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| KS-165 | Daniel Moraru1\* and Tabe Michiharu1 | 1Research Institute of Electronics, Shizuoka University, Japan | Keynote: Single-Electron Tunneling via Dopants in Silicon Nano-Transistors and Nano-Diodes |
| KS-169 | Chao-Min Wu1\* | 1Dept. of Electrical Engineering, National Central University, Taiwan | Keynote: Signal Processing for Speech and Hearing Application  |
| KS-171 | Kyaw Thu1\*, Sourav Mitra2, Bidyut Baran Saha3, Takahiko Miyazaki4\* and Akira Harata4 | 1Green Asia Education Center, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan2Department of Mechanical Engineering, Indian Institute of Technology, India3Mechanical Engineering Department, Kyushu University, Japan4Faculty of Engineering Sciences, Kyushu University, Japan | Keynote: Adsorption Systems from Theory to Practice: Model Development and Assessment of the Isosteric Heat of Adsorption |
| KS-172 | Jin Miyawaki1\* | 1Institute for Materials Chemistry and Engineering, Kyushu University, Japan | Keynote: Toward Activated Carbons with Enhanced Effective Adsorption Amount by Control of Activation Process |

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| KS-182 | M.Z. Sahdan1,2\*, K.M Wibowo1, A. Muslihati1 and N. Rosni1 | 1Microelectronic and Nanotechnology-Shamsuddin Research Centre (MiNT-SRC), Universiti Tun Hussein Onn Malaysia, Batu Pahat Johor, Malaysia2Preston GeoCEM Sdn Bhd, Taman Universiti, Batu Pahat Johor, Malaysia | Keynote: Graphene Sensor for Future Local Economic Development |
| IS-170 | Koji Nakabayashi1\* | 1Institute for Materials Chemistry and Engineering, Kyushu University, Japan | Invited Speaker: Study on the Structural Effects on the Electrochemical Performance of Biomass-derived Hard Carbon as an Anode Material in Sodium Ion Batteries |
| IS-166 | Ratno Nuryadi1\* | 1Center for Materials Technology, Agency for the Assessment and Application of Technology, BPPT, Indonesia | Invited Speaker: Growth of ZnO Nanorods on Microcantilever and Its Gas Response |
| IS-167 | Syed Ahmad Helmi1\* | 1School of Mechanical Engineering Faculty of Engineering Universiti Teknologi Malaysia | Invited Speaker: Strengthening the Implementation of Science, Technology, Engineering and Mathematics (STEM) Education in the 21st Century: A Simple and Systematic Guideline |
| IS-168 | Nafarizal Nayan1\* | 1Microelectronics and Nanotechnology-Shamsuddin Research Centre (MiNT-SRC), Institute for Integrated Engineering,UTHM | Invited Speaker: Surface Treatment using Simple and Low Cost Atmospheric Pressure Plasma Needle Jet (APPNJ) |
| IS-173 | Koji Enoki1\*, Tomio Okawa1, Budi Kristiawan2, Agung Tri Wijayanta2 and Masaharu Ono1 | 1The University of Electro-Communications, Japan, 2Sebelas Maret University, Indonesia | Invited Speaker: The Characteristics of Water Boiling Heat Transfer, Pressure Drop and Flow Regime in Mini-channel |
| IS-178 | Teguh Endah Saraswati1\* | 1Department of Chemistry, Faculty of Mathematics and Natural Sciences, Sebelas Maret University | Invited Speaker: Plasma-activated Photocatalyst TiO2/Carbon for Wastewater Treatment Application |

