

3rd MRS-ID Meeting Program

Tuesday, 31 July 2018

Time	Activity
3:00 PM - 5:00 PM	Registration at Aston Hotel Denpasar
5:00 PM - 8:00 PM	Opening Speech and Welcome Dinner at Bebek Cacao Park Address: Jl. Ir. Sutami, Desa Kemenuh, Gianyar (Buses are provided at Aston Hotel Denpasar) Co Chair:

Wednesday, 1 August 2018

Time	Activity		
	Room 1	Room 2 (Ballroom)	Room 3
Session 1 (Parallel Session)			
Co Chair:			
9:00 AM - 9:10 AM	Keynote A1: <u>H.O. Lintang</u>	B1 <u>M.Ota, Y.Hirotaka, Y.Uchida, N. Nishiyama</u>	C1 <u>A.A.I.A.S.Komaladewi, A.K.Wardani, I.W.Surata, I.D.G.A.Subagia, I.G.Wenten</u>
	Photocatalyst Luminescent Composites of Group 11 3,5-Dimethyl Pyrazolate Complexes/Titanium Oxide for Removal and Degradation of 2,4-Dichlorophenoxyacetic Acid	Low Temperature Synthesis of Lithium Titanate Nanoparticles for Lithium Ion Batteries	The effect of annealing and stretching parameters on the structure and performance of polypropylene hollow fiber membrane
9:10 AM - 9:20 AM		B2 <u>D.Irmavianti, L.Roza, M.A.E.Hafizah, C.Irmawan, Vivi Fauzia</u>	C2 <u>F.Khoerunnisa, H.Hendrawan, Y.Sonjaya, S.Zarha</u>
		Gold Sharp-branch Mesoflower as Catalyst for Hydrogenation of Acetone to Isopropanol	Enhanced Anti-biofouling Properties of Chitosan/PEG/ MWCNT Nanocomposites based Ultrafiltration Membrane with Benzalkonium Chloride

9:20 AM - 9:30 AM	A1 <u>Y.N.Wijayanto, A.A.Fathan, A.Kano, D.Mahmudin, P.Daud</u>	Metamaterial Antena on Electro-optical Modulator for Wireless Terra-Hertz Detection through Radio-over-fiber Technology	Keynote B1: <u>T.Wakihara, Z.Liu, K.Okabe, C.Anand, Y. Yonezawa, H.Yamada, A. Ando, Y.Yanaka, T.Yoshikawa, K.Ohara, T.Okubo</u>	C3 <u>S.N.A.Jenie, F.S.H.Krismastuti, Y.Kusumastuti, H.T.B.M.Petrus, A.Kristani</u>
				Fluorescent Nanoparticles based on Natural Silica for the Optical Detection and Bioimaging of Bacteria
9:30 AM - 9:40 AM	A2 <u>S.Muhammady, Y.Kurniawan, M.A.K. Purbayanto, Y. Darma</u>	The effect of deficiencies on the optical properties and plasmonic states of zinc oxide: A first-principle study	Continuous Flow Synthesis of ZSM-5 Zeolite on the Orders of Seconds	C4 <u>H.Sutanto, I.Marhaendrajaya, G.W.Jaya, E.Hidayanto, A.S.Supratman, S.Y.Astuti, T.Budiono, M.A.Firmansyah</u>
9:40 AM - 9:50 AM	A3 <u>D.Mahmudin, D.P.Kurniadi, P. Daud, Y.N.Wijayanto, G.Sugandi, R.V.Manurung, A.Rifqi, M.Zain, S.Shaari</u>	Design of Single Side Band Microwave Photonic Filter based on Multipath Optical Ring Resonator for Radio over Fiber Application	Keynote B2: <u>S.L.Lee, Y.K.Ooi, L.Yulianti</u>	C5 <u>R.Anggraeni, R.Martien, D.Agustina, I.D.Ana</u>
				Incorporation of Ovalbumin Protein into Carbonate Apatite for Candidate of Vaccine Adjuvant
9:50 AM - 10:00 AM	A4 <u>Arramel, H.Pan, T.J.Whitcher, M.D.Birowosuto, J.Wu, A.Rusydi, A.T.S.We</u>	Plasmonic Signature of Zetherene Derivative Thin Films Studied by Generalized Spectroscopic Ellipsometry	Comparison Study on Molybdena-Titania Supported On TUD-1 and TUD-C: Properties and Catalytic Performance	C6 <u>N.Wahida, S.Hartati, Y.A.Rezeki, D.Edikresnha, M.M.Munif, K.Khairurrijal</u>
10:00 AM - 10:10 AM	A5 <u>N.Yulianto, S.Bornemann, J.Gulink, Y.Herbani, S.Mariana, R.P.H.Adji, J.D.Prades, A.Waag, H.S.Wasisto</u>	Selective-area femtosecond laser lift-off processing of GaN LED chips	B3 <u>N.Aini, S.N.Chasanah, S.N.Khalifah, V.Suendo, A.Prasetyo</u>	Keynote C1: <u>A.N.N.Malek and I.Ramli</u>
				Preparation and Properties of $Ti_{0.997}V_{0.003}O_2$ Photocatalyst Supported on Indonesian Natural Zeolite Using Sonochemical Method
10:10 AM - 10:20 AM	A6 <u>S.Mariana, G.Hamdana, M.Bertke, J.Dickmann, C.Michel, J.Meyer, N.Yulianto, G.Cagnoli, E.Peiner, A.Waag, M.Granata, S.Kroker, H.S.Wasisto</u>	Fabrication of SiO_2 microcantilever arrays for mechanical loss measurements	B4 <u>W.W.Lestari, L.Larasati, H.Suwarno, U.S.F.Arrozi</u>	Preparation and antibacterial properties of cetylpyridinium bromide modified silver-loaded kaolinite
10:20 AM - 10:30 AM	Coffee Break and Poster Session			

