

PRESENTATION SCHEDULE

KEYNOTE SPEAKERS

DAY 1: 29th APRIL 2019 (MONDAY) 9:30 am – 10:00 am Flamingo Ballroom Chair: Mr. Mohd Affaddil Izmi Roslan	
9:30 am	<i>Professor Dr. Hiroshi Kwarada</i> <i>(Waseda University, JAPAN)</i> “Toward New Generation Power Electronics with Complimentary FETs Composed of Diamond p-FETs and Nitride n-FETs”
DAY 2: 30th APRIL 2019 (TUESDAY) 09:00 am – 10:00 am Flamingo Ballroom Chair: Mr. Mohd Affaddil Izmi Roslan	
09:00 am	<i>Professor Dr. James S. Speck</i> <i>(University of California Santa Barbara, USA)</i> “Revealing the Inner Working of Advanced GaN-based LEDs”
09:30 am	<i>Dr. Matthias Sabathil</i> <i>(OSRAM Opto Semiconductors (Malaysia) Sdn. Bhd., MALAYSIA)</i> “Innovations in LED Lighting”

PLENARY SPEAKERS

<p>DAY 1: 29th APRIL 2019 (MONDAY)</p> <p>02:00 pm – 02:30 pm</p> <p>Flamingo Ballroom</p> <p>Chair: Mr. Mohd Affaddil Izmi Roslan</p>	
02:00 pm	<p><i>Dr. Rezal Khairi Ahmad</i></p> <p><i>(NanoMalaysia Berhad, MALAYSIA)</i></p> <p>“National Graphene Action Plan 2020”</p>
<p>DAY 2: 30th APRIL 2019 (TUESDAY)</p> <p>02:00 pm – 02:30 pm</p> <p>Flamingo Ballroom</p> <p>Chair: Mr. Mohd Affaddil Izmi Roslan</p>	
02:00 pm	<p><i>Professor Dr. Steven P. Denbaars</i></p> <p><i>(University of California Santa Barbara, USA)</i></p> <p>“Recent Developments of InGaN/GaN Based Laser Diodes for Energy Efficient Solid State Lighting and Displays”</p>

INVITED SPEAKERS

DAY 1: 29 th APRIL 2019 (MONDAY)	
11:30 am	<p>PARALLEL SESSION 1A</p> <p>TOPIC A: DEVICES (Flamingo Ballroom)</p> <p>Associate Professor Dr. Sidi Ould Saad Hamady (Université de Lorraine, FRANCE)</p> <p>“Numerical Optimization of Solar Cells: A Review of Standard and Novel Methods”</p>
11:30 am	<p>PARALLEL SESSION 1B</p> <p>TOPIC B: OPTICAL and ELECTRONIC MATERIALS (Pink Flamingo)</p> <p>Professor Dr. Sabah M. Thahab (University of Kufa, IRAQ)</p> <p>“Formation of Fe, Pt and (Pt@Fe) Ultra Fine Metal Nanoparticles in Different Solution Polarity Prepared by Nd-YAG Pulsed Laser”</p>
02:30 pm	<p>PARALLEL SESSION 2B</p> <p>TOPIC D: PACKAGING TECHNOLOGY (Pink Flamingo)</p> <p>Professor Dr. Ghazali Bin Omar (Universiti Teknikal Malaysia Melaka, MALAYSIA)</p> <p>“Surface Interaction of Silver (Ag) Nano Particle in Electrically Conductive Adhesives for Electrical Performance”</p>
DAY 2: 30 th APRIL 2019 (TUESDAY)	
11:00 am	<p>PARALLEL SESSION 4A</p> <p>TOPIC A: OPTICAL and ELECTRONIC MATERIALS (Flamingo Ballroom)</p> <p>Professor Dr. Giacinta Parish (The University of Western Australia, AUSTRALIA)</p> <p>“Novel Sensors Based on III-Nitrides and Porous Silicon”</p>

ORAL SESSION

SESSION 1

DAY 1: 29th APRIL 2019 (MONDAY)

PARALLEL SESSION 1A

TOPIC A: DEVICES

(Flamingo Ballroom)