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| CE-001 | Salisu Nuhu1\* | 1Hussaini Adamu Federal Polytechnic Kazaure, Jigawa state, Nigeria | Optimization of Quicklime Production from Eggshell using Response Surface Methodology |
| CE-014 | Anatta Budiman1\*, Muhammad Vitrawandika1, Queenta Putri1 and Adrian Nur1 | 1Department of Chemical Engineering, Universitas Sebelas Maret,Indonesia | Synthesis of Nano-g-Carbon Nitride for Photodegradation of Organic Waste |
| CE-027 | Dwi Setyawardhani1\*, Hary Sulistyo2, Wahyudi Sediawan2 and Mohammad Fahrurrozi2 | 1Department of Chemical Engineering, Universitas Sebelas Maret,Indonesia,2Department of Chemical Engineering, Universitas Gadjah Mada,Indonesia | Kinetics and Equilibrium Studies of Stearic Acid Adsorption in Urea Complexation  |
| CE-028 | Adrian Nur1\*, Arif Jumari1, Anatta Wahyu Budiman1, Ossama Ruzicka1, Maulana Ahmad Fajri1, Nazriati Nazriati2 and Fauziatul Fajaroh2 | 1Department of Chemical Engineering, Sebelas Maret University,Indonesia,2Chemistry Department, Faculty of Mathematics and Science, State University of Malang,Indonesia | Electrosynthesis of Cobalt – hydroxyapatite Particle |
| CE-034 | Febrianto Adi Nugroho1\*, Putu Teta Prihartini Aryanti1, Hasniyah Marwatil Muna1 and Siti Nurhayati1 | 1Department of Chemical Engineering, Universitas jenderal Achmad Yani,Indonesia | A Combined Electrocoagulation and Mixing Process for Contaminated River Water Treatment |
| CE-042 | Anisa Raditya Nurohmah1, Ike Puji Lestari1, Khikmah Nur Rikhy Stulasti1, Endah Retno Dyartanti1, Luthfi Mufidatul Hasanah1, Soraya Ulfa Muzayanha1 and Agus Purwanto1\* | 1Department of Chemical Engineering, Universitas Sebelas Maret,Indonesia | Continuous Adsorption of Cr and Pb from Textile Industry Waste Water with Banana Peel-Derived Activated Carbon |
| CE-044 | Arina Wahyu Himawati1\*, Shofirul Sholikhatun Nisa1 and Hafni Amalia Juniarti1 | 1Department of Chemical Engineering, Universitas Sebelas Maret,Indonesia | Bio-Composite Fire Resistant From Banana Leaf Waste And Coconut Fiber Environmental Friendly (KOPISERPA) |
| CE-049 | Yusuf Wibisono1\*, Yogo Migunani2, Ni'Matul Izza1 and Shinta Rosalia Dewi1 | 1Bioprocess Engineering, Universitas Brawijaya,Malang,Indonesia,2Agricultural Engineering, Universitas Brawijaya, Malang,Indonesia | On the Development of Mini Membrane Module (mMm) for Mass Transport Assessment of Mixed Matrix Membrane |
| CE-050 | Yusuf Wibisono1\*, Rut Yuliani2, Dini Ardian2, Nadinda Kamilia1, Anang Lastriyanto2 and Sandra Malin Sutan2 | 1Bioprocess Engineering, Universitas Brawijaya,Malang,Indonesia,2Agricultural Engineering, Universitas Brawijaya, Malang,Indonesia | Hybridization of Nitrogen Compounds and Hydroxyapatite: A Slowly Released Fertilizer for Water Sustainability |
| CE-054 | Lidya Simanjuntak1, Tri Edhi Budhi Soesilo Soesilo1\* and Herdis Herdiansyah1 | 1Universitas indonesia,Indonesia | Analysis of Energy Consumption for Sustainable Surfactant Plants |

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| CE-057 | Ari Diana Susanti1\*, Wahyudi Budi Sediawan2, Sang Kompiang Wirawan2 and Budhijanto Budhijanto2 | 1Department of Chemical Engineering, Universitas Sebelas Maret,Indonesia,2Department of Chemical Engineering, Universitas Gadjah Mada,Indonesia | Adsorption-Desorption Recoveries as Column Performance Criteria in Isolation of Oryzanol from Rice Bran Oil  |
| CE-061 | Woro Partini Maryunani1\*, Evi Puspitasari1, Muhammad Amin1 and Dwi Sat Agus Yuwana1 | 1Department of Civil Engineering, Universitas Tidar,Indonesia | The Study of Temperature Changes on Asphalt Concrete Wearing Course (AC-WC) Mixing Process on Marshall Characteristics |
| CE-065 | Heny Dewajani1\*, Achmad Chumaidi1, Rokhmatul Khasanah1 and Tabita Dya Agustina1 | 1Department of Chemical Engineering, The State Polytechnic of Malang,Indonesia | Synthesis Ester Gum through Esterification Reaction of Rosin and Gliserol using Zeolite Modified by Nickel as Catalyst |
| CE-083 | Arfiana1\*, Era Restu Finalis1, Fausiah1, Ilhamsyah Noor1, Erbert Ferdy Destian1, Dorit Bayu Islam Nuswantoro1, Sd Sumbogo Murti1, Hens Saputra1 and Reiji Noda2 | 1Center for Technology Energy Resources and Chemical Industry, BPPT,Indonesia, 2Chemical and Environment Engineering, Graduate Scholl of Engineering, Gunma University, Japan | Utilization of Empty Fruit Bunch (EFB) Char in the Production of NPK Slow Release Fertilizer (SRF) |

