

Symposium 1 : Smart Grid and Regulation
 Date : 07 September 2018
 Time : 08.00 - 10.30
 Room : Rama
 Session Chair : Dr. Sri Djangkung Sumbogo Murti

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Dr. Mazidah Mamat as Invited Speaker	<u>M. Mamat</u> , M.A.A Abdullah, A.M Jaafar	Universiti Malaysia Terengganu	Layered Double Hydroxide: Synthesis and Application	190	08.00-08.15	
2	Subekti Bekti	<u>Subekti Bekti</u> , Abdul Hammid and Adi Surjosatyo	Universitas Indonesia	The Use Of Flow-Induced Vibration as an Alternative Resource of New Power Plant in Indonesia	193	08.15-08.30	
3	Kurnianto Joyonegoro	<u>Kurnianto Joyonegoro</u> , Eko Adhi Setiawan and Angga Romana	Universitas Indonesia	Development and Comparison Analysis of Electrical Energy Consumption Model Using Principal Component Regression Method for Small Island	253	08.30-08.45	
4	Jamsep Andreas	<u>Jamsep Andreas</u> and Eko Adhi Setiawan	Universitas Indonesia	Performance Test of 2.5 kW DC Boost Converter for Nanogrids System Application	254	08.45-09.00	
5	Riadhi Fairuz	<u>Riadhi Fairuz</u> , Eko Adhi Setiawan and Ikhsan Hernanda	Universitas Indonesia	Mapping and Analysis of Initial Cost Against Levelized Cost of Energy for Residential PV Rooftop in Indonesia	256	09.00-09.15	
6	Ikhsan Hernanda	<u>Ikhsan Hernanda</u> , Eko Adhi Setiawan and Riadhi Fairuz	Universitas Indonesia	Techno Economic Analysis Photovoltaic On-Grid System Java Bali to Optimize PLN Energy Consumption	263	09.15-09.30	
7	Rio Agustian Fajarin	Erfan Syahputra, Eko Adhi Setiawan and <u>Rio Agustian Fajarin</u>	Universitas Indonesia	Characteristic Analysis of Photovoltaic On-Grid System In Tropical Region For Weather-Corrected Performance Ratio Calculation Method Implementation	257	09.30-09.45	
8	Rio Agustian Fajarin	<u>Rio Agustian Fajarin</u> , Eko Adhi Setiawan and Andy Prakoso	Universitas Indonesia	Analysis Corrected Performance Ratio on Photovoltaic Through Four Temperature Cell Model N	259	09.45-10.00	
9	Gilang G Utomo	Yanuar, <u>Gilang G Utomo</u> , Fajri A Rayhan and Agus S Pamitran	Universitas Indonesia	Experimental investigations of ice slurry flow based on monoethylene glycol at high ice fractions	281	10.00 - 10.15	
10	Andre Kurniawan	<u>Andre Kurniawan</u> and Nasruddin	Universitas Indonesia	CFD Simulation of Silica Gel as an Adsorbent on Finned Tube Adsorbent Bed	177	10.15-10.30	

Symposium 2 : Bioenergy
 Date : 07 September 2018
 Time : 08.00 - 10.30
 Room : Shinta
 Session Chair : Dr. Ir. Gabriel S. Boedi Andari, M.Eng

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Hendra Kristianto	<u>Hendra Kristianto</u> , Hadi Saputra, Yuswan Muharam	Universitas Indonesia	Effect increase of CO2 concentration at amine still capability to fulfill sale gas specification	46	08.00-08.15	
2	Budiman Saragih	Sri Rachmawati Siregar, <u>Budiman Saragih</u> , Agus Nurrokhmat and Adi Surjosatyo	Universitas Indonesia	Evaluation of Waste to Energy Conversion Technology using Multi Criteria Assessment in Bantargebang Landfill, Indonesia	94	08.15-08.30	
3	Budiman Saragih	<u>Budiman Ricardo Saragih</u> , Sri Rachmawati Siregar and Adi Surjosatyo	Universitas Indonesia	Evaluation of Waste Potential in TPST Bantargebang Through Modified Triangular Method	212	08.30-08.45	
4	Adinda Diandri Putri	Yuswan Muharam and <u>Adinda Diandri Putri</u>	Universitas Indonesia	Simulation of Hydrotreating Vegetable Oil in a Slurry Bubble Column Reactor for Green Diesel Production	159	08.45-09.00	
5	Rizka Thalita Adevia	Yuswan Muharam and <u>Rizka Thalita Adevia</u>	Universitas Indonesia	Modelling of a Slurry Bubble Column Reactor for Green Fuel by Hydrocracking Vegetable Oil	168	09.00-09.15	
6	Crysnarendra Prajna	Gabriel Andari Kristanto and <u>Crysnarendra Prajna</u>	Universitas Indonesia	Determination of optimum total solid of hydrothermal waste processing product in mechanical drying	203	09.15-09.30	
7	Handrianto Wijaya	<u>Handrianto Wijaya</u> and Bambang Heru Susanto	Universitas Indonesia	Modification of Analytical Semi Empirical Model (ASEM) as a Function of Pressure and Temperature to Representate the Yield of Renewable Diesel via Hydrocracking Reaction	127	09.45-10.00	
8	Aditha Oktariany	<u>Aditha Oktariany</u> and Sutrasno Kartohardjono	Universitas Indonesia	Effect of coagulant dosage on tofu industry wastewater treatment in combination with ultrafiltration process using polysulfone membrane	17	10.00-10.15	
9	Ardiyansyah Yatim	<u>Ardiyansyah Yatim</u> , Ade Luthfi, Raden Cehmilo, Radho Dhelika	Universitas Indonesia	Biogas-fueled Stirling engine for electric power generation	100	10.15-10.30	

