filtration System*

15:25 PM – 15:40 PM

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**Ms. Zainab Sulaiman**

[Paper ID: 150]

*Solid State Synthesis & Characterization*

*of Cu(II) & Ni(II) Polynuclear Metal*

*Complexes with Ligand Derived from*

*3-Methoxy-4-Hydroxy Benzaldehyde &*

*L-Leucine*

15:40 PM – 15:55 PM

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**Ms. Ismaliza Ismail**

[Paper ID: 158]

*Effect of pH & Immersion Time on the*

*Corrosion Protection of SDBS-ZnSO<sub>4</sub>*

*Pre-Treated Mild Steel in Sodium*

*Chloride Solution*

**Chair Dr. Siti Nooraya**

**Mohd Tawil**

Biomedical / Nanotech /

Nanomaterials

Venue: Irama 8

14:55 PM – 15:10 PM

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**A.P. Dr. Aris Doyan**

[Invited Speaker]

[Paper ID: 138]

*The Optical Properties of Thin Films Tin*

*Oxide with Triple Doping (Aluminum,*

*Indium & Fluorine) for Electronic Device*

15:10 AM – 15:25 AM

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**Mr. Ismaila Abdullahi**

[Paper ID: 001]

*Synthesis, Characterization, Anti-*

*microbial Activity & in Vitro Bioactivity of*

*Chitosan Hydroxyapatite Composite*

*Doped with Strontium*

15:25 PM – 15:40 PM

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**Ms. Nur Atikah Shaari**

[Paper ID: 064]

*Synthesis & Characterization of*

*Polyaniline Thin Film: Effect of pH &*

*Concentration*

15:40 PM – 15:55 PM

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**Ms. Syazana Sulaiman**

[Paper ID: 085]

*Effect of Particle Size on Cu(II) Ion*

*Removal from Aqueous Solution using*

*Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Adsorbents*

*Synthesized from Mill Scale Waste*

# 3 M O S E S

**DAY 2**  
**12 NOV**  
**(TUE)**

**Chair Dr. Mohd Hafiz Mohd Zaid**  
Glass / Ceramics / Other Materials  
Venue: Ballroom

16:00 PM – 16:15 PM

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**Dr. Fadhlina Che Ros**  
[Invited Speaker]  
[Paper ID: 031]  
*Forming & the Non-Forming Phases of LaZrTa<sub>3</sub>O<sub>11</sub> Analogues*

16:15 PM – 16:30 PM

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**Dr. Wan Yusmawati Wan Yusoff**  
[Invited Speaker]  
[Paper ID: 080]  
*The Effect of Blast Exposure Distance on Hardness & Reduced Modulus Properties of Lead Free Solder*

16:30 PM – 16:45 PM

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**Dr. Muhammad Noorazlan Abd Azis**  
[Paper ID: 019]  
*Effect of Holmium Oxide on Optical Performance of Borotellurite Glass*

16:45 PM – 17:00 PM

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**Dr. Zubair Ahmad**  
[Paper ID: 182]  
*CO<sub>2</sub> Gas Sensor based on Polyaniline/ Cu-ZnS Hollow Microsphere Composite*

**Chair A.P. Dr. Nafisah Osman**  
Electrics / Electronics / Magnetics  
Venue: Irama 5

16:00 PM – 16:15 PM

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**A.P. Dr. Yap Chi Chin**  
[Invited Speaker]  
[Paper ID: 160]  
*Improved Performance of Inverted Type Organic Solar Cell using Copper Iodide-Doped P3HT:PCBM as Active Layer*

16:15 PM – 16:30 PM

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**Ms. Nur Sofina Muhamad Johari**  
[Paper ID: 147]  
*Structural & Conductivity Properties of Na<sub>2</sub>ZnSiO<sub>4</sub>-Py<sub>14</sub>TFSI Hybrid Solid Electrolyte for Sodium-Ion Batteries*