Chair: Dr. Mundzir Abdullah

Time	Title/Presenter	ID
11:30 am	Numerical Optimization of Solar Cells: A Review of Standard and Novel Methods INVITED TALK: Nicolas Fressengeas, Sidi Ould Saad Hamady*	D1
11:45 am	Efficient InGaN based Visible Semipolar (11-22) and (20-21) Light-Emitting Diodes (LEDs) on Semipolar GaN/Sapphire Template with Low Dislocation Density Hongjian Li* , Michel Khoury, Mattew Wong, Bastien Bonef, Philippe DeMierry, Shuji Nakamura, James S. Speck, Steven P. DenBaars	D2
12:00 pm	Fabrication of Deep Green Light Emitting Diode on Bulk Gallium Nitride Substrate Shamsul Amir Abdul Rais* , Zainuriah Hassan, Ahmad Shuhaimi Abu Bakar, Muhammad Nazri Abdul Rahman, Yusnizam Yusuf, Muhamad Ikram Md Taib, Abdullah Fadil Sulaiman, Hayatun Najihah Hussin, Nagai Keiji, Mohd Fairus Ahmad, Akimoto Yuka, Shoji Dai	D3
12:15 pm	Fabrication Process of InGaAs-Based Nanodiode Array using Electron-Beam Lithography Technique Shahrir R. Kasjoo* , Arun K. Singh	D4
12:30 pm	Sensitivity of Nickel Oxide Nanoflakes Layer on EGFET Based pH Sensor Dauda Abubakar* , Naser M. Ahmed, Shahrom Mahmud, Fayroz A. Sabah, Abdullahi Hassan Abdullahi	D5
12:45 pm	UV Photodetector Based on P-N Junction of Nickel Oxide Thin Films and n-Type Silicon Prepared by Thermal Oxidation Ahlaam T. Nomaan* , Naif H. Al-Hardan, Naser M. Ahmed, Ng Sha Shiong, Azlan Abdul Aziz	D6

PARALLEL SESSION 1B

TOPIC B: OPTICAL and ELECTRONIC MATERIALS

(Pink Flamingo)

Chair: Dr. Quah Hock Jin

Time	Title/Presenter	ID
11:30 am	Formation of Fe, Pt and (Pt@Fe) Ultra Fine Metal Nanoparticles in Different Solution Polarity Prepared by Nd-YAG Pulsed Laser INVITED TALK: Sabah M. Thahab* , Abbas H. Abo Nasria, Saja Hussain	OE1
11:45 am	Structural and Magnetic Properties of Cu-Substituted Ni Ferrite Prepared by Pulsed Laser Depositions Ali A. Ati*	OE2

12:00 pm	Characterization of CuO/n-Si pn Junction Synthesized by Successive Ionic Layer Adsorption and Reaction Method Adel H. Omran Alkhayatt* , Asala H. Ali, Hassan Hadi Ali Al Alak	OE3
12:15 pm	Influence of Platinum Nanoparticles on the Catalytic Activities of Proton Exchange Membrane Fuel Cell Mustapha Isah* , Sib K. Goshal, Aliyu I. Kabiru	OE4
12:30 pm	Photodiode Device Utilizing WS ₂ Nanosheet Prepared by Ultrasonic Spray Pyrolysis Nabilah Alias* , Nurul Ain Abd Malek, Akrajas Ali Umar	OE5
12:45 pm	Synthesis and Characterizations of Few Layer WS ₂ Nanosheet Using Ultrasonic Pyrolysis Nurul Ain Abd Malek* , Nabilah Alias, Akrajas Ali Umar	OE6

ORAL SESSION

SESSION 2

DAY 1: 29th APRIL 2019 (MONDAY)

PARALLEL SESSION 2A

TOPIC C: ORGANIC and POLYMERIC MATERIALS

(Flamingo Ballroom)