Symposium 3 : Multifunctional and Advanced Materials
 Date : 07 September 2018
 Time : 08.00 - 10.15
 Room : Kharisma Ballroom
 Session Chair : Prof. Dr. Anne Zulfia

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Associate Professor Dr. Anwar Usman as Invited Speaker	<u>Anwar Usman</u> , Abdullah Kamit, A. Mustaqim Samsudin, M. Ashrul Asbollah, Fairuzeta Ja'afar, Hartini M. Yasin, Eny Kusriani	Universiti Brunei Darussalam Universitas Indonesia	Polymer solar cells: Recent development and possible utilization of microsized polymer donor-polymer acceptor system		08.00-08.30	
2	Nadia Alisha	Setiadi, Wawan Irawah Sah and <u>Nadia Alisha</u>	Universitas Indonesia	The Influences of Transglutaminase Enzyme Dosage on the Meat Characteristics from Restructuring the Animal and Vegetable Protein Sources	246	08.30-08.45	
3	Radifan Fajaryanto	Yuliusman, Radifan Fajaryanto, <u>Annisaa Nurgomariah</u> and Silvia Silvia	Universitas Indonesia	Acid leaching and kinetics study of cobalt recovery from spent lithium-ion batteries with nitric acid	165	08.45-09.00	
4	Silvia	Silvia Silvia, Yuliusman, Annisaa Nurgomariah and Radifan Fajaryanto	Universitas Indonesia	Recovery of cobalt and nickel from spent lithium ion batteries with citric acid using leaching process: Kinetics study	50	09.00-09.15	
5	Widyaningsih Bungin Sura	Sotya Astutiningsih, <u>Widyaningsih Bungin Sura</u> ' and Ahmad Zakiyuddin	Universitas Indonesia	Comparison of the Compressive Strength and The Microstructure of Metakaolin Metastar and Bangka Island Metakaolin as Additive in Portland Cement Type-I	133	09.15-09.30	
6	Yugo Widhi Nugroho	Yuliusman, Nasruddin, <u>Yugo Nugroho</u> , Hizba Naf'An and Jervis Sinto	Universitas Indonesia	Preparation and characterization of soybean straw activated carbon for natural gas storage	115	09.30-09.45	
7	Tulus Sukreni	<u>Tulus Sukreni</u> , Nadya Saarah Amelinda, Nelson Saksono and Setijo Bismo	Universitas Indonesia	Optimization of Fe ²⁺ addition for degradation process of textile dye waste using contact glow discharge electrolysis with air injection	200	09.45-10.00	
8	Natasha Egieara	Bambang Priyono, <u>Natasha Chandri Egieara</u> , Anne Zulfia Syahrial, Chairul Huda, Achmad Subhan, and Heri Jodi	Universitas Indonesia	The Effect of Activated Carbon And Silicon Oxycarbide as Anode Materials on Lithium Ion Battery	181	10.00-10.15	
9	Narayana Radiawan	B Priyono, <u>N Y Radiawan</u> , A H Yuwono, C Huda, A Subhan, N Sofyan	Universitas Indonesia	Optimization of Li ₄ Ti ₅ O ₁₂ (LTO) performance through the addition of ZnO-Nanorods using sol-gel solid state method process as half-cell lithium-ion battery anode	182	10.15-10.30	

Symposium 4 : Eco Tropical Built Environment
 Date : 07 September 2018
 Time : 08.00 - 10.15
 Room : Arjuna
 Session Chair : Dr. Faizatul Shimal Mehamod

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Sarah Aisha	<u>Sarah Aisha</u> and Dalhar Susanto	Universitas Indonesia	Green Estate in Jakarta: Branding or Reality	126	08.00-08.15	
2	Andersen Yunan	Dewi Tristantini and <u>Andersen Yunan</u>	Universitas Indonesia	Characterization of Cellulose Acetate Based on Empty Fruit Bunches and Dried Jackfruit Leaves as Replacement Candidates for Microbeads	118	08.15-08.30	
3	Renno Afriansyah	<u>Renno Afriansyah</u> , Sheila Nadhifa and Setijo Bismo	Universitas Indonesia	Performance test and operating condition optimization of parallel plate plasma reactor for carbon dioxide decomposition	77	08.30-08.45	
4	Sheila Nadhifa	<u>Sheila Nadhifa</u> , Renno Afriansyah and Setijo Bismo	Universitas Indonesia	Proof of Ozone generation process	79	08.45-09.00	
5	Meidina Sekar Nadisti	<u>Meidina Sekar Nadisti</u> , Nur Annisa and Setijo Bismo	Universitas Indonesia	Waste treatment of remazol blue compounds based on ozonation/AOP in a bubble column reactor	85	09.00-09.15	
6	Nur Annisa	<u>Nur Annisa</u> , Meidina Sekar Nadisti and Setijo Bismo	Universitas Indonesia	Degradation of batik dye wastewater in basic condition by ozonation technique in bubble column reactor	88	09.15-09.30	
7	Muhammad Umar	<u>Muhammad Umar</u> , Arman Faslih and Mazhfia Umar	University of Halu Oleo	USAGE PERIOD OF NIPAH LEAF nypa fruticans wurmb. WITH SALT WATER TREATMENT AS ROOFING MATERIAL	4	09.30-09.45	
8	Alditho Farrasi Anantoputra	Gabriel Andari Kristanto and <u>Alditho Farrasi Anantoputra</u>	Universitas Indonesia	Estimating Emission from Gas Power Plant in Palembang, Indonesia Using Different Emission Factors	204	09.45-10.00	
9	Eka Pradipta		Department of Architechure Universitas Indonesia	Effects of Tree to Reducing Microclimate Temperature on some Certified Green Building in Jakarta	64	10.00 - 10.15	