16:30 PM – 16:45 PM

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**Ms. Amirah Natasya Ishak**  
[Paper ID: 022]  
*Structural & Electrical Properties of Nd-Sr-Mn-O/CuO by Solid-State Reaction Method*

16:45 PM – 17:00 PM

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**Dr. Lim Joon Hoong**  
[Paper ID: 121]  
*Band Structure & Thermoelectric Properties of Ni(x)Zn(1-x)Fe<sub>2</sub>O<sub>4</sub>*

## Chair Dr. Pao Ter Teo

Glass / Ceramics / Other Materials

Venue: Irama 6

16:00 PM – 16:15 PM

**A.P. Dr. Mohd Sabri Mohd Ghazali**  
[Invited Speaker]

[Paper ID: 159]

*Nonlinearity Characteristics of Zn-Bi-Ti-O Varistor Ceramics Doped with Sb<sub>2</sub>O<sub>3</sub> Prepared by Co-Precipitation Method*

16:15 PM – 16:30 PM

**Ms. Nur Quratul Aini Ismail**

[Paper ID: 118]

*Effect of SLS Glass Doping on ZnO Varistor Ceramics: Dry Milling Process*

16:30 PM – 16:45 PM

**Mr. Mohamad Ariff Mohd Halmi**

[Paper ID: 104]

*The Effects of Tungsten Carbide WC-Co Thermal Spray Coating on Mechanical Properties of Carbon Steel*

16:45 PM – 17:00 PM

**Mr. Muhamad Syaizwadi Shaifudin**

[Paper ID: 130]

*Nonlinearity Characteristics of ZnO Varistors Tailored by Perovskite-BaTiO<sub>3</sub> & Cobalt Dopants*

## Chair Dr. Noor Aisyah Ahmad Shah

Synthesis / Carbon-Based Materials

Venue: Irama 7

16:00 PM – 16:15 PM

**A.P. Dr. Susilawati**

[Invited Speaker]

[Paper ID: 137]

*Synthesis & Characterization Barium M-Hexaferrites (BaFe<sub>12-2x</sub>Co<sub>x</sub>Mn<sub>x</sub>Ni<sub>x</sub>O<sub>19</sub>) as a Microwave Absorbent Material*

16:15 PM – 16:30 PM

**Mr. Wee Jie Gong**

[Paper ID: 027]

*Biosynthesis of Silver Particles using Citrus Microcarpa Peels Extract*

16:30 PM – 16:45 PM

**Ms. Mas Amira Idayu Abd Razak**

[Paper ID: 040]

*Synthesis of Antidote Conjugation with Oximes for Chemical Warfare Agents*

16:45 PM – 17:00 PM

**Mr. Lim Hong Hua**

[Paper ID: 048]

*Synthesis of Carbide Lime Derived Solid Superbase Catalyst for Biodiesel Production*

## Chair A.P. Dr. Aris Doyan

Biomedical / Nanotech /

Nanomaterials

Venue: Irama 8

16:00 PM – 16:15 PM

**Dr. Juan Matmin**

[Invited Speaker]

[Paper ID: 123]

*Supramolecular Interactions in Aromatic Structural Units for Non-Optical & Optical Detection*

16:15 PM – 16:30 PM

**Ms. Nur Ain Syafiqah Sudin**

[Paper ID: 024]

*Mechanical Properties & Thermal Behavior of Poly(lactic acid) Composites Reinforced with TiO<sub>2</sub> Nanofiller*

16:30 PM – 16:45 PM

**Ms. Monica Limau anak Jadam**

[Paper ID: 046]

*Synthesis of Calcium/Aluminium-Ciprofloxacin-Layered Double Hydroxide for a New Antibacterial Drug Formulation*

16:45 PM – 17:00 PM

**Ms. Eydar Tey**

[Paper ID: 073]