Chair: Assoc. Prof. Dr. Nor Aziyah Bakhari

Time	Title/Presenter	ID
2:30 pm	Synthesis and Characterization of Polypyrrole-Polyethylenimine Nanocomposite and Its Application of Nickel Ions Removal from Aqueous Solution Abdullahi Haruna Birniwa* , Abdulsalam Salisu Abubakar, Habibun Nabi Muhammad Ekramul Mahmud	OP1
2:45 pm	Development of Novel Synthesis Method for Silver Nanoparticles using Benzene Thiol and Disulfide Derivatives Bearing Triazine Group and Their Catalyst Application Rafia Usman Khan* , Junichi Kurawaki	OP2
3:00 pm	HOMO-LUMO Energy Gap and Vibrational Spectra of Tetracene Molecule Auwalu Baballe* , Bello. Y. Idi	OP3
3:15 pm	An Assessment of The Effect of Structure Modification on Poly (3,4-Ethylenedioxy-Thiophene) Chain by End-Capping and Doping Anang WM Diah* , Clovia I Holdsworth, Joselito P. Quirino, Warwick Belcher	OP4
3:30 pm	Assessment the Impact of Iron Nanoparticles and Dry Yeast Extract on the Corn (Zea Maize L.) <i>Rasmi M. Hamad, Maath.M AL Abdaly, Omar H. Al-Rawi, Mustafa R. Al-Shaheen*</i>	OP5

PARALLEL SESSION 2B TOPIC D: PACKAGING TECHNOLOGY (Pink Flamingo) Chair: Dr. Rosfariza Radzali		
Time	Title/Presenter	ID
2:30 pm	Surface Interaction of Silver (Ag) Nano Particle in Electrically Conductive Adhesives for Electrical Performance INVITED TALK: Ghazali Omar*	PT1
2:45 pm	UV Modified Epoxy for LED Encapsulant Lay Boon Cheah* , Prabakaran Poopalan	PT2
3:00 pm	Europium and Dysprosium Ions Co-Doped White Light Luminescence Magnesium Sulfoborate Glasses for White LED S.A. Dalhatu* , Rosli Hussin, Bulus Ibrahim	PT3
3:15 pm	Chromaticity Properties of Curcuminoids Dye Nanofibers Prepared by Electrospinning for White Light Down-Conversion Mahmood Shaikh Khan Taeab Said Al Shafouri* , Naser M. Ahmed ¹ , Zainuriah Hassan, Munirah Abdullah Almessiere	PT4
3:30 pm	The Effect of Graphene Loading on Natural Rubber Latex/Graphene Stretchable Conductive Material Wern Ming Che* , Pei Leng Teh, Cheow Keat Yeoh	PT5

ORAL SESSION

SESSION 3

DAY 1: 29th APRIL 2019 (MONDAY)

PARALLEL SESSION 3A TOPIC B: OPTICAL and ELECTRONIC MATERIALS (Flamingo Ballroom) Chair: Dr. Mohd Zaki Mohd Yusoff		
Time	Title/Presenter	ID
4:15 pm	Perkin Elmer Lambda Series: UV-VIS Spectrophotometer with Flexible Sampling Accessories for Advanced Optical Characterization Yee Khai Ooi* , Boon Chun Tan	OE7
4:30 pm	The Influence of Synthesis Temperature on the Crystal Structure and Surface Morphology of β -Ga ₂ O ₃ Nanostructures Peeverga Rex Jubu* , Fong Kwong Yam	OE8
4:45 pm	Morphological and Structural Characteristics of Porous GaN Fabricated by UV-Assisted Electrochemical Etching N.S.M. Razali* , A.F.A. Rahim, R. Radzali, A. Mahmood, M.F.B Anuar	OE9
5:00 pm	Role of NH ₄ F Concentration in Enhancing the Physical Properties on TiO ₂ Nanotube Arrays via Anodization Method Najwa Ezira Ahmed Azhar* , Shafinaz Sobihana Shariffudin, Munirah Safiay, Rozina Abdul Rani, Mohamad Rusop Mahmood	OE10