Symposium 1 : Smart Grid and Regulation
 Date : 07 September 2018
 Time : 10.30 - 12.15
 Room : Rama
 Session Chair : Dr. Ardiyansyah

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Istighfari Dzikri	<u>Istighfari Dzikri</u> , Michael Hariadi, Retno Wigajatri and Nji Raden Poespawati	Universitas Indonesia	Analysis of the role of hole transport layer materials to the performance of perovskite solar cell	237	10.30-10.45	
2	Tomy Abuzairi	<u>Tomy Abuzairi</u> , Kresna Devara, Andrew Bastian, Ananta Rezky, Wing Wira A Ramadhan and Arief Udhiarto	Universitas Indonesia	Development of Semi-Integrated Solar Street Lamp for Rural Area	191	10.45-11.00	
3	Andrew Bastian	<u>Andrew Bastian</u> , Kresna Devara, Savira Ramadhanty and Tomy Abuzairi	Universitas Indonesia	Design of Portable Emergency Lamp Utilizing Thin Film Solar Cell and Inflatable Case	206	11.00-11.15	
4	Ananta Rezky Fernando	<u>Ananta Rezky Fernando</u> , Kresna Devara, Nurian Satya Wardana, Savira Ramadhanty and Tomy Abuzairi	Universitas Indonesia	Simple Method of I-V Characterization Curve for Low Power Solar Cell Using Arduino Nano	214	11.15-11.30	
5	Wing Wira A Ramadhan	<u>Wing Wira A Ramadhan</u> , Ananta Rezky Fernando, Andrew Bastian, Arief Udhiarto and Tomy Abuzairi	Universitas Indonesia	Development of Simple Solar Charge Controller Using 8-bit Microcontroller ATtiny85	205	11.30-11.45	
6	Michael Hariadi	<u>Michael Hariadi</u> , Istighfari Dzikri, Nji Raden Poespawati and Retno Purnamaningsih	Universitas Indonesia	Fabrication of Low Cost Perovskite Solar Cell under Ambient Conditions Using Only Spin Coating Deposition Method	238	11.45-12.00	
7	Y.B. Lukiyanto	Iswanjono, <u>Y.B. Lukiyanto</u> , Rines and Budi Setyahandana	Universitas Sanata Dharma	A couple of generator and motor as electric transmission system of a driving shaft to long distance driven shaft	139	12.00-12.15	
8	Xiaochuan Liu	<u>Xiaochuan Liu</u> , Tianyang Zhao, Leong Hai Koh, Peng Wang and Cheong Boon Soh	Nanyang Technological University	Quality of Service Guaranteed Flexibility Harvesting from Electric Vehicles: A Game Theoretic Approach	41	12.15-12.30	

Symposium 2 : Bioenergy
 Date : 07 September 2018
 Time : 10.30 - 12.30
 Room : Shinta
 Session Chair : Assoc. Prof. Dr . Lee D. Wilson

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Adi Surjosatyo	Hafif Dafiqurrohman, Adi Surjosatyo and Muhammad Barryl Anggriawan	Universitas Indonesia	Experimental Investigation of Double Stage Air Intake in Throat-less Downdraft Biomass Gasifier	217	10.30-10.45	
2	Sulthan Rafii Ardiansyah	<u>Sulthan Rafii Ardiansyah</u> , Nining Betawati Prihantini and Nasruddin	Universitas Indonesia	Effect of Aeration in Simple Photobioreactor System for Biomass Production of <i>Synechococcus</i> sp. HS-7 and HS-9 as Biofuel Feedstock	73	10.45-11.00	
3	Joni Prasetyo	<u>Joni Prasetyo</u> , Sri Murti, Andi Latief, Samuel Senda, Dwi Prasetyo, Zulaicha Hastuti, Fusia Yanti, Firdaus Juanda, Edwin Permana and Lince Muis	BPPT	POME utilization for bio-hydrogen production targeting for biofuel : optimization and scale up	25	11.00-11.15	
4	Joni Prasetyo	<u>Joni Prasetyo</u> , Nurdiah Rahmawati, Galuh Murti, Sri Murti, Tyas Puspitarini, Astri Pertiwi, Fusia Mirdayanti, Erlan Rosyadi, Herman Hidayat, Adiarso, Yuta Sudo and Reiji Noda	BPPT	Preliminary Study of local calayst for low cost methanol synthesis as subsequence process of a model system of biomass fludizsd bed catalytical gasification	196	11.15-11.30	
5	Matthew Hardhi	<u>Matthew Hardhi</u> , Putty Ekadewi, Rita Arbianti, Tania Surya Utami and Heri Hermansyah	Universitas Indonesia	Improvement of biohydrogen production in microbial electrolysis cell (MEC) system by tackling methanogenesis through biological competition at the biocathode	80	11.30-11.45	
6	Putri Anggun Puspitarini	<u>Putri Anggun Puspitarini</u> , Hidayati Istiqomah, Putty Ekadewi, Tania Surya Utami, Rita Arbianti and Heri Hermansyah	Universitas Indonesia	Optimizing a concentration of NaCl and $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}$ with microbial desalination cell from the usage of lake UI water	54	11.45-12.00	
7	Siti Norasmah Surip	Wan Nor Raihan Wan Jaafar and <u>Siti Norasmah Surip</u>	Universiti Teknologi MARA (UiTM) Malaysia	Comparison Study on Bio-Degradation Property of Polylactic Acid (PLA) Green Composites Reinforced By Kenaf Fibers	8	12.00-12.15	
8	Putty Ekadewi	<u>Putty Ekadewi</u> , Matthew Hardhi, Putri Anggun Puspitarini, Hidayati Istiqomah, Cristina Gomez, Rita Arbianti, Tania Surya Utami and Heri Hermansyah	Universitas Indonesia	Applied voltage optimization for denitrification rate improvement by denitrifying strains of <i>Pseudomonas</i> in microbial electrolysis cell (MEC)	145	12.15-12.30	

