

Cawangan Perlis Kampus Arau







PROGRAMME BOOK

THE 8TH INTERNATIONAL CONFERENCE ON SOLID STATE SCIENCE AND TECHNOLOGY (ICSSST 2021)

VIRTUAL CONFERENCE

Organized by Universiti Teknologi MARA Perlis Branch as host cooperation with The Malaysian Solid State Science and Technology Society (MASS)

1st to 3rd November 2021

Emerging Trends in Solid State Science for Smart Society //



THEMES

"Emerging Trends in Solid State Science for Smart Society"

ABOUT

The 8th International Conference on Solid State Science and Technology (8th ICSSST 2021) is biennial event in Malaysia. This virtual conference is jointly organized by Universiti Teknologi MARA Perlis as host, in cooperation with the Malaysian Solid State Science and Technology Society (MASS). The aim of this conference is to provide a platform for the solid-state science and technology community to share and discuss latest developments and findings of related fields. It is the organizer's hope that this conference will offer networking environment in forging and strengthening research collaborations within this community.





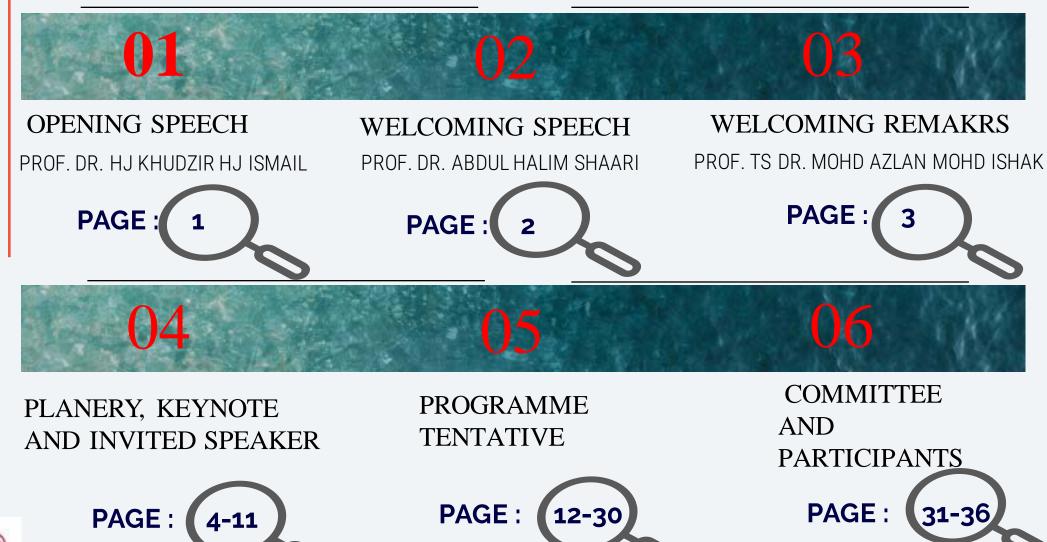






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OPENING SPEECH



Prof. Dr. Hj Khudzir Ismail
Rector, Universiti Teknologi
MARA (UiTM) Perlis Branch

Assalamu'alaikum wrt. wbt.

A very warm welcome to all participants of the 8th International Conference on Solid State Science and Technology 2021.

It is an enormous pleasure for us to organise four conferences namely the 8th ICSSST 2021 (The 8th International Conference on Solid State Science and Technology 2021), BIZMENT 2020 (The International Social Science Conference: Business, Management and Entrepreneurship), AGEOS 2020 (The Advanced Geospatial & Surveying Conference) and ISTEC 2020 (The 4th International Conference on Science, Technology and Engineering) which are underpinned under i-IDeA2020.

The primary focus of the 8th ICSSST 2021 is to create and provide a platform for the solid-state science and technology community to share ideas and discuss the latest developments and findings of related fields, exchange information, innovations, and products. On top of those, the conference will act as a medium in disseminating research and innovation to interest parties.

The UiTM Perlis management would like to express our gratitude to all participants, distinguished speakers, researchers, educators, and students for joining and sharing their valuable experiences and ideas with us. I hold great expectation that this conference will serve as a beginning to strengthening friendship and academic collaborations. Finally, I'd like to express my gratitude to the conference organising committee and the Malaysian Solid State Science and Technology (MASS) for their dedication, perseverance, and hard work in organising this conference.

Thank You.



WELCOMING SPEECH



Prof. Dr. Abdul Halim Shaari Chairman, Malaysian Solid State Science and Technology Society (MASS)

Bismillahirrahmanirrahim

Assalamualaikum warahmatullahi wabarakatuh.

It is my utmost pleasure to welcome all participants from various institutions to the 8th International Conference on Solid State Science and Technology (8th ICSSST 2021), which is co-organized by the Universiti Teknologi MARA Perlis and the Malaysian Solid State Science and Technology Society (MASS). The participants will have the privilege to gather and exchange knowledge, and establish networking across numerous disciplines in a single platform.

The MASS is a highly regarded multi-disciplinary society comprised of chemists, physicists, materials scientists, and engineers. The society has proven its capabilities and maturity by organizing a variety of scientific events that benefit members while also disseminating science and technology to other members of society.

The ICSSST 2021 is an inaugural event, which aims to provide a premier platform for students, academicians, researchers, scientist, and practitioners to share insights and relevant information in regard to the innovations, trends and challenges encountered in world of research. Especially on the sustainable achievement in the domain of Solid State Science and Technology.

I would like to congratulate the organising committee for their diligence and enthusiasm in organising the conference. I convey my best wishes to all ICSSST 2021 participants and hope that the conference will bring an exhilarating and valuable experience.

Thank You,



WELCOMING REMARKS



Prof. Ts Dr. Mohd Azlan Mohd Ishak

Chairman, 8th International Conference on Solid State Science and Technology (ICSSST2021) Assalamualaikum warahmatullahi wabarakatuh. Salam Sejahtera and greeting to all.

On behalf of the organizing committee, I would like to welcome all the delegates and guests to the 8th International Conference on Solid State Science and Technology (8th ICSSST 2021). This virtual conference is an annual event in Malaysia jointly organized by Universiti Teknologi MARA Perlis as host, in cooperation with the Malaysian Solid State Science and Technology Society (MASS). With the themes of "Emerging Trends in Solid State Science for Smart Society" I believe this conference is a great platform for the solid-state science and technology community to share and discuss latest developments and findings of related fields.