5:15 pm	Amazing Solution of NEXION 2000, ICPMS in Nanoparticles Analysis <i>Chady Stephan, Catrina Ng*</i>	OE11
5:30 pm	Microstructure Study of Calcium Manganese Oxide (CaMnO ₃) as Perovskite Materials <i>Siti Nurhaziqah Abd Majid*, Afiqah Qayyum Ishak, Nik Aziz Nik Ali, Muhamad Zalani Daud, Hasiah Salleh, Nurhayati Ishak</i>	OE12

PARALLEL SESSION 3B TOPIC A: DEVICES (Pink Flamingo) Chair: Dr. Irni Hamiza Hamzah		
Time	Title/Presenter	ID
4:15 pm	Enhanced Performance of ZnO Nanowire Field Effect Transistors by AZO and Al Heterojunction Source/Drain Contacts <i>Nor Azlin Ghazali*, Martin Ebert, Maurits de Planque, Harold Chong</i>	D7
4:30 pm	Influence of Sn Dopant on ZnO Thin Film for Formaldehyde Gas Detection <i>Syafiqah Ishak*, Shazlina Johari, Muhammad Mahyiddin Ramli</i>	D8
4:45 pm	Photocatalytic Fuel Cell Based on Zinc Oxide Loaded Carbon Plate Photoanode for Simultaneous Photocatalytic Degradation of AZO Dyes and Electricity Generation <i>Yong Por Ong*, Li Ngee Ho, Soon An Ong, Johar Banjuraizah, Abdul Haqi Ibrahim</i>	D9
5:00 pm	D8 Discover for Semi-Conductor Application <i>George Tang*</i>	D10
5:15 pm	Improved Rectification Performance in Hybrid Structure of Self-Switching Device (SSD) and Planar Barrier Diode (PBD) in Near Terahertz Region <i>N.F. Zakaria*, S.R. Kasjoo, Z. Zailan, M.M. Isa, M.K.M. Arshad, S. Taking</i>	D11
5:30 pm	Effect of Post Heat Treatments on ITO/AgAl/ITO/p-Si Contacts <i>Aliyu Kabiru Isiyaku*, Ahmad Hadi Ali, Nafarizal Nayan</i>	D12

ORAL SESSION

SESSION 4

DAY 2: 30th APRIL 2019 (TUESDAY)

PARALLEL SESSION 4A

TOPIC B: OPTICAL and ELECTRONIC MATERIALS

(Flamingo Ballroom)

Chair: Dr. Ainorkhilah Mahmood

Time	Title/Presenter	ID
11:00 am	Novel Sensors Based on III-Nitrides and Porous Silicon INVITED TALK: Giacinta Parish* , Brett Nener, Adrian Keating	OE13
11:15 am	Rapid Reduction of Graphene Oxide Thin Films on Large-Area Silicon Substrates Marianah Masrie* , Siti Aishah Mohamad Badaruddin, Mohd Rofei Mat Hussin, Nik Mohamad Razali Mohd Nor, Jeremy Joe	OE14
11:30 am	Dye-Sensitized Solar Cell Utilizing Silver Doped Reduced Graphene Oxide Films Counter Electrode: Effect of Silver Nitrate Content on Its Performance M.Y.A. Rahman* , N. Mustafa, A.A. Umar	OE15
11:45 am	The Effect of Mn and Fe Substitution in $\text{LiCo}_{0.9}\text{X}_{0.1}\text{O}_2$ Cathode Materials Nor Syamilah Syamimi Mohd Abdillih* , Kelimah Elong, Norlida Kamarulzaman, Nurhanna Badar	OE16
12:00 pm	Effect of Li Doped in MgO on Band Gap Energy Nor Fadilah Chayed* , Nurhanna Badar, Kelimah Elong, Norlida Kamarulzaman	OE17
12:15 pm	Impact of Eu Nanoparticles Substitution for Ca Site in Bi(Pb)-2223 Cuprates Superconductor E. S. Nurbaisyatul* , H. Azhan, K. Azman, N. Ibrahim, S. F. Saipuddin	OE18
12:30 pm	Surface Morphology Studies on Laser Irradiated Target and Bi(Pb)SrCaCuO Thin Films A.N. Jannah* , S. A. Halim, H. Abdullah	OE19
12:45 pm	Synthesis of Metal Doped Mesoporous (001) Faceted Anatase Titanium Dioxide Nanoplate and Its Photocatalytic Activity Study Siti Khatijah Md Saad* , Akrajas Ali Umar	OE20