Afternoon Plenary Session (Ballroom)

Co Chair :

10:30 AM - 11:00 AM	Plenary Speaker 1 Prof. Norikazu Nishiyama – Osaka University, Japan		
	Design of Zeolite Composite Catalysts for Selective Formation of Light Olefin and p-Xylene		
11:00 AM - 11:30 AM	Plenary Speaker 2 Ranjeet Singh - Micromeritics, India		
	Textural characterization of catalyst by gas adsorption methods		
11:30 AM - 12:00 PM	Plenary Speaker 3 Assoc. Prof. Lydia Wong – Nanyang Technological University, Singapore		
	Low cost, solution processed materials for solar energy harvesting devices		
12:00 PM - 1:00 PM	Lunch		
Session 2 (Paralel Session)			
Co Chair :			
1:00 PM - 1:10 PM	Keynote A2: <u>H.S.Wasisto, F.Yui, K.Strempel, M.F.Fatahilah, K.Frank, H.Kamrani, F.Romer, H.W.Schumacher, B.Witzigmann, A.Waag</u>	B5 <u>A.T.N. Fajar, G.T.M.Kadja, M.K.Wardani, I.N.Marsih, Subagjo, V.Suendo, R.R.Mukti</u>	C7 <u>K.Kamaruddin, I.Sriyanti, D.Edikresnha, M.M.Murni, K.Khairurrijal</u>
	Vertical 3D GaN nanowire field-effect transistors	Mesoporous MOR zeolite prepared via sequential acid and base post-synthetic treatment	Effect of Flow Rate on Submicron Particles Formation of Electrospayed Polyvinylpyrrolidone/Green Tea Extract and Antioxidant Activities of the Particles
1:10 PM - 1:20 PM	Vertical 3D GaN nanowire field-effect transistors	B6 <u>G.T.M.Kadja, I.R.Kadir, A.T.N.Fajar, V.Suendo, R.R.Mukti</u>	C8 <u>S.Hartati, N.Wahida, Y.A.Rezeki, D.Edikresnha, M.M.Murni, K.Khairurrijal</u>
		Sequential solid-liquid behavior in the seed-assisted synthesis of CHA zeolite without organic structure-directing agents	Mechanical Properties of Electrospun Fiber PVP/CA Loaded Mangosteen Extract
1:20 PM - 1:30 PM	A7 <u>M.A.K.Purbayanto, Suryana, Y.Kurniawan, E.Nurfani, Y.Darma</u>	Keynote B3: <u>E.Febriyanti, R.R.Mukti, V.Suendo</u>	C9 <u>H.D.Rahmayanti, E.Yuliza, E.Sustini, M.Abdullah</u>
	Self-Assembled In-Plane ZnO Nanorods Grown by DC-Unbalanced Magnetron Sputtering for Photodetector Application	The Origin and Development of Continuous Lamellar Morphology in Mesoporous Silica	Highly Water Absorbent from Nata de coco
A8 <u>M.Taspika, F.A.Permatasari, B.W.Nuryadin, A.H.Aimon, F.Iskandar</u>	C10 <u>I.F.Sukmana, P.Widiatmoko, I.Nurdin, H.Devianto, T.Prakoso</u>		
1:30 PM - 1:40 PM	Simultaneous Ultraviolet and Near-infrared Absorption of Homogeneous Luminescence Carbon Dots/PVA Composite Film		Effect of ZnCl ₂ on Properties of Graphene Produced from Palm Empty Fruit Bunch