The conference which is held on 1-3rd November 2021 features one prestigious plenary speaker by Professor Prof. Dr. Chung-Jen Tseng, keynote speakers, invited talks from well-known scientists and virtual oral parallel sessions. In conjunction with this conference, we also organized the 5th Materials Technology Challenge (MTC5.0) as a sub-event of the 8th ICSSST 2021.

We are glad to announce that all the selected research papers received by the deadline to be considered published in some selected scientific journal.

We anticipate that this conference will serve as a networking opportunity for students, professors, and researchers from Malaysia and throughout the world. We'd like to express our gratitude to all the authors for their amazing contributions to such a vast number of entries. Finally, we expect the conference to be enjoyable, educational, and entertaining, with a high-quality programme to contribute to what will be a memorable event.

I'd like to thank my organising committee, MASS committee, chairpersons of parallel sessions, reviewers, all presenters, our sponsors, and Universiti Teknologi MARAPerlis branch for their supports and commitments.

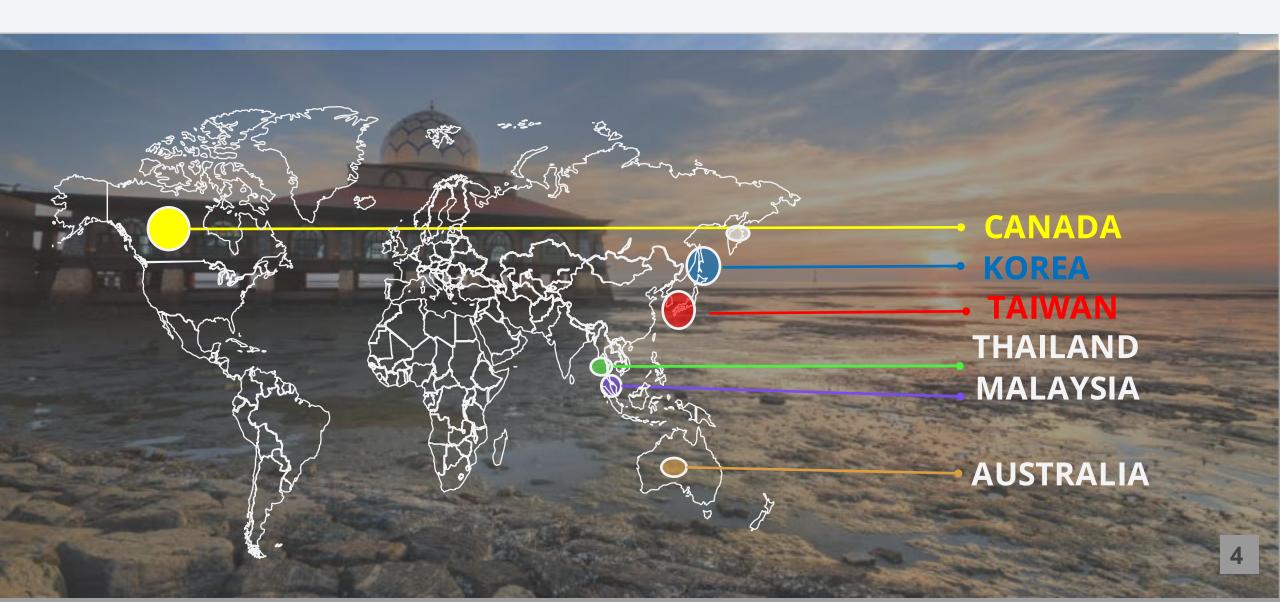
Finally, on behalf of the ICSSST2021 committee, I would like to humbly welcome you to the 8th International Conference on Solid State Science and Technology and look forward to your active participation.

Have a great day!



ORIGIN OF PLANERY, KEYNOTE AND INVITED SPEAKER







PLENARY SPEAKER

Prof. Chung-Jen Tseng received his B.S. and M.S. degrees in Mechanical Engineering from National Chiao Tung University in 1986 and 1988 respectively, and his Ph.D. degree in Mechanical Engineering from The University of Texas at Austin (U.S.A.) in 1995. He received NEDO (New Energy and Industrial Technology Development Organization) Fellowship from the Japanese government and worked on hydrogen energy in Yokohama from 1995 to 1998. He joined the Department of Mechanical Engineering of National Central University in 1998.

Prof. Tseng had worked on vacuum super insulation, gaseous and liquid fuel combustion in porous medium burner, subsonic and supersonic impinging jet, thermal design of large electrical transformers, laser – tissue interaction, numerical simulation of transport phenomena in porous media, microscale heat transfer, and cathode material development for lithium batteries. His current research interest is in energy conversion and storage technologies, such as simulation of transport phenomena in electrochemical processes, innovative PEM fuel cell and stack design, SOFC system analysis, and solar hydrogen production by photoelectrochemical process.

Prof. Tseng also served as the General Secretary of the Combustion Institute of Taiwan from 2010 to 2014. He is an Associate Editor of Journal of Energy Engineering, and serves as editorial board member of several journals. His research was honored by the University with Research Excellence Award in 2013-2016, Distinguished Professorship in 2017-2019, and Patent Excellence Award in 2013, 2015 and 2016.



Prof. Dr. Chung-Jeng Tseng

Department of Mechanical Engineering National Central University



KEYNOTE SPEAKER

Currently holding a post as Rector of UiTM Perlis Branch, Prof. Khudzir is a Professor in the field of Chemical Technology. He received his PhD from University of Strathclyde, United Kingdom, in which his area of research was nominated as the best in the area of conversion chemistry by the NATO-Advanced Study Institute (ASI). Among his notable achievement in the research field is when his work on coal desulphurization gained recognition from both the government and private statuary bodies and won the Petronas Incentives Award in 1996 and gold medal in the Mindex-Innotex Exhibition that was held in Kuala Lumpur. Currently, his research interest includes pyrolysis and gasification studies of coal and biomass blends, supercritical extraction of biomass for production of clean bio-oil and biodiesel and development of highly porous activated carbon from biomass wastes. Presently, he has published more than 250 papers in the highly impact international and national journals. He was a member of Natural Resources and Environment under Japan Society for Promotion of Science (JSPS)-Vice Chancellor Council (VCC), and has been invited as a 'visiting scientist' at Chemical Engineering Department and Energy Department in Kyoto University, Japan. Further, he has been appointed as paper reviewer for the journal of Energy, Fuels, Renewable Energy and Fuel Processing Technology under Elsevier.