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| CE-096 | Fusia Mirda Yanti1\*,1 Zulaicha Dwi Hastuti1, Sd. Sumbogo Murti1, Novio Valentino1,Atti Sholihah and Asmi Rima Juwita1 | 1The Agency for Assesment and Application Technology, Indonesia | Utilization Palm Oil Mill Effluent for Biogas using Continous-Stirred-Tank-Reactor : Production and Biogas Cleaning  |
| CE-097 | Ir Sutomo1\* | 1Industrial Technology Department, Atmajaya University, Jakarta, Indonesia | The Influence of Wave Frequency of Solenoid Magnetic Field on CaCO3 Scale Formation in Piping System |
| CE-099 | Ir Sutomo1\* | 1Industrial Technology Department, Atmajaya University, Jakarta, Indonesia | The Influence of Solenoid Magnetic Field on CaCO3 Scale Formation in The Presence Various Temperature Solution in Piping System  |
| CE-100 | Ir Sutomo1\* | 1Industrial Technology Department, Atmajaya University, Jakarta, Indonesia | The Influence of Solution Consentration of Solenoid Magnetic Field on CaCO3 Scale Formation in Piping System |
| CE-107 | Fadilah1\*, Sperisa Distantina1 and Ari Diana Susanti1 | 1Universitas Sebelas Maret, Indonesia | Moisture Sorption Isotherm of Edible Film Made from Carrageenan and Carboxy Methyl Glucomannan  |

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| CE-116 | Joni Prasetyo1\*, Nurdiah Rahmawati1, Galuh Murti1, Fusia Mirdayanti1, Asmi Juwita1, Astri Pertiwi1, Tyas Puspitarini1, Novio Valentino1, Herman Hidayat1, Sumbogo Murti1 and Reiji Noda2 | 1BPPT, Indonesia, 2Gunma Univesity, Japan | Optimization on Low Cost Methanol Production Utilizes Syngas of Biomass: Simulation and Validation |
| CE-123 | Anatta Budiman1\*, Ari Diana Susanti1, Faiz Mubarok1 and Rita Indah Rahmawati1 | 1Universitas Sebelas Maret, Indonesia | Tofu Liquid-waste Photodegradation using g-C3N4 |
| CE-125 | Endang Kwartiningsih1\*, Wahyudi Budi Sediawan1, Muslikhin Hidayat1 and Ahmad Tawfiequrrahman Yuliansyah1 | 1Universitas Sebelas Maret, Indonesia | Design of Supercritical Fluid Extractor using Dry Ice as A Supercritical Solvent |
| CE-129 | Sd.Sumbogo Murti1\* and Fusia Mirda Yanti1 | 1Center for Energy Resources and Chemical Industry, Agency for The Assessment and Application of Technology, PUSPIPTEK, Tangerang Selatan, Indonesia | Investigating the Nature of Fuel Mixtures of Petroleum Diesel and Biodiesel  |
| CE-133 | Desi Luvita1\*, Mohammad Kholid Ridwan1 and Rachmawan Budiarto1 | 1Department of Nuclear Engineering and Engineering Physics, Universitas Gadjah Mada, Indonesia | A Scenario of BAPV and BIPV System for Long-term Projection Energy Demand in Yogyakarta |
| CE-135 | Mujtahid Kaavessina1\*, Muftikhatul Mu’awanah1 and Shofirul Sholikhatun Nisa1 | 1Chemical Engineering Department, Universitas Sebelas Maret, Surakarta 57126, Indonesia | The Effects of Molecular Weight of Poly Lactic Acid Matrix on Release Time of Smart Urea Fertilizer (SUF) |
| CE-145 | Ratna Dewi Kusumaningtyas1\*, Muhammad Hafizt Akbar1, Haniif Prasetiawan1 and Dwi Widjanarko1 | 1Chemical Engineering Department, Faculty of Engineering, Universitas Negeri Semarang Sekaran, Semarang, Indonesia,2Mechanical Engineering Department, Faculty of Engineering, Universitas Negeri Semarang Sekaran, Semarang, Indonesia | Kinetic Study of Esterification Reaction of Kapok Randu (Ceiba pentandra) Seed Oil with Methanol in the Presence of Sulfuric Acid Catalyst |
| CE-147 | Aufara Mahayum1, Teguh Endah Saraswati1\*, Annisa Dinan Ghaisani1, Candra Purnawan1, Sentot Budi Rahardjo1 and Kusumandari Kusumandari1 | 1Universitas Sebelas Maret, Indonesia | Effect of Ozone Treatment on Photocatalytic Degradation of Methylene Blue using TiO2/Activated Carbon |
| CE-148 | Annisa Dinan Ghaisani1, Kusumandari Kusumandari1, Teguh Endah Saraswati1\* and Aufara Mahayum1 | 1Universitas Sebelas Maret, Indonesia | Degradation of Textile Industry Wastewater of Dye using Dielectric Barrier Discharge (DBD) Plasma  |