*Effect of Mechanical Agitation on Cr-Al<sub>2</sub>O<sub>3</sub> Nanocomposite Coatings Fabricated from Trivalent Chromium Electrodeposition*

# CONGRESS

**DAY 3**  
**13 NOV**  
**(WED)**

**Chair Dr. Alinda Samsuri**

Glass / Ceramics / Other Materials

Venue: Ballroom

09:55 AM – 10:10 AM

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**Dr. Siti Aminah Mohd Noor**

[Invited Speaker]

[Paper ID: 098]

*Relationship Between Spectroscopic & Thermal Analysis of Poly(ethylene oxide) (PEO)-50% Epoxidized Natural Rubber (ENR50) Complexed with Sodium Trifluoromethanesulfonate Based Polymer Electrolyte*

10:10 AM – 10:25 AM

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**A.P. Dr. Hariati Taib**

[Paper ID: 032]

*Fabrication of Silica (SiO<sub>2</sub>) as-derived from Rice Husk Ash Foam via Polymeric Replication Method*

10:25 AM – 10:40 AM

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**Ms. Nurul Ain Mohamad Samsudin**

[Paper ID: 060]

*Elastic Properties of (80-x)B<sub>2</sub>O<sub>3-x</sub>TeO<sub>2</sub>-10Li<sub>2</sub>O-10Al<sub>2</sub>O<sub>3</sub> Mixed Network Former Glass System*

10:40 AM – 10:55 AM

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**Ms. Noor Fadhilah Rahmat**

[Paper ID: 029]

*Effect of Gamma Radiation on Micromechanical Behaviour in Microelectronic Packaging*

**Chair A.P. Dr. Abdullah Chik**

Electrics / Electronics / Magnetics

Venue: Irama 5

09:55 AM – 10:10 AM

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**A.P. Dr. Noor Baa'Yah Ibrahim**

[Invited Speaker]

[Paper ID: 049]

*Impact of Ba/Fe Molar Ratio on the Structural & Magnetic Properties of BaFe<sub>12</sub>O<sub>19</sub> Film Synthesized by a Sol-Gel Method*

10:10 AM – 10:25 AM

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**Ms. Aaliyawani Ezzerin Sinin**

[Paper ID: 035]

*High Dielectric Permittivity of La<sub>0.88</sub>Bi<sub>0.12</sub>Mn<sub>0.80</sub>Ni<sub>0.20</sub>O<sub>3</sub> Composite*

10:25 AM – 10:40 AM

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**Mr. Muhammad Zharfan Mohd Halizan**

[Paper ID: 063]

*Dielectric & AC Conductivity Studies of Sr<sub>x</sub>LiTeO<sub>6</sub> (x = La, Nd) Double Perovskites*

10:40 AM – 10:55 AM

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**Ms. Masnita Mat Jusoh**

[Paper ID: 148]

*Ferrimagnetic Cr<sub>2</sub>S<sub>3</sub> Effect on (Bi,Pb)-Sr-Ca-Cu-O Superconductor*

## Chair Dr. Mazlina Mustafa Kamal

Glass / Ceramics / Other Materials

Venue: Irama 6

09:55 AM – 10:10 AM

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### Dr. Mohd Hafiz Mohd Zaid

[Invited Speaker]

[Paper ID: 133]

*Effect of Heat Treatment to the Properties of Zinc Silicate based Glass-Ceramics*

10:10 AM – 10:25 AM

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### Ms. Maria Fazira Mohd Fakeri

[Paper ID: 134]

*Green Approach in Anti-Corrosion Coating by using Andrographis Paniculata Leaves Extract as Additives of Stainless Steel 316L in Seawater*

10:25 AM – 10:40 AM

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### Mr. Ahmed Elsherbiny

[Paper ID: 139]

*The Effect of Cooling Rate at the Cooling Bed Step on the Volume Fraction of the Constituent Phases of the Tempcore Steel Rebar*

10:40 AM – 10:55 AM

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### Mr. Wan Mohamad Ikhmal Wan Mohamad Kamaruzzaman