Prof. Dr. Hj Khudzir Ismail

Rector, Universiti Teknologi MARA (UiTM) Perlis Branch



KEYNOTE SPEAKER

Prof. Maxwell's research interests include the development of novel fibres, advanced composites, hierarchical materials, and self-organizing systems--where possible, employing naturally-sourced/sustainable materials. His interests also include the synthesis, structure, and properties of materials under extreme conditions, e.g. ultrashort time-scales and extreme pressures. His laboratory develops novel processes, e.g. hyperbaric-pressure laser chemical vapour deposition, ultra-high pressure diamond anvil cells, pulsed power material synthesis, & compact X-ray sources. He also conducts research and develops instruments for high-energy observational astrophysics/space science. Prof. Maxwell conducts basic and applied research, writes patents, and develops novel intellectual property. An experimentalist at heart, he enjoys developing advanced interdisciplinary experimental systems and production prototypes for science, industry, and economic development. Currently he teaches advanced graduate-level advanced materials, nanotechnology, and nano/micro engineering subjects



Prof. James L. Maxwell

Director of Engineering Research, Engineering Dept., La Trobe University



KEYNOTE SPEAKER

Professor Lee D. Wilson, Ph.D finished his Bachelor degree from the University of Winnipeg in 1992 and he was awarded his Ph.D from the University of Saskatchewan in 1998. He was NSERC Postdoctoral Visiting Fellow, National Research Council of Canada, Steacie Institute for Molecular Sciences – Functional Materials Program, Ottawa, in 1999-2003. He is currently affiliated with the Department of Chemistry at the University of Saskatchewan as a Professor. His research interests covers diverse topics in physical chemistry, materials science and environmental chemistry. Ongoing research activities are focused on the development of new types of materials and studies related to adsorption and interfacial phenomena related to water science and technology. The Wilson research group is developing new forms sustainable biomaterials for the controlled removal of contaminants from water and chemical separations using methods based on green chemistry. This research contributes significantly to the science and technology of "smart" adsorbent materials that relate to issues relevant to water and energy security.



Prof. Lee D. Wilson

Department of Chemistry,

University of Saskatchewan

INVITED SPEAKER



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Prof. Dr. Zainal Abidin Talib

Jeonbuk National University South Kores Prof. Dr. Azman Jalar

Universiti Kebangsaan Malaysia (UKM) Bangi, Selangor Prof. Dr. Suhairul Hashim

Universiti Teknologi Malaysia (UTM) Johor Bahru, Johor Prof. Dr. Huda Abdullah

Universiti Kebangsaan Malaysia (UKM) Bangi, Selangor

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Prof. Dr. Md. Rahim Sahar

Universiti Teknologi Malaysia (UTM) Johor Bahru, Johor Prof. Dr. Abdul Halim Shaari

Universiti Putra Malaysia (UPM) Serdang, Selangor Asst. Prof. Dr. Nabil Hayeemasae

Prince of Songkla University Pattani Campus, Thailand Assoc. Prof. Dr. Noor Baa'yah Ibrahim

Universiti Kebangsaan Malaysia (UKM) Bangi, Selangor

INVITED SPEAKER



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Assoc. Prof. Dr. Mohammad Hafizuddin Hj Jumali

Universiti Kebangsaan Malaysia (UKM) Bangi, Selangor

Assoc. Prof. Dr. Abd Mutalib Md Jani

Universiti Teknologi MARA (UiTM) Seri Iskandar, Perak

Assoc. Prof. Ts. Dr. Mohd Hafiz Dzarfan Othman

Universiti Teknologi Malaysia (UTM) Johor Bahru, Johor

Dr. Arlina Ali

Universiti Malaysia Kelantan (UMK) Jeli, Kelantan

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Assoc. Prof. Dr.

Mohd Mustafa

Awang Kechik

Universiti Putra Malaysia

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Assoc. Prof. Dr. Iskandar Shahrim Mustafa

Universiti Sains Malaysia (USM) Pulau Pinang

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Assoc. Prof. Dr. Ali H. Jawad Al-Taie

Universiti Teknologi MARA (UiTM) Shah Alam, Selangor

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Assoc. Prof. Dr. Chen Soo Kien

Universiti Putra Malaysia (UPM) Serdang, Selangor

(UPM) Serdang, Selangor

INVITED SPEAKER



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Dr. Zuliahani Ahmad Dr. Mohammad Saifulddin Mohd Azami

Dr. Wan Izhan Nawawi Wan Ismail

Dr. Mohd Fairul Sharin Abdul Razak

Universiti Teknologi MARA (UiTM) Arau, Perlis Universiti Teknologi Malaysia (UTM) Johor Bahru, Johor

Universiti Teknologi MARA (UiTM) Arau, Perlis Universiti Malaysia Perlis (UniMAP) Arau, Perlis

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Dr. Jeyashelly Andas

Universiti Teknologi MARA (UiTM) Arau, Perlis Dr. Nur Nasulhah Kasim

Universiti Teknologi MARA (UiTM) Arau, Perlis Dr. Wan Yusmawati Wan Yusoff

Universiti Pertahanan Nasional Malaysia (UPNM), Kuala Lumpur

TENTATIVE



1ST NOVEMBER 2021

8.00 AM REGISTRATION



TENTATIVE



DAY 2

(8.00 am -10.30 am)

2ND NOVEMBER 2021

8.00 AM	REGISTRATION OF THE PRESENTERS / PARTICIPANT VIA VIRTUAL PLATFROM EMCEE/MODERATOR
8.30 AM	MALAYSIAN NATIONAL ANTHEM "NEGARAKU" AND "WAWASAN SETIA WARGA UITM"
8.35 AM	RECITAL DU'A BY USTAZ MOHD DAUD AHMAD
8.40 AM	WELCOMING SPEECH: PROF DR. HJ. KHUDZIR HJ. ISMAIL (RECTOR UNIVERSITI TEKNOLOGI MARA, PERLIS, MALAYSIA)
8.50 AM	WELCOMING SPEECH: PROF DR. ABDUL HALIM SHAARI PRESIDENT OF MALAYSIAN SOLID STATE SCIENCE AND TECHNOLOGY SOCIETY (MASS)
9.00 AM	PRESENTING I-IDEA 2020 AND ICSSST2021 CORPORATE MONTAGE
9.10 AM	PLENARY SESSION - PROF. DR. CHUNG-JEN TSENG (NATIONAL CENTRAL UNIVERSITY, TAIWAN) * MODERATOR: PROF. EMERITUS DATO' DR. MUHAMMAD YAHYA*
9.55 AM	KEYNOTE SESSION 1 - PROF DR HJ. KHUDZIR HJ. ISMAIL (RECTOR UNIVERSITI TEKNOLOGI MARA, PERLIS, MALAYSIA) * MODERATOR: PROF. DR. ABDUL HALIM SHAARI*
10.25 AM	PHOTO SESSION VIA VIRTUAL PLATFORM
10.30 AM	REFRESHMENT