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| CE-163 | Retno A. S. Lestari1\*, Enny P Nurlaili2 and Priyono Kusumo1 | 1Chemical Engineering Department, 17 Agustus 1945 University, Semarang, Indonesia, 2Food Technology Department, 17 Agustus 1945 University, Semarang, Indonesia | The Effect of Carbon Dioxide Concentration and Dimension of Photobioreactor on the Growth of Microalgae Nannochloropsis |
| CE-164 | Inayati Inayati1\* | 1Chemical Engineering Department, Engineering Faculty, Universitas Sebelas Maret, Surakarta, Indonesia | Effect of Glycerol Concentration on Mechanical Characteristics of Biodegradable Plastic from Rice Straw Cellulose |
| CE-181 | Widi Astuti1\*, Fika Rofiek Mufakhir1, Erik Prasetyo1, Slamet Sumardi1, Aulia Pertiwi Tri Yuda1, Fajar Nurjaman1, Yayat Iman Supriyatna1 and Anton Sapto Handoko1 | 1Research Unit for Mineral Processing, Indonesian Institute of Sciences (LIPI), Lampung, Indonesia | Reductive-Atmospheric Leaching of Manganese from Pyrolusite Ore using Various Reducing Agents |

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| ME-002 | Umashankar Lath1\* | 1VIT University, India | Development of a Data Acquisition System for Optimizing the Vehicle Performance and Validation of Vehicle Systems |
| ME-004 | Meghasham Khandige1\* and Prathap C1 | 1Indian Institute of Space Science and Technology, Trivandrum, India | Measurement of Species Profile across a Planar Flame using PLIF |
| ME-005 | Aji Nugroho1, Nugroho Agung Pambudi1\*, Budi Harjanto1, Agung Febryanto1, Ridho Alfan Firdaus1, Nova Dany Setyawan1 and Mochamad Syamsiro2 | 1Department of Mechanical Engineering Education, Faculty of Teacher Training and Education, Sebelas Maret University,Indonesia,2Department of Mechanical Engineering, Faculty of Engineering, Janabadra University, Indonesia | Production of Solid Fuel by Hydrothermal Treatment using Terminalia Catappa Peels Waste as Renewable Energy Sources |
| ME-009 | Indri Yaningsih1, Agung Tri Wijayanta2, Takahiko Miyazaki1\* and Shigeru Koyama3 | 1Department of Energy and Environmental Engineering, Kyushu University, Indonesia, 2Department of Mechanical Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia,3Thermal Science and Engineering Division, I2CNER, Kyushu University, Japan | Desiccant Dehumidification System for Low Desorption Temperature |
| ME-011 | Rany Puspita Dewi1\* | 1Mechanical Engineering Department, Universitas Tidar, Magelang, Indonesia  | Utilization of Sawdust and Coconut Shell as Raw Materials in Briquettes Production |