PARALLEL SESSION 4B

TOPIC C: ORGANIC and POLYMERIC MATERIALS

(Pink Flamingo)

Chair: Dr. Azrinawati Mohd Zin

Time	Title/Presenter	ID
11:00 am	Preparation of Novel Commercial Polyaniline/Shell Composites for Ammonia Detection Muhammad Musa Jusoff Albar , Nurul 'Ain Jamion, Siti Nor Atika Baharin, Kavirajaa Pandian Sambasevam*	OP6

11:15 am	Response of Coleus Blumei Potted Plants to the Shading and Spraying by Coconut Water <i>Haytham. M. M. SAlabdaly, Saad A. Mahmood, Omar H. Muslah Almohammed, Mustafa R. Al-Shaheen*</i>	OP7
11:30 am	Fabrication of Highly Stable Non-Volatile Memory Device Using Plasma-Polymerized Hexamethyldisiloxane Layers with Embedded Graphene Quantum Dots <i>Poh Choon Ooi, Mohd Farhanulhakim Mohd Razip Wee*, Afifuddin Husairi Hussain, Chang Fu Dee, Azrul Azlan Hamzah</i>	OP8
11:45 am	Long Chain Imidazolium Ionic Liquids as Template in the Formation of Mesoporous Silica Nanospheres <i>Eleen Dayana Mohamed Isa*, Haslina Ahmad, Mohd Basyaruddin Abdul Rahman</i>	OP9
12:00 pm	Investigation on Electrical and Structural Properties of Multilayer OLED Structure Fabricated using Spin-Coating Technique <i>Nurul Afiqah Nor Ismail*, Nurjuliana Juhari, Safizan Shaari, Norhayati Sabani, Mohd Fairus Ahmad¹, Nor Farhani Zakaria</i>	OP10
12:15 pm	Measurement of Mass Attenuation Coefficient of Polyvinyl Alcohol (PVAL) as Breast Tissue Equivalent Material in the Photon Energy Range of 15.77-25.26 keV <i>Franca Oyiwoja Okoh*, Norlaili Ahmad Kabir, Mohd Fahmi Mohd Yusof</i>	OP11
12:30 pm	Excited State Conformational Relaxation of Space-Through Charge Transfer Thermally-Activated Delayed Fluorescence <i>Kai-Lin Woon*, Chih-Lun Yi, Kuan-Chung Pan, Marc K. Etherington, Chung-Chih Wu, Ken-Tsung Wong, Andrew P. Monkman</i>	OP12
12:45 pm	A Simplest, Cheapest and Most Efficient Technique to Enhance the Performance of Hybrid Solar Cell: Deposition of Purple Seaweed as Photosensitizer <i>Salmah Mohd Ghazali, Hasiah Salleh*, Ahmad Nazri Dagang, Nik Aziz Nik Ali, Nurhayati Ishak, Nurul Huda Kamaruzaman, Mohd Sabri Mohd Ghazali, Mohd Norizam Md Daud, Nora'aini Ali</i>	OP13

ORAL SESSION

SESSION 5

DAY 2: 30th APRIL 2019 (TUESDAY)

PARALLEL SESSION 5A

TOPIC A: DEVICES

(Flamingo Ballroom)

Chair: Dr. Alhan Farhanah Abd Rahim

Time	Title/Presenter	ID
2:30 pm	Nano-Porous GaN Waveguiding in High Power Blue Edge Emitting Laser Diodes <i>Ryan Anderson*, Dan Cohen, Phillip Chan, Shlomo Mehari, Tal Margalith, Shuji Nakamura, James S. Speck, Steven P. DenBaars</i>	D13