DAY 2

(10.40 am -17.00 pm)

TENTATIVE



2ND NOVEMBER 2021

$10.40\mathrm{AM}$	PARALLEL SESSION
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SESSION 1 BREAKOUT ROOM 1:

SESSION 2 BREAKOUT ROOM 2:

SESSION 3 BREAKOUT ROOM 3:

SESSION 4 BREAKOUT ROOM 4:

SESSION 5 BREAKOUT ROOM 5:

13.05 PM LUNCH BREAK

14.30 PM PARALLEL SESSION

SESSION 6 BREAKOUT ROOM 6:

SESSION 7 BREAKOUT ROOM 7:

SESSION 8 BREAKOUT ROOM 8:

SESSION 9 BREAKOUT ROOM 9:

SESSION 10 BREAKOUT ROOM 10:

17.00 PM END OF DAY 2

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DAY 3

(8.00 am -13.00 pm)

13.00PM

LUNCH BREAK

TENTATIVE



3RD NOVEMBER 2021

8.00 AM	REGISTRATION OF THE PRE	ESENTERS / PARTICIPANT VIA VIRTUAL PLATFROM EMCEE/MODERATOR	
8.30 AM		OF. JAMES L. MAXWELL G RESEARCH, ENGINEERING DEPT., LA TROBE UNIVERSITY, AUSTRALIA DR. ZAINAL ABIDIN TALIB*	
9.00 AM	KEYNOTE SESSION 3 - PROF. LEE D. WILSON DEPARTMENT OF CHEMISTRY, UNIVERSITY OF SASKATCHEWAN, CANADA *MODERATOR: PROF. DR. ZAINAL ABIDIN TALIB*		
9.30 AM	PHOTO SESSION VIA VIRTU	AL PLATFORM	
9.35 AM	REFRESHMENT		
9.40 AM	PARALLEL SESSIONS		
	SESSION 11	BREAKOUT ROOM 11:	
	SESSION 12	BREAKOUT ROOM 12	
	SESSION 13	BREAKOUT ROOM 13:	
	SESSION 14	BREAKOUT ROOM 14:	

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TENTATIVE



3RD NOVEMBER 2021

14.30 PM	RECITAL DU'A BY USTAZ MOHD DAUD AHMAD
14.40 PM	CLOSING SPEECH: PROFESSOR TS DR. MOHD AZLAN MOHD ISHAK CHAIRMAN ICSSST2021
14.50 PM	CULTURAL PERFORMANCE

15.00 PM AWARD CEREMONY

BEST PRESENTER AWARD

MATERIALS TECHNOLOGY CHALLENGE (MTC 5.0)

BEST UNDERGRADUATE THESIS AWARD

MASS FELLOWSHIP AWARD

BATON FOR NEXT YEAR CONFERENCE

17.00PM END OF CONFERENCE

Venue: Breakout Room 1

Chairperson: Assoc. Prof. Dr. Abdullah Chik

10:40 AM - 11:00 AM INVITED SPEAKER

Prof. Dr. Zainal Abidin Talib PAPER ID: 136

Investigation On The Formation Of Lead-free Cesium Bismuth Bromide Perovskite

11:00 AM - 11:20 AM INVITED SPEAKER

Assoc. Prof. Dr. Abdul Mutalib Md Jani PAPER ID: 120

Spatially Controlled The Growth Of Gold Decorated Carbon Nanotubes On A Porous Membrane And Its Unique Catalytic Activity

11:20 AM - 11:35 AM

PRESENTER

Monica Limau Anak Jadam
PAPER ID: 14

Synthesis And Characterization Of Layered Double Hydroxides With Varying Divalent Metal Cations: Mg²⁺, Zn²⁺ Ca²⁺ 11:35 AM - 11:50 AM

PRESENTER

Azlina Yahya PAPER ID: 24

Structural And Optical Properties Of Reduced Graphene Oxide-coated Tellurite Glass Doped With Erbium Nanoparticles 11:50 AM - 12:05 PM

PRESENTER

Prof. Ts. Dr. Abd Rahman Tamuri PAPER ID: 31

Greenish Blue Phosphor of Europium and Dysprosium Doped Magnesium-Strontium Aluminate Prepared by Combustion Synthesis

12:05 PM - 12:20 PM

PRESENTER

Dr. Wan Aizuddin W Razali

PAPER ID: 63

Characterization Of Chromium Doped Zinc Aluminate (ZnAl₂O₄) Phosphor Synthesized By Sol-gel Method

12 : 20 PM – 12 : 35 PM

PRESENTER

Dr. Norherdawati Kasim PAPER ID: 68

Nanohybrid Polysulfone Membrane For Water Treatment Industries: Preparation And Characterization 12:35 PM – 12:50 PM PRESENTER

Dr. Engku Abd Ghapur Che Engku Ali

PAPER ID: 78

Effect Of Growth Time Of Zinc Oxide Nano Rod In Hydrothermal Process To The Performance Of Dye-sensitized Solar Cells



Venue: Breakout Room 2

Chairperson: Dr. Haryana Mohd Hairi

10:40 AM – 11:00 AM INVITED SPEAKER

Prof. Dr. Huda Abdullah PAPER ID: 147

Zn_{1-x} Sn_x O (Zinc-Tin-Oxide) As An Alternative CZTS Solar Cell Buffer Layer 11:00 AM - 11:20 AM INVITED SPEAKER

Assoc. Prof. Dr. Mohammad Hafizuddin Hj. Jumali PAPER ID: 148

Development Of High-performance Piezoelectric Nanogenerator Based On BaTiO₃/PVDF Nanocomposite Fibers