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| ME-013 | Yusuf Dewantoro Herlambang1\*, Jin-Cherng Shyu2, Shun-Ching Lee2, Anis Roihatin1 and Kurnianingsih1 | 1Department of Mechanical Engineering, Energy Conversion Engineering Program, Politeknik Negeri Semarang, Indonesia, 2Department of Mechanical Engineering, National Kaohsiung University of Science and Technology, Taiwan | A Numerical Modeling of Air-breathing Membraneless Microfluidic Fuel Cells Basis on Various Number of Fuel Concentration |
| ME-015 | Wahyu Raharjo1,2\*, Rudy Soenoko3, Anindito Purnowidodo3 and Agus Choiron3 | 1Mechanical Engineering Department, Universitas Sebelas Maret Surakarta, Indonesia,2Doctoral Student of Mechanical Engineering, Universitas Brawijaya Malang, Indonesia,3Mechanical Engineering Department, Universitas Brawijaya Malang, Indonesia | Influence of Several Chemical Treatment on the Interfacial Shear Strength of Zalacca Fibres and Low-Density Polyethylene Matrix |
| ME-018 | [Satrio Tri Jayanto1\*, Mahendrata Chendra2, and Agung Tri Wijayanta1](https://www.researchgate.net/profile/Satrio_Jayanto) | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2PT PERTAMINA Asset 4 Field Cepu, Indonesia | Estimating Corrosion Rate and Remaining Life of Pressure Vessel H2S Absorber |
| ME-019 | Nani Mulyaningsih1\* | 1Departement of Mechanical Engineering, Universitas Tidar, Indonesia | Influence of Organic Corrosion Inhibitor on Corrosion Behavior Of St-37 Carbon Steel in NaCl Medium |

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| ME-024 | Unggul Wasiwitono1\*, Arif Wahjudi1, Ari Kurniawan Saputra1 and I Nyoman Sutantra1 | 1Mechanical Engineering Department, ITS, Indonesia | Dynamics Analysis of Gyroscopic Inverted Pendulum |
| ME-025 | Dini Oktavitasari1\*,Dominicus Danardono2 and Prafitri Kurniawan2 | 1Graduate School of Mechanical Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia,2Mechanical Engineering Department, Faculty of Engineering, Sebelas Maret University, Indonesia | Study of The Wind Farm Arrangements and Wake Characteristic using Numerical Simulation for Crossflow Wind Turbine |
| ME-032 | Sri Hastuti1\*, Catur Pramono1 and Paryono2 | 1Mechanical Engineering Department, Universitas Tidar, Magelang, Indonesia, 2Mechanical Engineering Department, Politeknik Negeri Semarang, Semarang, Indonesia. | The Waste Utilization of Arenga Pinnata Fiber for Reinforce Composite Material to Panelling House |
| ME-037 | Dody Ariawan Mochyi Soejitno1\*, Muhammad Saifuddin Salim2, Razaina Mat Taib2 and Zainal Arifin Mohd Ishak2 | 1Mechanical Engineering Department, Engineering Faculty, Universitas Sebelas Maret, Indonesia,2School of Material and Mineral Resources, Engineering Faculty, Universiti Sains Malaysia | Nonwoven Alkali Treated Kenaf Fiber Mat - Unsaturated Polyester Composite under Hygrothemal Aging |

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| ME-045 | Hanung Nugroho Jati1\*, Muhammad Zuhdi Khusaini1, Heru Sutanto1 and Zainal Arifin1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Application of Direct Deposition Method for Dye Sensitized Solar Cell (DSSC) Manufacturing Process |
| ME-046 | Ndaru Adyono1\*, Eko Surojo1 and Triyono1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Hard Anodizing of 6061-T0 Aluminium Alloy in Sulfuric Acid Bath at Low Temperature and its Micro-Hardness Properties |
| ME-051 | Ridwan Ridwan1\*, Singgih Dwi Prasetyo1, Arvian Candra Kusuma1, Rizqi Abdul Rahman1 and Suyitno Suyitno1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Recent Progress of Biogas Produced from the Waste of Natural Indigo Dyes for Electric Generation |
| ME-052 | Muhamad Faizal Asfar1\*, Dody Ariawan1 and Joko Triyono1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Effect of Immersion on the Flexural Properties of Zalacca Midrib Fiber/HDPE by Compression Molding |