Symposium 3 : Multifunctional and Advanced Materials
 Date : 07 September 2018
 Time : 10.30 - 12.30
 Room : Kharisma Ballroom
 Session Chair : Assoc. Dr. Volkan Degirmenci

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Akhmad Herman Yuwono	<u>Akhmad Herman Yuwono</u> , L. Suhaimi, N Sofyan, A Sholehah and C Hudaya	Universitas Indonesia	Nanostructural Growth Investigation of ZnO Nanorods derived from Chemical Bath Deposition for Transparent Heater Application	300	10.30-10.45	
2	Muhamad Taufiq Hidayat	<u>Muhamad Taufiq Hidayat</u> and Abdul Wahid	Universitas Indonesia	Study of Chemical Injection Application with Capillary String Technique to Overcome Liquid Loading in X1 Well, West Java	53	10.45-11.00	
3	Dicky Liberman Tambun	Sotya Astutiningsih, <u>Dicky Liberman Tambun</u> and Ahmad Zakiyuddin	Universitas Indonesia	Comparative Study: Mechanical and Metallurgical Properties of Geopolymer Using Metakaolin Bangka and Metastar as Precursor	128	11.00-11.15	
4	Mauhibah Yumna	<u>Mauhibah Yumna</u> , Angelina, Abdullah, Rita Arbianti, Tania Surya Utami and Heri Hermansyah	Universitas Indonesia	Effect of Mother-in-Law's Tongue Leaves (<i>Sansevieria trifasciata</i>) extract's solvent polarity on Anti-diabetic Activity through in vitro α -glucosidase enzyme inhibition test	33	11.15-11.30	
5	Mazidah Mamat	<u>Mazidah Mamat</u> , Mohd Aidil Adhha Abdullah, Maisara Abdul Kadir, Adila Mohd Jaafar and Eny Kusrini	Universiti Malaysia Terengganu	Preparation of layered double hydroxides with different divalent metals for the adsorption of methyl orange dye from aqueous solution	190	11.30-11.45	
6	Agustina Ay Simanjuntak	<u>Agustina Ay Simanjuntak</u> and Eny Kusrini	Universitas Indonesia	Feasibility Study of Zeolite A Synthesis Production Based On Kaolin from Bangka-Belitung Region	104	11.45-12.00	
7	Annisa Muliahati	Zulfah, Eva Fathul Karamah and <u>Annisa Muliahati</u>	Universitas Indonesia	Energy Audit on Oil and Gas Production Facility in Indonesia: Case Study at Field Y, East Kalimantan	37	12.00-12.15	
8	Annisa Muliahati	<u>Annisa Muliahati</u> , Eva Fathul Karamah and Ika Kaifiah	Universitas Indonesia	Study of domestic coal-based dimethyl ether (DME) utilization to reduce LPG import	35	12.15-12.30	

Symposium 4 : Eco Tropical Built Environment
 Date : 07 September 2018
 Time : 10.30 - 12.15
 Room : Arjuna
 Session Chair : Prof. I Nyoman Suprpta Winaya, ST,MA.Sc., Ph.D.

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Mukti Andriyanto	<u>Mukti Andriyanto</u> and Triatno Yudo Harjoko	Universitas Indonesia	Invisible housing, a house that is consumed by low-income communities in the informal sector for urbanization.	170	10.30-10.45	
2	Fildza Miranda	Yulia Nurliani Lukito and <u>Fildza Miranda</u>	Universitas Indonesia	The Earlier Era of Eco-Technology: Pavilions at the Colonial Exhibition of Pasar Gambir and the 'western-eastern' Architectural Influences in the Netherlands Indies	231	10.45-11.00	
3	Allifna Lie Ulin Nuha	Yulia Nurliani Lukito and <u>Allifna Lie Ulin Nuha</u>	Universitas Indonesia	Sustaining the Culture of the City: Architecture and Cosmology in the Mantingan Mosque and Cemetery Complex in Jepara	216	11.00-11.15	
4	Alan Damero Parhusip	<u>Alan Damero Parhusip</u> , Yuswan Muharam and Mirza Mahendra	Universitas Indonesia	Risk Analysis of SPBG Infrastructure Development Process On Time Aspect With Monte Carlo Method	121	11.15-11.30	
5	Andersen Yunan	Dewi Tristantini and <u>Andersen Yunan</u>	Universitas Indonesia	Advanced characterization of microbeads replacement from cellulose acetate based on empty fruit bunches	280	11.30-11.45	
6	Mikhael Johannes	Paramita Atmodiwirjo, <u>Mikhael Johannes</u> , Diandra Saginatari and Yandi Andri Yatmo	Universitas Indonesia	Ecological Aspects of the Traditional Brick Making Process in Pedurungan Kidul, Central Java	194	11.45-12.00	
7	Rini Suryantini	<u>Rini Suryantini</u> , M. M. Y. Harahap, Yandi Andri Yatmo and Nandy Putra	Universitas Indonesia	Thinking Ecology for Architecture: Exploration of Cool Pocket	229	12.00-12.15	

Symposium 2 : Bioenergy
 Date : 07 September 2018
 Time : 13.30 - 16.00
 Room : Shinta
 Session Chair : Prof. Kunio Yoshikawa