11 : 20 AM – 11 : 35 AM PRESENTER

Muhamad Anuar Abdul Muin PAPER ID: 117

Optimization Of Thin Wasted Polystyrene Embedded Multiwall Carbon Nanotubes (MWCNT) Film For Solid Electrolyte Of Flexible Dye-sensitized Solar Cell (DSSC) 11 : 35 AM – 11 : 50 AM **PRESENTER**

Shaiful Bakhtiar Hashim PAPER ID: 119

Effect Of Polymer Types On Metal Oxide Substrates As An EGFET Sensor Based Nitrate Sensing Layers 11 : 50 AM – 12 : 05 PM

Muhammad Luqman Md Ali PAPER ID: 124

A Review On The Modification Of Hierarchical Zeolite Catalyst, HZSM-5 For Bio-oil Production Via Catalytic Pyrolysis Of Biomass

12:05 PM – 12:20 PM

PRESENTER

Norjuliyati Hamzah PAPER ID : 19

First-Principles LDA+U and GGA+U Calculations on Structural and Electronic Properties of Wurtzite ZnO 12 : 20 PM – 12 : 35 PM

Ahmad Fuzairi Ahmad Faizal PAPER ID: 22

Excellent Visible-Light-Induced Photocatalytic activity of SrTiO₃ in terms of Structural and electronic properties: ADFT + U investigations

12:35 PM – 12:50 PM PRESENTER

Nurakma Natasya Md Jahangir Alam PAPER ID:66

First Principles Study Of Electronic And Thermoelectric Properties Of Surface (001) ATiO₃ (A=Pb, Sn) For Thin Film Application Using Density Functional Theory

Venue: Breakout Room 3

Chairperson: Dr. Rozilah Rajmi

10:40 AM - 11:00 AM INVITED SPEAKER

Dr. Jeyashelly Andas PAPER ID: 123

Turning Waste Chicken Bones Into Heterogeneous Catalyst For Biodiesel Synthesis From Waste Cooking Oil 11:00 AM - 11:20 AM

INVITED SPEAKER

Assoc. Prof. Ts. Dr. Mohd Hafiz Dzarfan Othman PAPER ID: 144

Inexpensive Ceramic Membranes Derived From Alternative Materials For Water & Wastewater Treatment

11 : 20 AM – 11 : 35 AM

PRESENTER

Azzafeerah Mahyuddin PAPER ID: 13

Polymer-free Transfer Of Graphene-based Material Derived From Cooking Palm Oil By Chemical Vapor Deposition Technique 11:35 AM - 11:50 AM

PRESENTER

Dr. Wan Rafizah Wan Abdullah @ Wan Abd. Rahman PAPER ID: 129

Synthesis Of Cerium Oxide-Zinc Oxide Heterostructured Photocatalyst For Potential Water Treatment Application 11:50 AM - 12:05 PM

PRESENTER

Farah Liyana Bohari PAPER ID: 59

Synthesis And Characterization Of 4chlorophenoxyacetic Acid Herbicide Interleaved Into Calcium-Aluminium Layered Double Hydroxide

12:05 PM \(\) 12:20 PM

PRESENTER

Dr. Nor Hafizah Che Ismail PAPER ID: 99

Novel Intercalation Mechanism Of Cationic Surfactants Modified Muscovite

12:20 PM - 12:35 PM

PRESENTER

Dr. Khuzaimah Arifin PAPER ID: 54

TiO₂/MXene-based Composite Material In Photoelectrochemical Water Splitting Application: A Review 12:35 PM - 12:50 PM

PRESENTER

Norinsan Kamil Othman PAPER ID: 92

Green Corrosion Coating Using Palm Oil Based Urethane Acrylate (POBUA) On Mild Steels In 3.5 NaCl Solution

NOV.

Venue: Breakout Room 4

Chairperson: Dr. Intan Juliana Shamsudin

10:40 AM - 11:00 AM INVITED SPEAKER

Asst. Prof. Dr. Nabil Hayeemasae PAPER ID: 164

Insight Into Relationship Between Mechanical Strength And Strain-induced Crystallization Of Natural Rubber/Halloysite Nanotubes Composites 11:00 AM - 11:20 AM INVITED SPEAKER

Assoc. Prof. Dr. Noor Baa'yah Ibrahim PAPER ID: 36

Pure Polycrystalline Barium Hexaferrite Film Prepared Without Buffer Layer, Using A Sol-gel Method

11 : 20 AM – 11 : 35 AM

Adzrie Bin Baharudin PAPER ID: 48

Characterization And Mechanical Properties
Of Polylactic Acid (PLA) Biocomposite Filled
Microcrystalline Cellulose (MCC) Extracted
From Kenaf

12 : 05 PM – 12 : 20 PM

PRESENTER

Dr. Faiezah Hashim PAPER ID: 86

he Effect Of Dynamic Vulcanization On The Properties Of Ethylene Vinyl Acetate Eva)/Natural Rubber (NR)/Mengkuang Leaf Fibre (MLF) Thermoplastic Elastomer Composites 11:35 AM – 11:50 AM PRESENTER

Noor Aishatun Majid PAPER ID: 149

Effect Of Various Concentrations Of Silane Coupling Agent Treated Palm Kernel Shell (PKS) Powder Filled Polyvinyl (Chloride) (PVC)/Acrylonitrile Butadiene Rubber (NBR) Compounds

12 : 20 PM – 12 : 35 PM

PRESENTER

Nur Syuhada Ayob PAPER ID: 101

Effect Of Different Types Of Fillers On Dielectric And Microwaves Properties Of Rubber-based Composites 11 : 50 AM – 12 : 05 PM

PRESENTER

Nor Mazlina Abdul Wahab PAPER ID: 105

Mechanical Properties Of Natural Rubber Vulcanizates Containing Ethylene Propylene Diene Rubber Waste At Different Types Of Vulcanization System

12: 35 PM – 12 : 50 PM

PRESENTER

Dr. Nabilah Afiqah Mohd Radzuan PAPER ID: 137

3D Printed Polyamide-Carbon Fibre Composites Filament

Venue: Breakout Room 5

Chairperson: Dr. Mohammad Saifulddin Bin Mohd Azami

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10:40 AM - 11:00 AM

INVITED SPEAKER

Assoc. Prof. Dr. Chen Soo Kien PAPER ID: 116

Critical Current Density Of Sintered Ex-situ MgB₂ Superconductor 11:00 AM - 11:20 AM INVITED SPEAKER