1:40 PM - 1:50 PM	Keynote A3: Takase Kouichi	B7 <u>N.A.Zen</u> , A.A.Pramana, A.H.Aimon, F.Iskandar	C11 <u>N.T.U.Culsum</u> , A.Wibowo, R.R.Mukti, Y.W.Budhi
	Physical properties of layered natural superlattice	Development of Faujasite-Type Zeolite and Fe ₂ O ₃ Nanoparticles Mixed Catalyst for Aquathermolysis Reaction of Heavy Oil	Synthesis and Charaterization of Cellulose Nanocrystals (CNCs) from Denim Industrial Waste
1:50 PM - 2:00 PM			B8 <u>W.Wulandari</u> , M.Fatmawati, G.Palwaguna, <u>J.Rizkiana</u> , D.Sasongko
	The Fusion-Hydrothermal Method to Synthesize Zeolite A from Coal Fly Ash		Effect of Crosslinker Addition on Degradation Rate of Chitosan/Alginate/Geothermal Silica Scaffold
2:00 PM - 2:10 PM	A9 <u>T.Granz</u> , M.Temming, J.Xu, Qomaruddin, C.Fabrega, N.Yulianto, L.Daul, L.Koenders, K.Triyana, E.Peiner, J.P.Prades, A.Waag, H.S.Wasisto	B9 <u>Pawawoj</u> , A.Manaf, D.Prajitno, R.Adhitya	Keynote C2: V.Saraswati, I.K.Adnyana, S.Pudjiraharti, Heni Rachmawati
	UV-activated gas sensors using ZnO nanorods grown on AlN/Si substrates	The Porosity and Hardness of Fe-18Al Alloy Doped with Nanoparticle ZrO ₂	Nanomilling process to improve efficacy of Melinjo seed hard shell bioactive fraction
2:10 PM - 2:20 PM	A10 <u>Nurhayati</u> , V.Suendo, Y.Majima, A.A.Nugroho, A.Aini, S.Lee	B10 <u>T.W.Samadhi</u> , W.Wulandari, A.Suroto, D.S.Agung	
	STM/STS and Temperature-Dependent Photoluminescence Studies of Tetraphenylporphyrin Molecules	Synthesis of Geopolymer from Blends of Tropical Biomass Ashes	
2:20 PM - 2:30 PM	A11 <u>W.O.S.Arsyad</u> , A.Pristianti, L.Agusu, R.Hidayat	Keynote B4: Y.W.Budhi , M.Firlina, M.Z.Irriyanto, E.Restiawaty, M.Miyamoto, N.Nishiyama, S.Uemiya	C13 <u>R.M.Putri</u> , J.J.L.M.Cornelissen, N.Katsonis
	rGO Based Photo-anode in Dye-Sensitized Solar Cells (DSSC) and Its Photovoltaic Characteristics	Hydrogen Permeation through Pd82-Ag18/Al ₂ O ₃ Membrane during Start-up Period in the Presence of N ₂ and CO	Transforming Protein Hybrids into Photo-Responsive Semi-Synthetic Nanoplatforms
2:30 PM - 2:40 PM	A12 <u>R.V.Manurung</u> , B.A.Prabowo, G.Wiranto, I.D.P.Hermida, <u>E.S.Rosa</u>		C14 <u>L.Handojo</u> , A.Wardani, <u>P.Aryani</u> , I.G.Wenten
	Miniaturized, a Planar Ion Nitrate Sensor Prepared by Electropolymerization of Pyrrole Based on Thick Film Technology	Recent Development of Lactic Acid Production using Membrane Bioreactors	