[Paper ID: 012]

*Corrosion & Microbial Inhibition Characteristic of Local Herb (Petai Belalang) on Stainless Steel (316L) in Seawater*

## Chair Dr Siti Zulaikha Ngah Demon

Synthesis / Carbon-Based Materials

Venue: Irama 7

09:55 AM – 10:10 AM

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### Dr. Rosnah Zakaria

[Invited Speaker]

[Paper ID: 116]

*Ionic Conductivity in Carboxymethyl Cellulose (CMC) Biopolymer Membrane Incorporated with Ammonium Thiocyanate,  $NH_4SCN$*

10:10 AM – 10:25 AM

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### Dr. Norli Abdullah

[Invited Speaker]

[Paper ID: 009]

*Synthesis, Characterization & Catalytic Activity of Pd Nanoparticles Supported on Anatase ( $Pd/TiO_2$ )*

10:25 AM – 10:40 AM

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### Ms. Nurshahiera Rosdi

[Paper ID: 110]

*The Effect of Sintering Temperature on Structural & Microwave Properties of Barium Hexaferrite Derived from Mill Scale*

10:40 AM – 10:55 AM

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### Mr. Mohd Fairul Sharin Abd Razak

[Paper ID: 125]

*Photocatalytic Degradation of Methylene Blue by using Immobilized  $TiO_2$  Graphene Composite*

## Chair Dr. Fazira Ilyana Abd Razak

Biomedical / Nanotech / Nanomaterials

Venue: Irama 8

09:55 AM – 10:10 AM

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### Dr. Norherdawati Kasim

[Invited Speaker]

[Paper ID: 028]

*Study on the Impact of pH Adjustment to Remove Metallic Ions using Membranes*

10:10 AM – 10:25 AM

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### Mr. Laimy Mohd Fudzi

[Paper ID: 070]

*Influence of Applied Potential on Electrodeposited ZnSe/ZnO Nanostructured Films for Photo-electrochemical Cell*

10:25 AM – 10:40 AM

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### Dr. Mohd Nor Faiz Norrahim

[Paper ID: 045]

*Nanocellulose-based Filters as Novel Barrier Systems for Chemical Warfare Agents*

10:40 AM – 10:55 AM

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### Ms. Noor Hidayah Aniza Zakaria

[Paper ID: 057]

*Influence of Surfactant on the Synthesis of NiO Nanoparticles by Sol-gel Method*



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NOV

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CONFERENCE

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2023

**DAY 3**  
**13 NOV**  
**(WED)**

## Chair A.P. Dr. Mohd Sabri Mohd Ghazali

Glass / Ceramics / Other Materials

Venue: Ballroom

11:30 AM – 11:45 AM

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**Prof. Dr. Md Rahim Sahar**

**[Invited Speaker]**

[Paper ID: 039]

*Comparative Spectroscopic Studies on Luminescence Performance of Er<sup>3+</sup> doped Tellurite Glass Embedded with Nanoparticles at 0.55 m Emission*

11:45 AM – 12:00 PM

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**Dr. Siti Zafirah Zainal Abidin**

[Paper ID: 050]

*Enhanced Mg Ion Transport in Cellulose Acetate based Gel Polymer Electrolytes: Effect of Plasticizer*

12:00 PM – 12:15 PM

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**Dr. Siti Amira Othman**

[Paper ID: 034]

*Feasibility of Irradiated Corn-Based Bioplastics as Packaging Material*

12:15 PM – 12:30 PM

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**Mr. Muntari Mudi Yaradua**

[Paper ID: 003]

*Key Properties and Benefits of Clay in Environmental Protection*

12:30 PM – 12:45 PM

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**Ms. Nor Anizah Mohamad Aini**

[Paper ID: 127]

*Influence of Hydroxymethylated Lignin on Mechanical Properties & Payne Effect of NR/BR Compounds*