Dr. Wan Izhan Nawawi Wan Ismail PAPER ID: 152

Immobilized TiO₂/PEG By Double Sided Adhesive Tape (DSAT) For Photocatalytic Decolorization Of Methylene Blue

11:20 AM – 11:35 AM PRESENTER

Dr. Syahrul Humaidi PAPER ID : 30

Superconductivity In (Fe_{1-x}SeSn_x) Superconductor 11:35 AM - 11:50 AM

PRESENTER

Dr Hartini Ahmad Rafaie PAPER ID: 35

Photocatalytic Degradation of Methylene Blue Dye using Mg-Doped ZnO under UV Light Irradiation 11:50 AM - 12:05 PM

PRESENTER

Nureel Imanina Abdul Ghani PAPER ID: 37

Water-based Preparation Of Immobilized Agdoped TiO₂ Photocatalyst For Photocatalytic Degradation Of RR4 Dye

12:05 PM - 12:20 PM

PRESENTER

Azliana Ramli

PAPER ID: 64

Mixed-halide Hybrid Perovskite With Amino(methyl)pyridine-cation: Structural, Chemical, Optical, And Conductivity Properties

12:20 PM - 12:35 PM

PRESENTER

Dr. Norazila Ibrahim

PAPER ID: 70

Electroresistance Effect In Monovalent Doped $La_{0.8-x}Dy_xNa_{0.2}MnO_3$ (x = 0 And 0.1) Manganites



Venue: Breakout Room 6

Chairperson: Dr. Nurul Syahidah Sabri

14:30 PM – 14:50 PM INVITED SPEAKER

Prof. Dr. Md. Rahim Sahar PAPER ID: 131

Cullet Titanium Nitrate Glass Ceramics

14:55 PM – 15:10 PM PRESENTER

Lidyayatty Abdul Malik **PAPER ID: 74**

X-Ray Analyses and Density Functional Theory Study of NiO-BaCe_{0.54}Zr_{0.36}Y_{0.1}O_{2.95} and NiO-*m*-BaCe_{0.54}Zr_{0.36}Y_{0.1}O_{2.95} Composite Anode

15 :10 PM – 15 :25 PM PRESENTER

Dr. Nurhafizah Md Disa PAPER ID: 84

DFT Study On Structural Properties, Density
Of States And Band Structure Of Mono- & Bilayer Graphene

15 : 25 PM – 15 : 40 PM PRESENTER

Mohd Saiful Bahari Shaari PAPER ID: 109

Magnet Potential Energy Research For Magnetism System Development 15 : 40 AM – 15 : 55 PM

Dr. Haryana Mohd Hairi
PAPER ID: 114

Numerical Study On Refractive Index Modification Of Chromium Oxide Coated Silica Optical Fiber Sensor Using COMSOL Multiphysics

15:55 PM – 16:10 PM

Dr. Siti Nurul'Ain Yusop

PAPER ID: 130

Dissolution Prediction Of β -succinic Acid In Ethanol Solution Using Molecular Dynamic Simulation

16 : 10 PM – 16 : 25 PM

Assoc. Prof. Dr. Abdullah Chik
PAPER ID: 128

First Principle Study Of Thermoelectric Properties Of La Doped SrZrO₃ Perovskite

16: 25 PM – 16: 40 PM

Noor 'Aisyah Johari **PAPER ID**: **20**

Effects of Hubbard U correction on the structural and electronic properties of rutile, anatase and brookite TiO₂

Venue: Breakout Room 7

Chairperson: Dr. Wan Rafizah Wan Abdullah

14:30 PM - 14:50 PM INVITED SPEAKER

Dr. Nur Nasulhah Kasim PAPER ID: 153

Effect Of Sequential Pre-treatment On The Thermal Behaviour Of Pretreated Palm Empty Fruit Bunch Using Thermal Gravimetric

14:50 PM - 15:10 PM

INVITED PRESENTER

Prof. Dr. Abdul Halim Shaari PAPER ID: 159

Effect Of Indium And Yttrium Substitution In
Bismuth Ferrite Ceramics

15:10 PM - 15:25 PM

PRESENTER

Yusuf Shehu

PAPER ID: 155

Investigation of antimony Doped TiO₂
Microspheres Growth Mechanism: The Role Of
Dopant Molarity

15 : 25 PM – 15 : 40 PM

PRESENTER

Suhaida Dila Safian PAPER ID: 134

Electrochemical Properties Of Modified LaSrCoFeO₃ Cathode Thin Film On Proton Conductor Ceramics

15:40 PM - 15:55 PM

PRESENTER

Nur Farahin Yusoff PAPER ID: 76

A Short Review On Catalytic Properties For Dry Methane Reforming

15:55 PM - 16:10 PM

PRESENTER

Nurul Waheeda Mazlan PAPER ID: 75

Physicochemical And Electrochemical Properties Of LSCF And 70LSCF-30BCZY Cathode Composite: A Correlation Study 16:10 PM - 16:25 PM

PRESENTER

Assoc. Prof. Dr. Yap Chi Chin PAPER ID: 65

Effect Of Copper Iodide Doping Concentration On The Indoor Photovoltaic Performance Of Inverted Type Organic Solar Cell 16: 25 PM - 16: 40 PM

PRESENTER

Yap Siew Hong PAPER ID: 122

Comparative Study On Superconducting Properties
And Surface Morphology Analysis For
Y_{0.85}K_{0.15}Ba₂Cu₃O₇- **d** And Y_{0.85}Ca_{0.15}Ba₂Cu₃O₇- **d**Synthesized Via Thermal Treatment Method

Venue: Breakout Room 8

Chairperson: Assoc. Prof. Dr. Abdul Mutalib Md Jani

14:50 PM – 15:10 PM INVITED SPEAKER

Assoc. Prof. Dr. Mohd. Mustafa Awang Kechik

PAPER ID: 139

Improvement Of Flux Pinning Of YBa₂Cu₃O_{7-δ} Films By Gd2411 Nano Inclusions

15 :10 PM – 15 :25 PM PRESENTER

Dr. Rozilah Rajmi **PAPER ID : 71**

Effect Of Magnetic Ions (A=Ni, Cr; X = 0 and 0.03) Substitution in $Pr_{0.75}Na_{0.25}Mn_{1-x}A_xO_3$ Manganite On Structural, Magnetic And Electrical Transport Properties 15: 25 PM – 15: 40 PM