2:40 PM - 2:50 PM	A13 <u>Qomaruddin, C.Fabrega, A.Waag, A.Sutka, O.Casals, H.S.Wasisto, J.P.Prades</u> Visible – light – activated CaFe ₂ O ₄ nanopowders for room temperature gas sensors	B11 <u>I.C.Sophiana, F.Iskandar, H.Deviyanto, Y.W.Budhi</u> Combination Effect of Metal Oxide Based Catalysts: Copper Oxide, Mangan Oxide, and Nickel Oxide with Ce _{0.75} Zr _{0.25} O ₂ as Support for Catalytic Oxidation of Benzene	C15 L.Handojo, Khoirudin, P.Aryanti, I.G.Wenten Nutraceuticals Recovery from Natural Extracts using Membrane Technologies
2:50 PM - 3:00 PM		B12 <u>M.N.A.Shah, R.Ismail, K.N.Ismail, A.Hadi</u> Novel Synthesis of High Surface Area Nano-CeZrO ₂ : Study on the microstructure and textural properties	C16 <u>A.Afikah, V.Wijaya, Y.W.Budhi, A.Wibowo</u> Synthesis of Cellulose Nanocrystals from Office Waste Papers Using Ammonium Persulfate
3:00 PM - 3:10 PM	Coffee Break and Poster Session		
Evening Plenary (Ballroom)			
Co Chair :			
3:10 PM - 3:40 PM	Plenary Speaker 4 Prof. Andrey Rogach – City University of Hong Kong, China Light-Emitting Colloidal Nanostructures		
3:40 PM - 4:10 PM	Plenary Speaker 5 Prof. Kunio Ishikawa – Kyushu University, Japan Carbonate apatite -Next generation artificial bone augmentation material-		
6:30 PM - 8:00 PM	Gala Dinner at Aston Hotel Denpasar		