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| ME-053 | Sigit Iswahyudi1,2\*, Sutrisno1 and Prajitno1 | 1Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Indonesia,2Department of Mechanical Engineering, Faculty of Engineering, Universitas Tidar, Indonesia | Dimensional Analysis of Horizontal Axis Wind Turbine Scaling Design  |
| ME-063 | Agung Premono1\* and Kadek Muda Putra Adyaksa1 | 1Department of Mechanical Engineering, State University of Jakarta, Indonesia | Effect of Fiber Orientation Angle and Number of Layers on the Mechanical Properties of a Composite Material: A Numerical Study |
| ME-066 | Gundhi Asmoro1\*, Eko Surojo2, Dody Ariawan2, Nurul Muhayat2 and Wijang Wisnu Raharjo2 | 1Graduate School of Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia, 2Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Effect of ZnS on Frictional Behaviour of Composite Friction Brake |
| ME-072 | Sakuri Sakuri1,2\*, Dody Ariawan1 and Eko Surojo1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2Departement of Mechanical Engineering,STT Wiworotomo Purwokerto, Indonesia | The Influence of Alkali and Fumigation Treatment on Agave Cantula ROX B Fiber against Mechanical Properties |

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| ME-073 | Ari Prasetyo1, Muhammad Sidiq1, D. D. D. Prija Tjahjana1 and Syamsul Hadi1\* | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Effect of Twist on Performance of Savonius Water Turbine in Water Pipe |
| ME-074 | Ahmad Imam Rifai1, Muhammad Faisal Hasan2, Budi Kristiawan1\*, Agung Tri Wijayanta1, Takahiko Miyazaki2,3 and Kyaw Thu2,3,4 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan,3International Institute for Carbon-Neutral Energy Research, Kyushu University, Motooka, Nishi Ward,Fukuoka, Japan, 4Green Asia Education Center, Kyushu University, 6-1 Kasuga-koen, Kasuga, Fukuoka, Japan | Experimental Studi of Heat Transfer Enhancement and Pressure Drop using TiO2/DW nanofluid Inside Counter Flow Double Tube Heat Exchanger |
| ME-075 | Yahya Abdul Matien1, Triyono1\* and Nurul Muhayat1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Effect of water Depth on the Microstructure and Tensile Strength of 5 G Position Underwater Welding Low Carbon Steel |
| ME-077 | [Widya Wijayanti1\*](http://www.ub.ac.id/) | 1Department of Mechanical Engineering, Brawijaya University, Indonesia | An effect of CO2 on The Characteristic of Gas Hydrate in A Vessel Tank |
| ME-078 | Widya Wijayanti1\* and Mega Nur Sasongko1 | 1Department of Mechanical Engineering, Brawijaya University, Indonesia | A Thermolysis of Macroalgae Gracilaria Affected by Temperature Pyrolysis |

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| ME-080 | Budi Santoso1\* and Dominicus Danardono Dwi Prija Tjahjana1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | A Cross Flow Turbine Turned with Non-Uniform Flow Velocity on The Cooling Tower |
| ME-081 | Femiana Gapsari1\* and Andita Ganda2 | 1Mechanical Engineering Department. Faculty of Engineering, Brawijaya University, Indonesia, 2Mechanical Engineering Department, Faculty of Engineering, State University of Surabaya, Indonesia | The Effect of Homogenizing Process on The Corrosion Rate of Zn Sacrificial Anodes |
| ME-084 | Suwarsono1\*, Budiono1, Ario Sunar Baskoro2 and Gandjar Kiswanto2 | 1University of Muhammadiyah Malang, Indonesia, 2University of Indonesia, Indonesia | Mechanical Properties of Friction Stir Lap Welding (FSLW) on Dissimilar Aluminum Sheet A1100 and A1050. |
| ME-085 | Suryana Adistiya1\* and Agung Tri Wijayanta1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Effect of Clearance Gap on The Hydraulic Efficiency of The Centrifugal Pump |
| ME-086 | Didik Djoko Susilo1\*, Achmad Widodo2, Toni Prahasto2 and Muhammad Nizam3 | 1Mehanical Engineering Department of Sebelas Maret University, Indonesia,2Mehanical Engineering Department of Diponegoro University, Indonesia,3Electrical Engineering Department of Sebelas Maret University, Indonesia | Prognostics of the Motor Coupling Based on the LS-SVM Regression using Features in Time Domain |