2:45 pm	Ray Tracing of Light Trapping Schemes in Thin Crystalline Silicon for Photovoltaics Mohd Zamir Pakhuruddin*	D14
3:00 pm	Effect of Ultrasonic Agitation and Spinning Speed on the Photovoltaic Properties of Inverted Organic Solar Cell using Solution-Dispersed Copper Iodide as Anode Buffer Layer Farah Liyana Khairulaman* , Chi Chin Yap	D15
3:15 pm	Broadband Anti-Reflection in Black Silicon Fabricated by Two-Step Silver-Assisted Wet Chemical Etching for Photovoltaics Auwal Abdulkadir* , Nur Afidah Md. Noor, Azlan Abdul Aziz, Mohd Zamir Pakhuruddin	D16
3:30 pm	Enhance Charge Transfer Resistance in Fibrous CuPt Bimetallic Counter Electrode in DSSCs Devices Muhamad Adam Ramli* , Siti Khatijah Md Saad, Elvy Rahmi Mawarnis, Mohd Yusri Abd Rahman, Akrajas Ali Umar	D17

PARALLEL SESSION 5B TOPIC B: OPTICAL and ELECTRONIC MATERIALS (Pink Flamingo) Chair: Dr. Lyly Nyl Ismail		
Time	Title/Presenter	ID
2:30 pm	Spin Coated with Different Additives Value Thin Films: Physical, Structural, Optical and Electrical Characteristics R.A. Rahman* , N.S.M. Kamar, M.A. Zulkefle, Z. Mohamad, S.H. Herman, R.I. Alip	OE21
2:45 pm	Visible Light Photocatalysis Using Nb-Doped TiO ₂ Nanoparticles Synthesized via Facile Sol-Gel Method S. Munirah* , R.A. Rani, N.E.A. Azhar, N.A.M. Asib, Z. Khusaimi, F. Hamzah, M. Rusop	OE22
3:00 pm	Electro-Optic Coefficient of Barium Titanate (BaTiO ₃) N.Amira Razilam* , Prabakaran Poobalan, W.Syaibah W. Ramli	OE23
3:15 pm	Al Doped LiNi _{0.6} Co _{0.3-x} Ti _{0.1} Al _x O ₂ via Combustion Method Wan Aida Hazwani Wan Azizan* , Muhd Firdaus Kasim, Roshidah Rusdi, Kelimah Elong	OE24
3:30 pm	Photometric Detection of Heavy Metals Using Biosynthesized Gold Nanoparticles Adamu Ibrahim Usman* , Azlan Abdul Aziz	OE25

ORAL SESSION

SESSION 6

DAY 2: 30th APRIL 2019 (TUESDAY)

PARALLEL SESSION 6A

TOPIC B: OPTICAL and ELECTRONIC MATERIALS

(Flamingo Ballroom)

Chair: Dr. Mohd Muzafa Jumidali

Time	Title/Presenter	ID
4:15 pm	Deposition of Calcium Carbonate Thin Film by Chemical Vapour Deposition Method N.H. Sulimai* , Z. Khusaimi, M.J. Salifairus, M.F. Malek, Salman Alrokayan, Haseeb Khan, M. Rusop	OE26
4:30 pm	The Effect of Hydrogen Concentration on Chemical Vapour Deposition Synthesis of β -Ga ₂ O ₃ Nanostructures Pevega Rex Jubu* , Fong Kwong Yam	OE27
4:45 pm	Fabrication and Physical Characterization of Electrospun PVA-ZnO Fibers with Different Deposition Distance M.A. Zulkefle* , R.A. Rahman, K.A. Yusof, Z. Zulkifli, S.H. Herman	OE28
5:00 pm	Investigation the Characteristics of ZnO Multilayer Structure for Ionization Radiation Detection Amal Mohamed Ahmed Ali* , Naser M. Ahmed, Norlaili A. Kabir, Sabah M. Mohammad	OE29

PARALLEL SESSION 6B

TOPIC C: OPTICAL and ELECTRONIC MATERIALS

(Pink Flamingo)