Dr. Safura Taufik
PAPER ID: 60

Development of an Electrochemical Impedance based Sensor for the Detection of Malathion using Reduced Graphene Oxide and Gold Nanoparticles 15:40 PM – 15:55 PM PRESENTER

Prof. Madya. Dr Nafisah Osman

PAPER ID: 96

Global Trends In SOFC Scenario And Future Perspectives

15:55 PM – 16:10 PM

Lau Lik Nguong PAPER ID: 15

Structural And Electrical Properties Of La-Ca-Mn-O/ZnO Composites 16 : 10 PM – 16 : 25 PM

PRESENTER

Mohammad Shyfur Rahman Chowdhury

PAPER ID: 133

Impact Of Cosmological Constant In Cosmological Models

Venue: Breakout Room 7

Chairperson: Dr. Norazila Ibrahim

14 : 30 PM – 14 : 50 PM INVITED SPEAKER

Dr. Mohd Fairul Sharin Bin Abdul Razak PAPER ID: 158

The Study Of The Modification Dye Sensitized Solar Cell Using Biopolymer And Conducting Polymer As Modifiers 14:50 PM - 15:10 PM INVITED SPEAKER

Dr. Wan Yusmawati Binti Wan Yusoff PAPER ID: 143

The Influence Of Gamma Radiation Exposure Towards Hardness, Intermetallic Compound And The Area Of Eutectic Phase Of Solder Joint

15:10 PM - 15:25 PM

PRESENTER

Sofiah Abd Rani PAPER ID: 81

Dose Response Of Radiation-induced Lowdose Film Dosimeter Of Inorganic Salt And Red Cresol Dyed Blended PVA 15 : 25 PM – 15 : 40 PM

PRESENTER

Nur Amira Binti Zainul Armir PAPER ID: 95

Comparison Of Characterization Of Regenerated Cellulose Hydrogel Composed With Polyanionic And Polycationic Polymers 15 : 40 PM – 15 : 55 PM

PRESENTER

Wahida Abdul Rahman PAPER ID: 10

Preparation and Characterization of Biocomposite Film Derived from Microcrystalline Cellulose (MCC) of Jackfruit Rind Waste

15: 55 PM – 16: 10 PM

PRESENTER

Amalia Zulkifli PAPER ID : 98

Effectiveness Of Sulphuric Acid/Lactic Acid As Catalyst Towards Bio-based Polyol

16:10 PM - 16:25 PM

PRESENTER

Dr. Then Yoon Yee PAPER ID: 111

Preparation And Physicochemical Properties Of Polyester Polyol Plasticized Poly(lactic Acid)/Zinc Oxide Films 16:25 PM - 16:40 PM

PRESENTER

Assoc. Prof. Dr. Noor Azilah Mohd

Kasim

PAPER ID: 108

Functionalization Of Carbon Nanofibers Using Dodecylamine And Octadecanol And Their Characterization



Venue: Breakout Room 10

Chairperson: Ts. Dr Khadijah Hilmun Kamarudin

14:30 PM – 14:50 PM INVITED SPEAKER

Prof. Dr. Azman Jalar **PAPER ID**: 150

Microstructural Stability Of Intermetallic Compound Layer Of Metallurgical Interconnection In Semiconductor Packaging 14:50 PM – 15:10 PM INVITED SPEAKER

Assoc. Prof. Dr. Iskandar Shahrim Mustafa

SiO₂ Glass System Via Various SiO₂ Sources

PAPER ID: 125
Optical Characterization Of Na₂O-ZnO-B₂O₃-

15 :10 PM – 15 :25 PM PRESENTER

Assoc. Prof. Dr. Ahmad Nazlim
Yusoff

PAPER ID: 33

Proton Relaxation In Several Laboratory
Magnetic Resonance Imaging (MRI)
Phantoms

15 : 25 PM – 15 : 40 PM PRESENTER

Nur Aisyah Ab Malik Marwan PAPER ID: 67

Structural And Elastic Characteristics Of Tialloys Doped With β - stabilizer For Human Bone Implant

15:40 AM – 15:55 PM PRESENTER

Dr. Solhan Yahya PAPER ID: 16

Electrochemical Polarization Studies On Corrosion Inhibition Of Alloy By Tannin And Catechin

15 : 55 PM – 16 : 10 PM

Muhammad Syahirul Ikhwan Ab Aziz PAPER ID: 44

The Surface Morphology And Recyclability Studies Of Immobilized Titanium Dioxide Under Surfactant As Dispersing Agent 16:10 PM – 16:25 PM

Siti Raihan Hamzah PAPER ID: 41

The Porosity Study Of Immobilized
TiO₂/ENR/PVC Under Photoetching
Process For Light Harvesting
Enhancement Through Photocatalytic
Degradation Of RR4 Dye

Venue: Breakout Room 11

Chairperson: Dr. Then Yoon Yee

9:40 AM - 10:00 AM

INVITED SPEAKER

Dr. Zuliahani Ahmad PAPER ID: 154

Improved Mechanical And Corrosive
Properties Of Unsaturated Polyester-graphene
Treated With Silane Coupling Agent

10:00 AM - 10:15 AM

PRESENTER

Munirah Onn PAPER ID: 52

Morphology And Characterization Study Of Effective Microorganism (EM) Waterbased Epoxy Coatings

10:15 AM - 10:30 AM

PRESENTER

Ts Dr Ruziana Mohamed PAPER ID: 77

Enhanced The Properties Of ZnO Thin Film By Graphene Oxide Coating At Different Concentrations Via Solution Immersion Method 10:30 AM - 10:45 AM

PRESENTER

Dayang Habibah Abang Ismawi Hassim PAPER ID: 50

Characterization Of Ethylene-vinyl Acetate/Natural Rubber (EVA/NR)-based Thermoplastic Elastomer For Fused Deposition Modelling (FDM)-3D Printing Material

10:45 AM - 11:00 AM

PRESENTER

Ts. Dr. Khadijah Hilmun Kamarudin PAPER ID : 11

Effect Of Electrode Thickness And Surface Morphology On Electrochemical Performance Of EDLC Based Solid Polymer Electrolytes 11:00 AM - 11:15 AM