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Faracitra Akuwalifah Kusumadewi	Mahmud Sudibandriyo and <u>Faracitra Akuwalifah Kusumadewi</u>	Universitas Indonesia	Hydrogen Recovery from Hydrogen-Methane Gas Mixture Using Coffee Grounds Based Activated Carbon Bioadsorbent	243	13.30-13.45	
2	Cindy Priadi	<u>Reigina Sandritay</u> , <u>Cindy Priadi</u> and Septiana Kurnianingsih	Universitas Indonesia	Potential of biogas production from anaerobic co-digestion process of oil and grease waste and food waste	248	13.45-14.00	
3	Subhan Petrana	<u>Subhan Petrana</u> , Eko Adhi Setiawan and Adi Januardi	Universitas Indonesia	Solar Panel Performance Analysis under Indonesian Tropic Climate using Sandia PV Array and Five Parameter Model	261	14.00-14.15	

4	Subhan Petrana	Andy Prakoso, Eko Adhi Setiawan and Erfan Syahputra, <u>Subhan Petrana</u>	Universitas Indonesia	Development of Solar Cell and Fuel Cell Integration Model and Economic Analysis in On Grid and Off Grid System	262	14.15-14.30	
5	Angga Romana	<u>Angga Romana</u> , Eko Adhi Setiawan and Kurnianto Joyonegoro	Universitas Indonesia	Comparison of Two Methods for Designing The Solar PV System for Small Islands	276	14.30-14.45	
6	Arif Rahman	<u>Arif Rahman</u> , Sanjaya Bs Nasution, Sri Rh Siregar and Nasruddin	Universitas Indonesia	Multi Objective Optimization of Microalgae Flat Plate Photobioreactor Design	283	14.45-15.00	
7	Melody Gita Oratmangun	Mahmud Sudibandriyo and <u>Melody Gita Oratmangun</u>	Universitas Indonesia	Betung bamboo-based activated carbon bioadsorbent for the separation of hydrogen-methane gas mixture	208	15.00-15.15	
8	Mohd Azlan Mohd Ishak	Nurul Shazlinie Abdul Shukor, Azil Bahari Alias, <u>Mohd Azlan Mohd Ishak</u> , Raja Razuan Raja Deris and Khudzir Ismail	Universiti Teknologi MARA	Sulphur dioxide gas adsorption study using mixed activated carbon of different biomass	83	15.15-15.30	
9	Jabosar Ronggur Hamonangan Panjaitan	Misri Gozan, <u>Jabosar Ronggur Hamonangan Panjaitan</u> , Chandra Paska Bakti and Siswa Setyahadi	Universitas Indonesia	Variation of pH and temperature in response surface methodology for cellulase production from Bacillus sp. BPPT CC RK2	268	15.30-15.45	
10	Hidayati Istiqomah	<u>Hidayati Istiqomah</u> , Putri Anggun Puspitarini, Putty Ekadewi, Tania Surya Utami, Rita Arbianti and Heri Hermansyah	Universitas Indonesia	Reduction of COD and BOD Concentration in Lake Water of Universitas Indonesia with Microbial Desalination Cell System and Utilizing Bio Charcoal as Electrode	69	15.45-16.00	

Symposium 2 : Bioenergy
 Date : 07 September 2018
 Time : 13.30 - 16.00
 Room : Rama
 Session Chair : Dr. Mazidah Mamat

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Aliff Muhammad Orlando	<u>Aliff Muhammad Orlando</u> , Nining Betawati Prihantini and Nasruddin	Universitas Indonesia	Effects of Aeration Intensity as Agitation in Simple Photobioreactors on Leptolyngbya HS-16 Growth as Biofuel Feedstock	91	13.30-13.45	
2	Nurul Rakhmayanti	<u>Nurul Rakhmayanti</u> , Nining Betawati Prihantini, Sri Handayani and Nasruddin	Universitas Indonesia	A Low-Cost Media for Leptolyngbya Strain Growth Isolated from Indonesia as A Potential Biofuel Feedstock	95	13.45-14.00	
3	Alinda Nurmarina	<u>Alinda Nurmarina</u> , Nining Betawati Prihantini, Sri Handayani and Nasruddin	Universitas Indonesia	Growth of Mastigocladus HS-46 Isolated from Indonesia in Media NPK as A Potential Biofuel Feedstock	129	14.00-14.15	
4	Nining Betawati Prihantini	<u>Nining Betawati Prihantini</u> , Sri Handayani, Wellyzar Sjamsuridzal, Akira Yokota and Nasruddin	Universitas Indonesia	Fatty Acid Characterization of Indigenous Cyanobacterial Strains Isolated from Five Hot Springs in Indonesia	131	14.15-14.30	
5	Cahyo Setyo Wibowo	Bambang Sugiarto, <u>Cahyo Setyo Wibowo</u> and Alva Budi	Universitas Indonesia	Characteristic Fuel Gasoline Engine of Bioethanol Blending With Varying Gasoline in Indonesia	167	14.30-14.45	
6	Cahyo Setyo Wibowo	<u>Cahyo Setyo Wibowo</u> , Bambang Sugiarto, Ardi Zikra and May Muchar	Universitas Indonesia	The Effect of Octane Number in Varying Gasoline with Blending Bioethanol	172	14.45-15.00	
7	Deodata Leela Andiavitri	<u>Deodata Leela Andiavitri</u> , Syukri Muhammad Nur, Erkata Yandri and Ratna Ariyati	Universitas Darma Persada	Performance of Palm Oil Mill Effluent (POME) as Biodiesel Source Based on Different Ponds	207	15.00-15.15	
8	Sri Djangkung Sumbogo Murti	<u>Sri Djangkung Sumbogo Murti</u> , Joni Prasetyo, Galuh Wirama Murti, Zulaicha Dwi Hastuti and Fusia Mirda Yanti	BPPT	Catalytic hydrogenation of straight vegetable oil using NiMo/ Al ₂ O ₃ catalyst for biodiesel production	239	15.15-15.30	
9	Adam Prihananda Marda	Imansyah Ibnu Hakim, Nandy Putra, <u>Adam Prihananda Marda</u> , Muhammad Alvin Alvaro and Adi Winarta	Universitas Indonesia	Experimental Study on Utilization of Heat Pipe Heat Exchanger for Improving Efficiency of Clean Room Air System in Hospitals	295	15.30-15.45	
10	Mohammad Usman	Imansyah Ibnu Hakim, Nandy Putra and <u>Mohammad Usman</u>	Universitas Indonesia	Analysis of the Use of Thermoelectric Generator and Heat Pipe for Waste Heat Utilization	296	15.45-16.00	