Thursday, 2 August 2018

Time	Activity		
	Room 1	Room 2	Room 3
Session 1 (Paralel Session)			
Co Chair:			
9:00 AM - 9:10 AM	Keynote D1: A.M.Pradipto, T.Akiyama, T.Ito, K.Nakamura	E1 <u>N.I.Khamidy, E.Djurado</u>	F1 <u>R.Jonuarti, T.D.K.Wungu,</u> F.Haryanto, Suprijadi
	Electric field effects to magnetism and magneto-transport of metal thin films	LaPrNiO _{4+δ} as an innovative oxygen electrode for intermediate temperature solid oxide cells: improving the electrochemical properties by varying the architectural design	Effects of the Impurity Configurations on the Electronic Properties of Boron Nitride Nanotube
9:10 AM - 9:20 AM		E2 <u>J.Raharjo, H.Yuliani, Damisih,</u> A.U.Hapsari, Masmui, Grandevi	F2 <u>A.Suhendar,</u> I.A.Putra,D.Mujahidin, Y.F.Ali, U.Pasarai, R.Aditama, R.Hertadi
		Effect of polyethylene glycol to the physical properties of gadolinium doped cerium (Ce _{0.9} Gd _{0.1} O _{1.95})nanoparticles synthesized by co-precipitation method	Molecular Dynamics Study of Oleic acid-based Surfactants for Enhanced Oil Recovery
9:20 AM - 9:30 AM	D1 <u>D.Rahmawati, R.Hidayat,</u> A.H.Aimon, F.Iskandar	E3 <u>S.D.Marella, N.Aini, R.Handayani,</u> A.Hardian, V.Suendo, A.Presetyo	F3 <u>R.Marimpul, T.Winata, F.A.Noor,</u> I.Syuhada, A.Rosikhin
	Green Fabrication of Transparent Electrode based Reduced Graphene Oxide (RGO) using Ascorbic Acid as Reduction Agent	The Effect of Calcination Temperature to the Molten Salt Synthesis of Platelet-Like Particle Bi ₄ Ti ₃ O ₁₂ using Single NaCl Salt	Molecular Dynamics Simulation of Platinum Film Growth Based on Thermal Evaporation Method
9:30 AM - 9:40 AM	D2 <u>R.Maharsi, A.F.Arif, T.Ogi,</u> F.Iskandar, H.Widiyandari	Keynote E1: C.Fabrega, O.Casals, F.H.Ramirez, J.D.Prades	F4 <u>D.H.Prajitno and V.Trisnawan</u>
	Electrochemical properties of TiOx/rGO composite as an electrode for supercapacitor		Evaluation Wettability of nanofluid on the Surface of Zircalloy 4 Before and after Oxidation
9:40 AM - 9:50 AM	D3 <u>B.Setiawan, A.H.Aimon, F.Iskandar,</u> A.Purwanto	Efficient self – heating in nanowire sensors: What for and How to	F5 <u>P.Pitriana, T.D.K.Wungu, H.Bahar,</u> R.Hidayat
	Electrochemical Impedance Analysis of Polyvinylpyrrolidone-coated Sulfur/reduced Graphene Oxide (rGO) Electrode		Electronic Structure Calculation of Lead-Free All-Inorganic Perovskite APbBr ₃ (A = Li, Na, K, Rb and Cs) using Density Functional Theory (DFT) Method

9:50 AM - 10:00 AM	D4 <u>M.Diantoro</u> , Z.Nurdiana, S.Suryani, Nasikhudin	E4 <u>A.Badruzzaman</u> , D.Junia, F.D.Dirgantara, V.Marsya, C.E.Rustana, D.S.Khaerudini	F6 <u>U.Nuravifah</u> , S.E.Putri, Y.W.Budhi
	Fabrication of CA-TiO ₂ -BaTiO ₃ /Al-Foil Supercapacitor and Its Microstructural, Capacitance, and Electrical Conductivity	Hydrogen Storage Based on Activated Carbon from Waste Chicken Feather as Hydrogen Storage Material Application	Simulation of Effective Ni-based Catalyst Design Using Microkinetic Models of CO _x Methanation on Dynamic Fixed-Bed Reactor
10:00 AM - 10:10 AM	D5 <u>A.O.Nandika</u> , A.Patah, A.Rochliadi	E5 <u>V.Marsya</u> , F.D.Dirgantara, D.Junia, A.Badruzzaman, C.E.Rustana, S.P.Simanungkalit	Keynote F1: <u>Adam B. Cahaya</u>
	Ionic Liquids (ILs)-based Electrolytes System for Lithium Ion Batteries	The Utilization of Limonene to produce Bioavtur by using Hydrogenation Method	Spin Current Generation in 1 Dimensional Spin Chain Model of Insulating Magnetic Interface
10:10 AM - 10:20 AM	D6 <u>B. Priyono</u> , D.Sepala, Faizah, A.Z.Syahrial, A.Subhan	E6 <u>L. Oktavio</u> , W.N.Putra, C.A.Ramadhan, S.Harjanto	
	Optimizing Lithium Titanat (Li ₄ Ti ₅ O ₁₂) Anode Performance for Lithium-ion Batteries with addition of tin element (Sn) and surface modification using Activated Carbon	Effect of Sodium Dodecylbenzene Sulfonate as Anionic Surfactant on Water based Carbon Nanofluid Performance as Quench Medium in Heat Treatment Process	
10:20 AM - 10:30 AM	Coffee Break and Poster Session:		
Afternoon Plenary (Ballroom)			
Co Chair :			
10:30 AM - 11:00 AM	Plenary Speaker 6 Prof. Andreas Waag – Technische Universität Braunschweig, Germany		
	GaN optoelectronics: integration and miniaturization		
11:00 AM - 11:30 AM	Sponsor Dr. Leo Ding - Era Mitra, Quantum Design USA		
	Introduction of the cutting-edge techniques that are produced by Quantum Design USA		
11:30 AM - 12:00 PM	Plenary Speaker 7 Prof. Russel F. Howe – University of Aberdeen, United Kingdom		
	Catalytic Chemistry of Methanol to Hydrocarbons Investigated with Vibrational Spectroscopies		
12:00 PM - 1:00 PM	Lunch		