PRESENTER

Sharifah Nafisah Syed Ismail PAPER ID : 5

Unsaturated Polyester Composite Filled With Coconut Shell Natural Fibre: Preparation And Mechanical Performance

Venue: Breakout Room 12

Chairperson: Assoc. Prof. Dr. Ahmad/Nazlim Yusoff

9:40 AM - 10:00 AM

Dr. Mohammad Saifulddin Mohd Azami

PAPER ID: 157

Silver Deposited On Graphitic Carbon Nitride Prepared Under Microwave Irradiation For Photo degradation Of 2-chlorophenol

10:00 AM – 10:15 AM

Abqari Luthfi Albert Abdullah PAPER ID: 83

Effect Of Synthesis Temperature On Morphological And Microstructural Properties Of Graphene-ZnO Composites Prepared By Solvothermal Method 10:15 AM – 10:30 AM

Zainur Atika Ibrahim PAPER ID: 34

Effect Of Dilution Gas To The Silicon Carbide
Films Using Very High Frequency - Plasma
Enhanced Chemical Vapour Deposition

10:30 AM – 10:45 AM PRESENTER

Dr. Intan Juliana Shamsudin

PAPER ID: 28

Synthesis Of Hydrophobic Benzoyl Carrageenan As Polymer Electrolyte

10:45 AM – 11:00 AM

PRESENTER

Umairah Mohd Zaki

PAPER ID: 91

Effects Of Inorganic Salts And Maltose On The Dose-response Of HEMA Polymer Gel Dosimeters At Diagnostic Range 11 : 00 AM – 11 : 15 AM

PRESENTER

Ting Lee Mon PAPER ID: 47

Diffusivity

Optimizing Mode-mismatched Thermal Lens
Method For Study Of Liquid Thermal

Venue: Breakout Room 13

Chairperson: Dr. Sølhan Yahya

VEMBER 20

9:40 AM - 10:00 AM

INVITED SPEAKER

Assoc. Prof. Ali H. Jawad Al-Taie

<u>PAPER ID : 160</u>

Chitosan- Biohybrid Nanocomposite Material For Wastewater Treatment

10:00 PM - 10:20 PM

INVITED SPEAKER

Prof. Dr. Suhairul Hashim

PAPER ID: 151

Thermoluminescence Properties Of Pure Gold Nanoparticles Embedded BaSO₄- TeO₂- B₂O₃ Glasses co-doped With Rare Earth Ions As A Solid TL Detector

10:20 AM - 10:30 AM

PRESENTER

Prof. Madya Dr. Lim Kean Pah

PAPER ID: 21

Structural, Electrical, And Magneto-transport Properties Of Pr_{0.7}Sr_{0.3}MnO₃: Al₂O₃ Composites

10:30 AM - 10:45 AM

PRESENTER

Nur Syazana Nazeri PAPER ID: 45

Effect Of Water As Dispersing Agent For Prepared Immobilized Titanium Dioxide

10:45 AM - 11:00 AM

PRESENTER

Nadiah Sabihah Md Natar

<u>PAPER ID : 46</u>

Preparation Of Water-base Immobilized N Doped TiO₂ Using DSAT Technique For Photocatalytic Degradation Of Methylene Blue Dye

11:00 AM - 11:15 AM

PRESENTER

Husniyah Aliyah Lutpi PAPER ID: 104

Physical, Mechanical Properties And Thermal Shock Resistance Of Li₂O-Al₂O₃-SiO₂-MgO-TiO₂-Na₂O

11:15 AM - 11:30 AM

PRESENTER

Lili Widarti Binti Zainuddin

PAPER ID: 12

The Study Of Hubbard U Correction On Structural, Electronic And Optical Properties Of $LiNbO_3$

11:30 AM - 11:45 AM

PRESENTER

Dr. Nurul Akidah Baharuddin PAPER ID: 103

Structural And Electrical Properties Of LiNi_{1-x} Ru_xO₂ (x=0.3,0.4) As A Potential Electrode For Symmetrical Solid Oxide Fuel Cell

14

Venue: Breakout Røom 14

Chairperson: Dr. Engku Abd Ghafur bin Che Engku Ali

9:40 AM - 10:00 AM

INVITED SPEAKER

Dr. Arlina Ali

PAPER ID: 162

Synthesis And Characterization Of Aluminium Oxide Added With Zinc Oxide Nanostructures For Against UV Protection 10:00 AM – 10:15 AM PRESENTER

Noratiqah Yusop PAPER ID: 145

Influence of soft phase thickness on magnetic properties of $BaFe_{12}O_{19}/Y_3Fe_5O_{12}$ film prepared by a sol-gel method

10:15 AM – 10:30 AM

Nurhaswani Alias **PAPER ID: 132**

Comparison between oxide nanotubes fabricated on Ti and Ti-Nb alloys; characterization and photocatalytic reduction of Cr(VI)

10:30 AM – 10:45 AM PRESENTER

Aliah Nursyahirah Kamarudin PAPER ID: 121

Optimization of the Liquid Source $YBa_2Cu_3O_y$ + $ErBa_2Cu_3O_y$ + $Ba_3Cu_5O_8$ in Bulk $YBa_2Cu_3O_y$ Superconductors Grown by Infiltration Growth Process 10:45 AM – 11:00 AM PRESENTER

Nur Quratul Aini Ismail PAPER ID: 49

Influence Of Milling Time On The Microstructural Properties Of ZnO-Bi $_2$ O $_3$ -Sb $_2$ O $_3$ -CoO-MnO $_2$ - Al $_2$ O $_3$ -Based Ceramic-varistors

11:00 AM - 11:15 AM PRESENTER

Ts. Syafawati Nadiah Mohamed

PAPER ID: 102

Judd-ofelt Analysis And Up-conversion Of Er³⁺ / V⁴⁺ Co-doped Na₂O-CaO-B₂O₃ Glasses 11:15 AM – 11:30 AM

Dr Abdul Rahman Mohmad PAPER ID: 56

Photoluminescence Investigation Of BaSi₂ Epitaxial Film On Si Substrate 11:30 PM – 11:45 PM PRESENTER

Dr. Nurul Syahidah Sabri PAPER ID: 110

Optical Properties of xSrO-(90-x)B₂O₃-2CeO₂-8Al₂O₃ Glasses

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