Chair: Dr. Sabah M. Mohammad

Time	Title/Presenter	ID
4:15 pm	Investigation on the Ohmic Characteristic of Ni/Ti/4H-SiC Muhammad Idzdihar Idris, Zul Atfyi Fauzan Mohammed Napiah*	OE30
4:30 pm	Synthesis of Boron Nitride Doped Polypyrrole Hybrid Nanocomposite for Photocatalytic Degradation of 2-Chlorophenol from Aqueous Solution Faizah Mohammad Yunus, Siti Nor Atika Baharin*	OE31
4:45 pm	Ballistic Performance Evaluation of Aluminium Plate Impact by Fragment Simulating Projectile M.R. Aziz* , M.F. Zainol	OE32
5:00 pm	Effect of Laser Ablation on Light Scattering Hayma Chandran* , Prabakaran Poopalan	OE33

POSTER SESSION

DAY 1 and 2: 29th APRIL 2019 (MONDAY) and 30th APRIL 2019 (TUESDAY)

(Foyer of Flamingo Ballroom)

	Title/Presenter	ID
1	The Effect of Ni and Cu Catalysts on the Growth of Graphene Under Different Ethanol Flow Rates Using Atmospheric Pressure Chemical Vapor Deposition Raed Abdalrheem* , F.K. Yam, Abdul Razak Ibrahim, H.S. Lim, K.P. Beh, Ammar A. Oglat ¹ , Khaled M Chahrour, Sabah M. Mohammad, M.Z. Mat Jafri	P01
2	Fabrication of SiNWs-FET Nanostructure via Atomic Force Microscopy Lithography Nurain Najihah Alias* , Khatijah Aisha Yaacob, Cheong Kuan Yew	P02
3	Dependence of V ₂ O ₅ Nanorods Properties on Substrate Type Prepared by Simple Hydrothermal Method N.M. Abd-Alghafour* , Ghassan Adnan Naeem, Sabah M. Mohammad	P03
4	Effect of Post-Annealing in Oxygen Environment on ITO Thin Films Deposited Using RF Magnetron Sputtering N.A. Hamzah* , R.I.M. Asri, M.A. Ahmad, Mohd Ann Amirul Zulffiqal Md Sahar, Z. Hassan	P04
5	Optimization of Titanium Dioxide Layer Fabrication Using Doctor Blade Method in Improving Efficiency of Hybrid Solar Cells Nurul Huda Kamarulzaman* , Hasiah Salleh, Ahmad Nazri Dagang, Mohd Sabri Mohd Ghazali, Nurhayati Ishak, Zakiah Ahmad	P05
6	Application of Conjugated Chlorophyll From Natural Dye (Imperata Cylindrica) In Hybrid Dye Sensitized Solar Cell for Third Generation Solar Energy Nurhayati Ishak* , Hasiah Salleh, Salisa Abdul Rahman, Ahmad Nazri Dagang, Nurul Huda Kamarulzaman, Zakiah Ahmad, Siti Nurhaziqah Abd Majid	P06
7	Synthesis and Characterization of Silica Aerogel from Rice Husk with Ambient Pressure Drying Method Nor Fadilah Mohamad , Noor Hidayu Abdul Rani, Omar Syah Jehan Elham* , Siti Hajar Anaziah Muhamad, Siti Afifah Muda	P07
8	Effect of Varying Thermal Annealing Temperature on the Characteristics of Lower and Higher Mg-Doped GaN A.M. Hanafiah* , Z. Hassan, W.F. Lim, N. Ibrahim, E.A. Alias, M.A. Ahmad, N.A. Hamzah, R.I.M. Asri	P08
9	Cytotoxicity Effect of Zinc Oxide Nanoparticles with Different Particle Sizes on Human Endothelial EA.hy926 Cell Line Abdulsalam Abuelsamen* , Shahrom Mahmud, Noor Haida Mohd Kaus, Nur Mariam Kamaruddin, Omar F. Farhat, Fouad Saleih R. Al-Suede, Amin Malik Shah Abdul Majid	P09
10	Synthesize of Anodic TiO ₂ Nanotube Arrays Annealed at 700°C for UV Photodetection Khaled M. Chahrour* , F. K. Yam, Raed Abdalrheem	P10
11	Comparative Studies between Porous Silicon and Porous P-Type Gallium Nitride Prepared Using Alternating Current Photo-Assisted Electrochemical Etching Technique S.N. Sohimee* , Z. Hassan, Naser M. Ahmed, R. Radzali, H.J. Quah, W.F. Lim	P11