Session 2 (Paralel Session)			
Co Chair :			
1:00 PM - 1:10 PM	D7 C. Kurniawan, S.Wahyuni, Ramlan, P.Sebayang	E7 Z.Jalil, A.Rahwanto, A.Hasan, H.Malahayati, E. Handoko	F7 Fauziah A., F.A.Permatasari, A.H.Aimon, F.Iskandar
	Effect of Particle Size Distribution on the Preparation of Bonded NdFeB Permanent Magnet	Effect of High Energy Ball Milling on the Desorption Temperature of MgH ₂ Catalyzed with Natural-SiO ₂ for Hydrogen Storage Materials	Fourier Transform Infrared Study on BCNO Phosphor Synthesized by a Urea Combustion Method
1:10 PM - 1:20 PM	D8 P.E.D.Putra, R.Irfanita, B.Triono, M.A.Baqiya, Darminto, T.Kawamata, T.Noji, H.Sato, M.Kato, Y.Koike	E8 M.Ariati and W.N.Putra	F8 Y.Dwihapsari, S.N.Zakiah, Darminto
	Paramagnetic Properties of Reduced T'-Pr _{2-x} Ce _x CuO ₄ Nanocrystals	Effects of Nitriding-Shot Peening Surface Treatment to die soldering behavior of H13 and Cr-Mo-V Tool steel on die casting process	On the Application of Diffusion Magnetic Resonance Imaging for Study of Agarose
1:20 PM - 1:30 PM	D9 A.Fadli, K.Komalasari, A.Adnan, R.Rahimah, A.I.S.Addabsi	E9 W. Amananti, I.Tifani, A. Susanto, H. Sutanto, Iis Nurhasanah	F9 M.Yusfi, T.D.K.Wungu, M.M.Munir, Suprijadi
	Synthesis of Magnetite Nanoparticles via Co-precipitation Method	Effect of ZnO Precursor Concentration on Optical Properties of ZnO Thin Films Deposited by Sol-Gel Method 8	Adsorption of C ₂ H ₂ , C ₂ H ₄ , and C ₂ H ₆ on Fe-doped SWCNT
1:30 PM - 1:40 PM	D10 A. Taufiq, S.Sunaryono, N.Hidayat, M.Diantoro, A.Hidayat, N.Mufti, S.Soontaranoon, E.G.R.Putra, D.Darminto	Keynote E2: PT Fajar Mas Murni	F10 G.T.M.Kadja, Ismunandar, P.Setiawan, R.Kurniawan, B.Burhan, A.A.Oktaviana, Rustadi, B.Hakim
	Hierarchical Structure, Statics and Dynamics Magnetic Properties of Fe _{2.45} Mn _{0.45} O ₄ Ferrofluid		Investigation on the chemistry of Indonesia pre-historic rock art
1:40 PM - 1:50 PM	D11 N.A.S.Effendi, N.S.Samsi, R.Zakaria, O.H.Hassan, M.K.Yaakob, M.F.M.Taib, M.Z.A.Yahya, A.M.M.Ali	To be decided	F11 Fitriana, D.R.Adhika, B.Yulianto, Irzaman, Ferdiansjah, M.Z.Fahmi
	Electron transport studies of graphene - zinc oxide composite thin films		Impact of Different ZnO Nanorods Preferred Orientation on Their CO Gas Sensing Properties
1:50 PM - 2:00 PM	D12 A.R.Fareza, L.Roza, V.Fauzia	E10 D.P.Benu, V.Suendo, R.R.Mukti	F12 H. Madani, A.Wibowo, Y.W.Budhi
	Rapid Synthesis of Silver Nanowires for Transparent Conducting Electrodes Applications	Controlled Morphology Synthesis of γ -Al ₂ O ₃ using Reverse Micelle Template	Effect of Extractives Content in Oil Palm Empty Fruit Bunch (OPEFB) to Preparation of Cellulose Nanocrystals (CNCs) through Ammonium Persulfate (APS) Oxidation Method