12:45 PM – 13:00 PM

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**Ms. Dayang Habibah Abang Ismawi Hashim**

[Paper ID: 038]

*Fatigue Crack Growth of Natural Rubber/Butadiene Rubber Blend Containing Waste Tyre Rubber Powders*

## Chair Dr. Siti Aminah Mohd Noor

Electrics / Electronics / Magnetics

Venue: Irama 5

11:30 AM – 11:45 AM

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### A.P. Dr. Norhana Abdul Halim [Invited Speaker]

[Paper ID: 162]

*Localized Deep & Shallow Traps of Peaks from Thermally Stimulated Current (TSC) Measurement on Thermoplastic Polymers*

11:45 AM – 12:00 PM

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### Dr. Nor Azah Nik Jaafar

[Paper ID: 120]

*Effect of Fe Doping on Structural, Electrical & Magnetic Properties of  $La_{0.7}Ca_{0.3}Mn_{1-x}Fe_xO_3$  ( $x = 0, 0.01, 0.03$  &  $0.05$ ) Perovskite Manganite Materials*

12:00 PM – 12:15 PM

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### Ms. Norhaslin Che Su

[Paper ID: 077]

*The Electrochemical Performance of Superconcentrated Na<sup>+</sup> Salt in Ionic Liquid- based Gel Electrolytes for Application in Sodium Rechargeable Batteries*

12:15 PM – 12:30 PM

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### Ms. Noor Wahidah Zainol Jamil

[Paper ID: 051]

*The Response of Ion Selective Electrode Based on Aryl Methyl Carbonylamino Thiazole Derivatives as Ionophore*

12:30 PM – 12:45 PM

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### Ms. Ainil Hawa Jasni

[Paper ID: 042]

*Preliminary Electrical Studies on Enzyme- Based BioSensor*

12:45 PM – 13:00 PM

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### Mr. Muhammad Syahir Sak Ari

[Paper ID: 037]

*Electrochemical Studies of Polymer Gel Electrolytes based on Agarose:LiBOB & P(VP-co-VAc):LiBOB*

## Chair Dr. Lim Joon Hoong

Optical / Photonics / Other  
Materials

Venue: Irama 6

11:30 AM – 11:45 AM

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### A.P. Dr. Rozalina Zakaria [Invited Speaker]

[Paper ID: 177]

*High-Sensitivity Single/Double Layer Coating Side Polished Optical Fiber Refractive Index Sensor Based on Surface Plasmon Resonance*

11:45 AM – 12:00 PM

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### Dr. Azman Kasim

[Invited Speaker]

[Paper ID: 175]

*Role of Sm<sup>3+</sup> Ions on the Optical Properties of Borotellurite Glass under 480nm Excitation Wavelength*

12:10 PM – 12:15 PM

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### Dr. Ts. Abd Rahman Tamuri

[Paper ID: 187]

*Structural & Optical Properties of Europium Doped & Dysprosium Co-Doped with Yttrium Aluminium Garnet Nanocrystalline Powder Prepared By Combustion Synthesis*

12:15 AM – 12:30 AM

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### Mr. Jibrin Alhaj Yabagi

[Paper ID: 108]

*Investigation of Chemical & Optical Properties of Polystyrene/Silver Nanocomposites*

## Chair Dr. Richard Ritikos

Synthesis / Carbon-Based Materials

Venue: Irama 7

11:30 AM – 11:45 AM

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**A.P. Dr. Nafisah Othman**

[Invited Speaker]

[Paper ID: 161]

*Impact of Zr Substitution on the Crystal Structure of Yb doped BaCeO<sub>3</sub> Solid Solution Prepared by Sol-gel Method*

11:45 AM – 12:00 PM

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**Dr. Engku Abd Ghapur Che Engku Ali**

[Paper ID: 062]

*Study on Milling Time & Composition of Mechanical Milled Graphite Powder Effect as Filler in MDPE Composite to Physical & Tensile Properties*