12	Electrode-Less Photo-Assisted Etching of p-type and n-type GaN N. Ibrahim* , M. Ikram Md Taib, S.N. Waheeda, E.A. Alias, N. Zainal	P12
13	Effects of Different Amounts of Surfactant on Characteristics of Sol-Gel Dip Coated Gallium Nitride Thin Films Maizatul Akmam Ab Hamid* , Ng Sha Shiong	P13

	Title/Presenter	ID
14	UV-Blue Light Conversion Using Dyes Polymeric Materials Alaa Falih Ismael*	P14
15	Effect of GaN Nucleation Layer Temperature on Structural and Morphological Properties of UD-GaN Template Grown on PSS M.A. Ahmad* , N.A. Hamzah, R.I.M. Asri, N. Zainal, Z. Hassan	P15
16	Photocatalytic Performance of ZnO and Mn Doped ZnO Nanomaterials via Sol-Gel Method Muhd Firdaus Kasim* , Ahmad Khairul Azfar Bin Darman, Hartini Ahmad Rafaie	P16
17	Band Gap Narrowing of Mg _{1-x} Cu _x O Nanostructured Materials Nurhanna Badar* , Norlida Kamarulzaman, Ri Hanum Yahaya Subban, Nor Fadilah Chayed, Kelimah Elong	P17
18	Morphological and Structural Properties of Sol-Gel Derived ZnO Thin Films Spin-Coated on Different Substrates Nabihah Kasim* , Zainuriah Hassan, Way Foong Lim, Sabah M. Mohammad, Hock Jin Quah	P18
19	Morphological and Particle Size Studies of LiCo _{0.3} Ni _{0.3} Mn _{0.3} Ti _{0.1-x} Sn _x O ₂ Cathode Materials Kelimah Elong* , Norlida Kamarulzaman, Nor Fadilah Chayed, Nurhanna Badar, Nor Syamilah Syamimi Mohd Abdillih	P19
20	Reaction Temperature Effect on Pullulan Mediated Zinc Oxide Synthesis and Its Photocatalytic Activity Eleen Dayana Mohamed Isa* , Nurfatehah Wahyuni Che Jusoh, Roshasnorlyza Hazan, Kamyar Shameli	P20
21	The Growth of AlN Single Layer on Sapphire at Low Pressure Using Metalorganic Chemical Vapor Deposition (MOCVD) Mohd Ann Amirul Zulffiqal Md Sahar* , Zainuriah Hassan, Way Foong Lim, M.E.A. Samsudin, A.M. Hanafiah, Yusnizam Yusuf, M.A. Ahmad, Nur Atiqah Hamzah, Rahil Izzati Mohd Asri	P21
22	Synthesis and Characterization of Fe ₃ O ₄ @Citric Acid Nanoparticles Mohammed Ali Dheyab* , Azlan Abdul Aziz, Mahmood S Jameel	P22
23	Effect of Thickness and Doping Concentration of Aluminium to the Fabrication of Al-Doped ZnO Mohd Hanapiah Abdullah, Mohd Muzafa Jumidali* , Nur Yasmin binti Yuseri, Syarifah Adilah Mohamed Yusoff	P23
24	Characteristics of Cu-Doped ZnO Films Prepared Using Magnetron Co-Sputtering A.S. Yusof* , Z. Hassan	P24
25	Porosification Analysis on the Effect of Resistivity Dependence on n-Type Pulsed Porous Silicon Nurul Hanida Abd Wahab, Alhan Farhanah Abd Rahim, Ainorkhilah Mahmood, Noorezal Atfyinna Mohammed Napiah* , Rosfariza Radzali, Yushamdan Yusof	P25

26	Effects of Post-Deposition Annealing Time in Forming Gas Ambient on Y ₂ O ₃ Films Deposited on Silicon Substrate Hock Jin Quah* , Kuan Yew Cheong, Zainuriah Hassan, Way Foong Lim	P26
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