2:00 PM - 2:10 PM	D13 <u>Masripah, J.Setiawan, A.Zulys</u>	E11 <u>A.F.Fadli, S.Julaika, W.Widiyastuti, H.Setyawan</u>	Keynote F2: <u>Leny Yulianti</u>
	Synthesis and Characterize the Electronic Properties of Silicon Carbide Fiber as Electronic Semiconductor	Synthesis of Sulfonic Acid Mesoporous Silica-Carbon as Catalyst for Biodiesel Production	Response Surface Methodology to Optimize the Performance of Reduced Graphene Oxide-Carbon Nitride Photocatalysts
2:10 PM - 2:20 PM	D14 <u>A.Z.Syahrial and L.T.Putriana</u>	E12 <u>Fahmi, D.N.A.Ayu, Widiyastuti, S.Heru</u>	
	Effect of Sr Addition on the Microstructure and Mechanical Properties of Aluminum ADC12/Nano-SiC Composite with Al-5TiB Grain Refiner by Stir Casting Method	Synthesis of Coconut Shell Based Graphite and Graphene	
2:20 PM - 2:30 PM	D15 <u>A.Z.Syahrial and V.D.Sartika</u>	E13 <u>L.Utari, B.Yulianto, Nugraha, Irzaman, Ferdiansjah, M.Z.Fahmi</u>	F13 <u>M.F.M Taib, D.T. Mustaffa, N.H. Hussin, A.M.M. Ali, O.H. Hassan, M.Z.A. Yahya</u>
	The Role of Nano-SiC on Characteristics of Mg-Al-Sr/Nano-SiC Composites Produced by Stir Casting Route	Synthesis of ZnO Nanorods/Graphene Layer Grown on Cotton Fabric by Chemical Bath Deposition	First Principles Study on Zn doped MgO towards its application for Photocatalyst using Hubbard U correction
2:30 PM - 2:40 PM	D16 <u>S.Saehana, Darsikin, Z.Arifin, Nasar</u>	E14 <u>G.Febrianto, D.Karisma, D.Mangindaan</u>	F14 <u>Y.Susanti, G.T.M.Kadja, A.Maghfirah, R.R.Mukti</u>
	Optimization of Fabricating Fluorine-doped Tin Oxide by Using Spray Pyrolysis Methods	Polyetherimide nanofiltration membranes modified by interfacial polymerization for treatment of textile dye wastewater	Amorphization of HY zeolite during hot liquid water treatment: Effect of temperature and time
2:40 PM - 2:50 PM	D17 <u>N.Z.S.Noreaini, M.K.Yaakob, A.M.M.Ali, O.H.Hassan, M.Z.A.Yahya</u>	E15 <u>A.Maghfirah, G.T.M.Kadja, Y.Susanti, R.R.Mukti</u>	F15 <u>R.J.Pamungkas, Rachmawati, I.M.Arcana</u>
	Structural Modification on Multiferoic Bi _{1-x} GaxFeO ₃ and its Effect in Dielectric and Magnetic Properties	Tetraalkylammonium-controlled dealumination of FAU zeolite	The Effect of Mangan Palmitate as Pro-Oxidant Additive on Mechanical Properties of Polypropylene
2:50 PM - 3:00 PM	D18 <u>R.D.Septianto, S.Zulkarnaen, L.Liu, Y. Ishida, T.Aida, L. Prorescu, M.Kovalenko, F.Iskandar, Y.Iwasa</u>	E16 <u>A.T.N. Fajar, F.A.Nurdin, G.T.M.Kadja, R.R.Mukti</u>	F16 <u>G.U.N.Tajalla, L.A.T.W.Asri, A.Wibowo</u>
	Morphology Control of Colloidal Quantum Dots Assembly and Its Implication towards Electronic Transport	Enhancing catalytic performance of MOR zeolite by impregnation of ceria	Green Synthesis of Silver Nanoparticles Using Extract of Indonesian Sweet Potatoes var. Cilembu and Its Antibacterial Properties
3:00 PM - 3:10 PM		E17 <u>S.Budiaman, H.Bahti, A.Mutolib, A.Anggraeni</u>	F17 <u>I.D.Aditya, D.Matsunaka, S.Suprijadi, Y.Shibutani</u>
		Plackett Burman Design for Separation Parameter Optimization of Gadolinium through Liquid – Liquid Extraction and Gradual Striping with Dibutylthiophosphate (DBTP) as Extractant	Interfacial Interaction between Carbon Nanotubes and Ceramic Surfaces