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| ME-088 | Mohammad Tauviqirrahman1\*, Muchammad Muchammad2, Fuad Hilmy1 and J Jamari1 | 1Department of Mechanical Engineering, University of Diponegoro, Indonesia,2Laboratory for Surface Technology and Tribology, Faculty of Engineering Technology, University of Twente, Netherland | Hydrodynamic Performance of Square Shape Textured Parallel Sliding Contacts Considering Fluid-Solid Interfacial Slip |
| ME-089 | Heru Sukanto1\* and Triyono1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Study of Coating Materials Effect on the Recycled Polypropylene-Rubber Composite under Weather Exposure |
| ME-092 | Edy Yulianto1\*, S. Chatterjee1 and Vygantas Mizeikis1 | 1Research Institute of Electronics, Shizuoka University, 3-5-1 Johoku Hamamatsu 432-8011, Japan | Characterization of Latent 3d Laser Exposure Patterns in Photoresist using Photoluminescence Quenching |
| ME-094 | Dimas Muhammad Natsir1\*, Triyono2 and Dominicus Danardono Dwi Prija Tjahjana2 | 1Graduate School of Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia, 2Mechanical Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Failure Analysis of Support Link Leading Edge AA7075 |
| ME-101 | Sakuri Sakuri1,2\*, Dody Ariawan1\* and Eko Surojo1\* | 1Departement of Mechanical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia, 2Departement of Mechanical Engineering,STT Wiworotomo, Purwokerto, Indonesia | Determining The Mechancal Properties of Microcrystalline Cellulose Filled Unsaturated Polyester Blend Composite with Various Treatment |
| ME-103 | Eflita Yohana1\*, Ade Eva Diana1, Andre Fiky Maulana1, Mohammad Tauviqirrahman1 and Kwang Choi2 | 1Department of Mechanical Engineering, University of Diponegoro, Indonesia, 2Pukyong National University, South Korea | Influence of Inlet Velocity on The Particle Separation of Three-Dimensional New Cyclone Separator using CFD Method |
| ME-105 | S Susilowati1,F Hilmy2,M Muchammad2,J Jamari2\* and M Tauviqirrahman2\* | 1Universitas Pembangunan Nasional "Veteran" East Java, Indonesia, 2Diponegoro University, Indonesia | Effect of Eccentricity Ratio on the Hydrodynamic Performance of Journal Bearing Considering Cavitation |
| ME-106 | Arozi Moh1, Farika T Putri1, Mochammad Ariyanto1, Wahyu Caesarendra1, Munadi1 - and Joga D. Setiawan1\* | 1Universitas Dipenogoro, Indonesia | Electromyography (EMG) Signal Recognition Using Combined Discrete Wavelet Transform Based Support Vector Machines (SVM) |
| ME-108 | Triyono1, Sunarto Kaleg2\* and Ndaru Adyono1 | 1Department of Mechanical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia, 2Research Center for Electrical Power and Mechatronics, Indonesian Institute of Sciences, Indonesia | The Failure Analysis of Bike Brake Lever: The Observation on Crack Propagation and The Stress Analysis |
| ME-109 | Silfia Mona Aryani 1\* and Ari Diana Susanti2 | 1Interior Design Department, Universitas Sebelas Maret, Indonesia, 2Chemistry Engineering Department, Universitas Sebelas Maret, Indonesia | CFD Simulation on Courtyard Dimension that Optimize the Wind Movement inside A Transformed House |
| ME-114 | Singgih Dwi Prasetyo1, Catur Harsito1, Sutanto Sutanto2 and Suyitno Suyitno1\* | 1Mechanical Engineering Department, Universitas Sebelas Maret, Indonesia, 2Mathematic Department, Universitas Sebelas Maret, Indonesia | Energy Consumption of Spray Dryer Machine for Producing Red Natural Powder Dye and Its Stability  |