Symposium 3

Date

Time

Room

Session Chair

: Multifunctional and Advanced Materials

: 07 September 2018

: 13.30 - 15.45

: Kharisma Ballroom

: Assoc. Prof. Dr. Anwar Usman

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Angelina	<u>Angelina</u> , Mauhibah Yumna, Abdullah, Rita Arbianti, Tania Surya Utami and Heri Hermansyah	Universitas Indonesia	The Usage of Enzyme in Ultrasound-Assisted Enzymatic Extraction Method and Its Effect on Yield Extract from Keji Beling (<i>Strobilanthes crispus</i> .) Leaves	27	13.30-13.45	
2	Bayu Sari Adji	<u>Bayu Sari Adji</u> , Yuswan Muharam and Sutrasno Kartohardjono	Universitas Indonesia	Simulation of Methanol Synthesis in Packed Bed Reactor for Utilization of CO ₂ from Acid Gas Removal Unit	44	13.45-14.00	
3	Ahmad Tibrizi	Ahmad Tibrizi, M. Fauzy Zikri, Yosia Marsino, Tania Surya Utami, Rita Arbianti and Heri Hermansyah	Universitas Indonesia	Production Bioinsecticide Based on Extraction of <i>Caria papaya</i> using NADES Solvent with Ultrasound-assisted Extraction	49	14.00-14.15	
4	Yusro Fahmi	Sunaryo and <u>Yusro Fahmi</u>	Universitas Indonesia	Hull Design of Solar Powered Recreational Electric Boat for Indonesian Waters	58	14.15-14.30	
5	Abdullah	<u>Abdullah</u> , Mauhibah Yumna, Angelina, Rita Arbianti, Tania Surya Utami, Heri Hermansyah and Sri Ningsih	Universitas Indonesia	Flavonoid isolation and identification of leaves of Tonge in law (<i>Sansevieria trifasciata</i>) and inhibitory activities of xanthine oxidase enzyme	67	14.30-14.45	
6	Yosia Marsino	<u>Yosia Marsino</u> , Ahmad Tibrizi, M. Fauzy Zikri, Tania Surya Utami, Rita Arbianti and Heri Hermansyah	Universitas Indonesia	Production of <i>Plutella xylostella</i> Bioinsecticide for Brasiceae Plants Based on Bromelain Enzyme Extracted from Pineapple Peel and Isothiocyanates Extracted from Broccoli Stem and Radish Peel	112	14.45-15.00	
7	Juli Ayu Ningtyas	Praswasti Pembangun Dyah Kencana Wulan, Juan Octavian Daniel Sidauruk and <u>Juli Ayu Ningtyas</u>	Universitas Indonesia	The Effect of Pyrolysis Temperature and Time of Polypropylene on Quality of Carbon Nanotube with Flame Synthesis Method	195	15.00-15.15	
8	Asep Rachmat	<u>Asep Rachmat</u> , Nasruddin, and Andre Kurniawan	Universitas Indonesia	Multi-Objective Optimization of a Two-Bed Solar Adsorption Chiller Based in Exergy and Economic	176	15.15-15.30	
9	Arif Rahman	<u>Arif Rahman</u> , Muktiningsih Nurjayadi, Rika Wartilah, Eny Kusriani, Eko Adi Prasetyanto, Volkan Degermenci	Universitas Negeri Jakarta, Universitas Indonesia, Universitas Katolik Atmajaya, University of Warwick,, UK	Enhanced Activity of TiO ₂ /Natural Zeolite Composite for Degradation of Methyl Orange under Visible Light Irradiation	299	15.30.15.45	
10	Agung Nugraha	<u>Agung Nugraha</u> , Johny Wahyuadi Soedarsono, Bambang Priyono, Ahmad Maksum	Universitas Indonesia Politeknik Negeri Jakarta	The Effect of Sodium Sulfate (Na ₂ SO ₄) and Sodium Carbonate (Na ₂ CO ₃) Addition on The Reduction-Roasting Process of Titania Iron Sand	304	15.45 - 16.00	

Symposium 4 : Eco Tropical Built Environment
 Date : 07 September 2018
 Time : 13.30 - 15.45
 Room : Arjuna
 Session Chair : Prof. Dr. Adi Surjosatyo