12:00 PM – 12:15 PM

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**Ms. Siti Aisyah Abd Wahab**

[Paper ID: 163]

*Synthesis & Enhancement of Luminescence Properties of Co<sup>2+</sup>: Zn<sub>2</sub>SiO<sub>4</sub> Willemite based Glass Ceramic Derived for Potent Optoelectronic Applications*

12:15 PM – 12:30 PM

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**Dr. Ahmad Farid Mohd Azmi**

[Paper ID: 109]

*Modification of Gold Electrodes using Reduced Graphene Oxide for Cortisol Electrochemical Biosensor*

## Chair Dr. Zaemah Jubri

Nanomaterials / Nanotech / Other Materials

Venue: Irama 8

11:30 AM – 11:45 AM

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**Dr. Goh Boon Tong**

[Invited Speaker]

[Paper ID: 083]

*Controlled Growth of Root-Free Ni<sub>3</sub>Si<sub>2</sub> Nanowires for High-Performance Supercapactor Electrode*

11:45 AM – 12:00 PM

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**Ms. Annisa Azlan**

[Paper ID: 094]

*Synthesis & Controlled Release Properties of Nanohybrid Zinc-Aluminium Layered Double Hydroxide - Captopril*

12:00 PM – 12:15 PM

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**Mr. Tan Huey Jing**

[Paper ID: 076]

*Sol Precursor Concentration Effect on Synthesis & Characterization of ZnO Nanoparticles Film*

12:15 AM – 12:30 PM

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**Dr. Nur Aisyah Abd Fataf**

[Paper ID: 128]

*Generalized Function Projective Synchronization of 4D Chaotic Laser System for a Secure Communication*

12:30 PM – 12:45 PM

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**Mr. Huang Shen Chua**

[Paper ID: 146]

*Development of a Computer-based Data Acquisition & Performance Analysis of Fuzzy-PID Hybrid Temperature Control for Torrefaction*

12:45 PM – 13:00 PM

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**Ms. Nurjahirah Janudin**

[Paper ID: 036]

*Effect of Different Drying Method on the Morphology of Nanocellulose*

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**DAY 3**  
**13 NOV**  
**(WED)**

**Chair A.P. Dr. Lim Kean Pah**

Glass / Ceramics / Other Materials

Venue: Ballroom

14:55 PM – 15:10 PM

**Prof. Dr. Sidek Ab Aziz**

[Invited Speaker]

[Paper ID: 174]

*UV-Vis Spectroscopy of Samarium Doped Wollastonite*

15:10 PM – 15:25 PM

**Dr. Pao Ter Teo**

[Invited Speaker]

[Paper ID: 043]

*Chemical & Mineralogical Characterization of Electric Arc Furnace Steel Slag Waste: The Potential Green Resource for Geopolymer Ceramic Production*

15:25 PM – 15:40 PM

**A.P. Dr. Auwalu Inusa Abubakar**

[Paper ID: 006]

*Effect of Samarium Oxide on Structural & Optical Properties of Zinc Silicate Glass Ceramics from Waste Material*

15:40 PM – 15:55 PM

**Mr. Mohammed Zulhasif Ahmad Khairi**

[Paper ID: 164]

*Physical, Structural & Mechanical Properties of Glass Ionomer Cement Derived from Fluoroaluminosilicate Glass with Different Ageing Time*

15:55 PM – 16:10 PM

**Mr. Abdulkarim Muhammad Hamza**

[Paper ID: 102]

*Photoluminescence & Spectroscopic Properties of Erbium doped Bio-Silica Borotellurite Glasses Containing Silver Oxide*

16:10 PM – 16:25 PM

**Mr. Syahrul Humaidi**

[Paper ID: 058]

*Effect of  $Cr_2O_3$  on the TC & Phase Formation of  $Tl_{2-x}Cr_xBa_2CaCu_2O_8$ -Superconductor*