3:10 PM - 3:20 PM		E18 M.J.Jalil, A.F.M.Yamin, I.S.Azmi, S.H.Chang, N.Morad, A.Hadi	F18 M.Z. Mohyedin, A. Radzwan, M.F.M Taib, M. Mustaffa, A. Shaari, A.M.M. Ali, O.H. Hassan, M.Z.A. Yahya
3:20 PM - 3:30 PM	Coffee Break and Poster Session		
Evening Plenary (Ballroom)			
Co Chair :			
3:30 PM - 4:00 PM	Plenary Speaker 8 Prof. Mikrajudin Abdullah – Institut Teknologi Bandung, Indonesia Granular Matter Behavior: Familiar Phenomena but Still Challenging		
4:00 PM - 4:30 PM	Award and Closing Ceremony Co Chair:		

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4	H.Aripin, I.Usrah, N.Busaeri, R.Priyadi, Y.Hermawan, I.N.Sudiana, I.M.Joni, S. Sabchevski Structural Characterization of Mixed Local Material for a Ceramic Porcelain Insulator
7	E.Sustini, Khairurrijal, F.A.Noor, R.Syariati The Effect of Strain to the Energy Band Gap of Bilayer Graphene and Bilayer Armchair Graphene Nanoribbon (AGNR)
14	A.A.I.A.S. Komaladewi, Khoiruddin, I.D.G.A. Subagia, D.I. Astuti, I.G. Wenten Antimicrobial hollow fiber polypropylene/ZnO membrane for effective air filtration
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21	Y.Kurniawan, S.Muhammady, R.Ichwan, Y.Darma Electronic and optical properties of two-dimensional alpha-lead oxide (α -PbO): A first-principles study
42	A.U.Hapsari, J.Raharjo, H.Yuliani, I.G.A.Suradharmika, Damisih, D.P.Sari Synthesis and Characterization of Gadolinium doped Cerium ($\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$) by using Various Carbonates as a Precipitant
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