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Ahmad Alfian Farizi	Engkos Achmad Kosasih, <u>Ahmad Alfian Farizi</u> and Rizal Ibnu Wahid	Universitas Indonesia	Aquadest Production System as Steam Turbine Bottom Cycle I: Influence of Pressure of Cooling Water Tank and Pinch Point Temperature Difference of Condenser	47	13.30-13.45	
2	Dendi Nurachman	Sunaryo Sunaryo and <u>Dendi Nurachman</u>	Universitas Indonesia	Propulsion System Analysis For Solar-Powered Electric Water Recreational Boat	57	13.45-14.00	
3	Adri Ramadhani	Sunaryo Sunaryo and <u>Adri Ramadhani</u>	Universitas Indonesia	Electrical System Design For Solar Powered Electrical Recreational Boat for Indonesian waters	59	14.00-14.15	
4	Dalhar Susanto	<u>Dalhar Susanto</u> , Tria Amalia Ningsih and Dini Puti Angelia	Universitas Indonesia	Discovering the Potential of Organic Material in Architecture	107	14.15-14.30	
5	Dalhar Susanto	<u>Dalhar Susanto</u> , Dini Puti Angelia and Kevin Aditya Giovanni Suhanto	Universitas Indonesia	Rumah Tinggi of Korowai Tribe, Papua: Material and Technology Transformation of Traditional House	110	14.30-14.45	
6	Muhamad Taufiq Hidayat	Abdul Wahid, Fariz Adrinasyah Putra, Muhammad Yusuf, and <u>Muhamad Taufiq Hidayat</u>	Universitas Indonesia	Enhanced coal bed methane (ECBM) recovery: optimization of CBM production using different injected gas composition and flow rate for South Sumatra CBM field, Indonesia	103	14.45-15.00	
7	Wolter Juan Arens Purb	<u>Wolter Juan Arens Purba</u> , Afiri Dianti, Jefri Sigalingging and Yulianto Sulisty Nugroho	Universitas Indonesia	Effect of Water Spray on Controlling Temperature of Hot Gas Propagation through Double Skin Facade	219	15.00-15.15	
8	Kuswantoro	<u>Kuswantoro</u> and Yulianto Sulisty Nugroho	Universitas Indonesia	Experimental and Numerical Study of Water Mist Fire Suppression System Effectiveness on Shielded Fire	221	15.15-15.30	
9	Nafila Wajdi	Eva Fathul Karamah and <u>Nafila Wajdi</u>	Universitas Indonesia	Application of Ozonated Water to Maintain the Quality of Chicken Meat: Effect of Exposure Time, Temperature, and Ozone Concentration	271	15.30-15.45	

Symposium 2 : Bioenergy
 Date : 07 September 2018
 Time : 16.00 - 18.15
 Room : Shinta
 Session Chair : Dr. Ir. Gabriel S. Boedi Andari, M.Eng

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Adi Surjosatyo	Muhammad Ajiwibowo, Sirawasith Ruksathamcharoen, Teerapong Chuenyam, <u>Adi Surjosatyo</u> and Kunio Yoshikawa	Tokyo Institute of Technology, Universitas Indonesia	Effect of hydrothermal treatment on grindability and fuel characteristics of empty fruit bunch derived hydrochar	209	16.00-16.15	
2	Nasruddin A. Abdullah	<u>Nasruddin A. Abdullah</u> , Nandy Putra, Jordy Tila, Raldi A. Koestoer and Imansyah Ibnu Hakim	Universitas Indonesia	An experimental study of the vapor temperature in reaction zone for producing liquid of camphor wood in a non-sweeping gas fixed bed pyrolysis reactor	213	16.15-16.30	
3	Afiri Dianti	<u>Afiri Dianti</u> , Nadhira Gilang Ratnasari, Pithier Palamba and Yulianto Sulisty Nugroho	Universitas Indonesia	Effect of Rewetting on Smouldering Combustion of a Tropical Peat	218	16.30-16.45	
4	Faizatul Shimal Mehamod	Noor Fadilah Yusof, <u>Faizatul Shimal Mehamod</u> and Faiz Bukhari Mohd Suah	Universiti Malaysia Terengganu	The Effect of RAFT Polymerization on the Synthesis of Thiamphenicol-Imprinted Polymer to Be Used as a Potential Sensor	279	16.45-17.00	
5	Desti Octavianthy	<u>Desti Octavianthy</u> and Widodo Wahyu Purwanto	Universitas Indonesia	Designing Smart Energy System for Smart City through Municipal Solid Waste to Electricity: Techno-Economic Analysis	228	17.00-17.15	
6	Yosua Adriadi	Purnomo Sidi Priambodo, Taufiq Alif Kurniawan and <u>Yosua Adriadi</u>	Universitas Indonesia	Transformerless SoC-Based Switching Current Control Battery Charger for e-Vehicles	247	17.15-17.30	
7	Yolanda Rudy Johan	Gandjar Kiswanto, Poly Poly and <u>Yolanda Rudy Johan</u>	Universitas Indonesia	Toolpath strategies and management to optimize energy consumption on 3-axis CNC milling machine	293	17.30-17.45	
8	Maulana Azmi	Gandjar Kiswanto, <u>Maulana Azmi</u> and Ignatia Averina	Universitas Indonesia	Optimizing micro milling energy consumption for green manufacturing based on cutting strategies	294	17.45-18.00	
9	Ardiyansyah Yatim	<u>Ardiyansyah Yatim</u> , Ade Luthfi, Raden Chemilo	Universitas Indonesia	Stirling Engine fueled by Biogas: Burner Design	146	18.00-18.15	