## Chair Dr. Juan Matmin

Nanomaterials / Nanotech / Carbon-Based Materials

Venue: Irama 5

14:55 PM – 15:10 PM

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### A.P. Dr. Mohammad Hafizuddin Jumali

[Invited Speaker]

[Paper ID: 176]

*Fabrication of Porous ZnO:Al Nanostructures using Microwave Assisted Hydrothermal Method*

15:40 PM – 15:55 PM

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### Dr. Yakubu Aliyu Tanko

[Paper ID: 145]

*Gold Nanoparticles Activated Enhanced Photoluminescence of Samarium Ions Inside Tellurite Amorphous Host*

15:10 PM – 15:25 PM

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### Mr. Abtisam Hasan Hamood Al-Masoodi

[Paper ID: 115]

*Synthesis of Silver Nanoparticles by Plasma-Assisted Hot-Filament Evaporation for Luminance Enhancement of Organic Light Emitting Diode*

15:55 PM – 16:10 PM

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### Mr. Muhammad Safwan Sazali

[Paper ID: 075]

*BiFeO<sub>3</sub> Assisted with Different Weight Ratio of Polymer Chitosan: Structural, Optical & Photocatalytic Properties*

15:25 PM – 15:40 PM

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### Mr. Amirul Hadi Azmi

[Paper ID: 171]

*Graphene Exfoliation & Its Stability in Microcrystalline Cellulose Solution*

## Chair Dr. Fadhlina Che Ros

Electrics / Electronics / Magnetism

Venue: Irama 6

14:55 PM – 15:10 PM

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### A.P. Dr. Ing Kong

[Invited Speaker]

[Paper ID: 172]

*Towards Dye Extraction using a Magnetic Aerogel*

15:10 PM – 15:25 PM

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### Dr. Norazila Ibrahim

[Paper ID: 067]

*Electroresistance Effect due to Mo Substitution at Mn-site in La<sub>0.85</sub>Ag<sub>0.15</sub>Mn<sub>1-x</sub>Mo<sub>x</sub>O<sub>3</sub> (x = 0.00 & 0.05) Monovalent Doped Manganites*

15:25 PM – 15:40 PM

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### Ms. Muhammad Suffian Sazali

[Paper ID: 078]

*Effect of Fe Partial Substitution at Mn-site on Electroresistance Behaviour in La<sub>0.7</sub>Ba<sub>0.3</sub>Mn<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub> (x = 0 & 0.02) Manganites*

## Chair A.P. Dr. Muhammad Noorazlan Abd Azis

Other Solid State Research

Venue: Irama 7

14:55 PM – 15:10 PM

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**Dr. Rashid Ahmed**

**[Invited Speaker]**

[Paper ID: 178]

*Computational Designing of Energy Materials for Futuristic Technological Applications*

15:40 PM – 15:55 PM

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**Mr. Maqsood Ahmed**

[Paper ID: 179]

*GPU based Computing for Application in Material Physics*

15:10 PM – 15:25 PM

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**A.P. Dr. Abdullah Chik**

**[Invited Speaker]**

[Paper ID: 170]

*Effect of Vanadium Doping on Thermoelectric Properties of  $\text{CaMnO}_3$  using First Principle Calculations*

15:55 PM – 16:10 PM

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**Ms. Nor Ain Azeany Mohd Nasir**

[Paper ID: 023]

*Effects of Convective Boundary Conditions & Heat Transfer on MHD Stagnation Point Nanofluid Flow Past a Shrinking Sheet*

15:25 PM – 15:40 PM

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**Dr. Mazlinda Ibrahim**

[Paper ID: 010]

*Human Detection for Thermal & Visible Images*

16:10 PM – 16:25 PM

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**Mr. Jee Khan Lim**

[Paper ID: 052]

*Oil Sorbents Derived from Carbonization of Disposable Baby Diapers*