Symposium 3

Date

Time

Room

Session Chair

: Multifunctional and Advanced Materials

: 07 September 2018

: 16.00 - 17.15

: Kharisma Ballroom

: Prof. Anne Zulfia

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Rico Lejiu	Reza Khoshbouy, <u>Rico Lejiu</u> , Fumitake Takahashi and Kunio Yoshikawa	Tokyo Institute of Technology	Effect of acid-assisted hydrothermal carbonization (HTC) process on tree branches using nitric acid on cadmium adsorption	215	16.00-16.15	
2	Muhammad Amin	<u>Muhammad Amin</u> , Bambang Ariantara, Nandy Putra, Adjie Fahrizal Sandi and Nasruddin A. Abdullah	Universitas Indonesia	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials	223	16.15-16.30	
3	Nurhalimah Aprianingsih	<u>Nurhalimah Aprianingsih</u> , Nandy Putra and Bambang Ariantara	Universitas Indonesia	Thermal performance of Pulsating Heat Pipe on Electric Motor as Cooling Application	225	16.30-16.45	
4	Nofrijon Sofyan	<u>Nofrijon Sofyan</u> , Akhmad Herman Yuwono, Joseph Wu and Aga Ridhova	Universitas Indonesia, University of Wisconsin-Platteville	Characteristics of nano rosette TiO ₂ hydrothermally grown on glass substrate at different reaction time and acid concentration	289	16.45-17.00	
5	Cindy Sandra	Dewi Tristantini and <u>Cindy Sandra</u>	Universitas Indonesia	Synthesis of Cellulose Acetate from Palm Oil Bunches and Dried Jackfruit Leaves	197	17.00 - 17.15	
6	Muhamad Sahlan	<u>Muhamad Sahlan</u> , Charion Gibreth Hannes, Yanni Sudiyani, Heri Hermansyah and Anondho Wijanarko	Universitas Indonesia	Production and Characterization of Yeast Extract Co-Product Bioethanol from Empty Palm Oil Bunch	240	17.15-17.30	
7	Juan Patrick	<u>Juan Patrick</u> , B. Munir, Johnny Wahyudi M Soedarsono	Universitas Indonesia	The Effect of Addition of Sodium Sulphate (Na ₂ SO ₄) to Nickel Slag Pyrometallurgical Process with Temperature and Additives Ratio as Variables	303	17.30-17.45	

Symposium 3 : Multifunctional and Advanced Materials
 Date : 07 September 2018
 Time : 16.00 - 17.00
 Room : Rama
 Session Chair : Dr. -Ing. Nasruddin, M.Eng.

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Nur Khairunnisya Hanafi	Rahmah Mohamed, Mohamad Azwan Ashari, Mohd Nurazzi Norizan and Nur Khairunnisya Hanafi	Universiti Teknologi MARA	Energy efficiency study of recycled PS/UPE composite building material	15	16.00-16.15	
2	M. Fauzy Zikri	M. Fauzy Zikri, Ahmad Tibrizi, Yosia Marsino, Tania Surya Utami, Rita Arbianti and Heri Hermansyah	Universitas Indonesia	Extraction of Carica papaya with Ultrasound-assisted Using NADES Solvent to Produce Bio-insecticide	147	16.15-16.30	
3	Shobrun Jamil	Mahmud Sudibandriyo and Shobrun Jamil	Universitas Indonesia	Production of Antipollutant Mask with Bamboo Based Carbon Activated Using H3PO4 and K2CO3	244	16.30-16.45	
4	Rudy Heryadi	Rudy Heryadi, Aep Saepul Uyun, Erkata Yandri, Muhammad Nur Syukri and Kamaruddin Abdullah	Universitas Darma Persada	Palm empty fruit bunch gasification simulation in circulating fluidized bed gasifier	220	16.45-17.00	
5	Hedi Eka Maulana	Hedi Eka Maulana, Bambang Priyono, Johnny Wahyuadi Soedarsono, Ahmad Maksum	Universitas Indonesia Politeknik Negeri Jakarta	The Effect of Time Variation on The Results of Increasing Titanomagnetite in Iron Sand at Magnetization Temperature (8000 C) with Na2SO4 Addition as Additive	305	17.00 - 17.15	
6	Devara Clarissa	Devara Clarissa, Bambang Priyono, Johnny Wahyuadi Soedarsono, Ahmad Maksum	Universitas Indonesia Politeknik Negeri Jakarta	Analysis Effect of Temperature on The Results of Titanomagnetite (Fe2TiO4-Fe3O4) Formation in Iron Sand Reduction Using Coal and Sodium Sulphate as an Additive	306	17.15 - 17.30	

Symposium 3 : Multifunctional and Advanced Materials
 Date : 07 September 2018
 Time : 16.00 - 17.15
 Room : Arjuna
 Session Chair : Assoc. Dr. Volkan Degirmenci

No	Presenter	Authors	Afiliation	Title	Paper Code	Time	Signature
1	Nur Safitrah Setiawati	Praswasti Pembangun Dyah Kencana Wulan and <u>Nur Safitrah Setiawati</u>	Universitas Indonesia	The Effect of Mass Ratio of Camphor to Ferrocene as Carbon Source and Reaction Time on the Growth of Carbon Nanotubes	235	16.00-16.15	
2	Ghassan Tsabit Rivai	<u>Ghassan Tsabit Rivai</u> and Praswasti Pembangun Dyah Kencana Wulan	Universitas Indonesia	Synthesis of carbon nanotube using ferrocene as carbon source and catalyst in a vertical structured catalyst reactor	236	16.15-16.30	
3	Wan Amisha Adha bt wan Azmar	<u>Wan Amisha Adha bt wan Azmar</u> , Ri Hanum Yahaya Subban and Tan Winie	Universiti Teknologi MARA	AC Conductivity And Dielectric Properties of PMA/PVAC-TPAI-BMII Polymer Electrolyte And Its Application in Dye-Sensitized Solar Cell	201	16.30-16.45	
4	Hassel Angelyn Sabathini	<u>Hassel Angelyn Sabathini</u> , Larasati Windiani, Dianursanti and Misri Gozan	Universitas Indonesia	Mechanical Physical Properties of Chlorella-PVA based Bioplastic with Ultrasonic Homogenizer	251	16.45-17.00	
5	Citra Noviasari	Dianursanti, Misri Gozan and <u>Citra Noviasari</u>	Universitas Indonesia	The Effect of Glycerol Addition as Plasticizer in Spirulina platensis based Bioplastic	270	17.00-17.15	