| ME-115 | Eflita Yohana1\*, Mohammad Tauviqirrahman1, Ade Eva Diana1, Andre Fiky Maulana1\* and Indah Hartati1 | 1Diponegoro University, Indonesia | Investigating the Effect of Inlet Velocity on Particle Separation Efficiency in Cyclone Separator using CFD |
| ME-117 | Ali Alhamidi1\*, Reza Komarulloh1, Hadi Ariefiyanto1 and Andinnie Juniarsih1 | 1Universitas Sultan Ageng Tirtayasa, Indonesia | Influence of Accumulative Roll bonding (ARB) Processing and Post-ARB Aging on Microstructure and Mechanical Properties of AA 6061 |
| ME-120 | Murnanda Zaesy Saputra1\*, Dwi Aries Himawanto1, Dominicus Danardono Dwi Prija Tjahjana1 and Zuhdy Ilham Utama1\* | 1Universitas Sebelas Maret, Indonesia | Combustion Characteristics of Albizia Chinensis and Tectona Grandis (Teak) Sawdust and a mixture of both using thermogravimetry analysis |
| ME-121 | Zuhdy Ilham Utama1\*, Dwi Aries Himawanto1, Dominicus Danardono Dwi Prija Tjahjana1 and Murnanda Zaesy Saputra1 | 1Universitas Sebelas , Indonesia | Slow Pyrolysis of Tectona Grandis and Albizia Chinensis Sawdust with Thermogravimetry Analysis |
| ME-124 | Dio Afinanda Makarim1\*, Dominicus Danardono Dwi Prija Tjahjana1\* and Sukmaji Indro Cahyono1 | 1University of Sebelas Maret, Indonesia | Performance Investigation of the Crossflow Water Turbine by Using CFD |
| ME-126 | Abdullah Shalih1\*, Purwadi Joko Widodo1, Dwi Aries Himawanto1 and Riski Kurniawan1 | 1Universitas Sebelas Maret, Indonesia | The Angle of Blade Effect on The Mechanical Power Produced in Horizontal Flow Propeller Pico-Hydro Turbine |
| ME-128 | Prima Febriyana1\*, Gunawan Dwi Haryadi1, Achmad Widodo1, Didik Djoko Susilo2 and Seon Jin Kim3 | 1Diponegoro University, Indonesia, 2Sebelas Maret University, Indonesia,3Pukyong University, South Korea | Evaluation for Detecting and Monitoring of Offshore Pipeline Damage Based on Risk Based Inspection Method |
| ME-131 | Alangghya Susatya Adigama1\*, Gunawan Dwi Haryadi1, Sulistyo1, Didik Djoko Susilo2 and Seon Jin Kim3 | 1Mechanical Engineering Department, Diponegoro University, Indonesia, 2Mechanical Engineering Department, Sebelas Maret University, Indonesia, 3Pukyong National University, Indonesia | Reliability Analysis and Critical Part Lifetime Prediction of Heavy Duty Articulated Dump Truck on Coal Mining Industry Using Risk Based Inspection Method  |
| ME-138 | Sukmaji Cahyono1\* and Budi Santoso1\* | 1Sebelas Maret University, Indonesia | A Computational Fluid Dynamic Modeling Analysis of Air Curtain Performance to Save Cooling Load in Light Rapid Transit  |

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| ME-146 | Sukmaji Cahyono1\*, Miftahul Anwar1, Dihardjo Kuncoro1, Hapid Abdul2 and Kalek Sunarto2 | 1Sebelas Maret University, Indonesia, 2Power Electric and Mechatronic Research Center LIPI, Indonesia | Static Load Simulation Analysis on a Chassis of Electric Minibus Integrated with the Frame of Removable Battery Pack by Using FEA |
| ME-158 | Yohanes Waloyo1\*, Triyono Triyono1 and Dominicus Ddp Tjahjana1 | 1Dept. of Mechanical Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | Root Cause of Failure End Mill Cutting Tool |
| ME-159 | Andi Taufan1\*, Umi Hanifah1 and Satya Andika Putra1 | 1Development Center for Appropriate Technology, Jl. K. S. Tubun No. 5 Subang, West Java, Indonesia | Performance Evaluation of a Single-Screw Extruder for Non-Wheat Noodles |
| ME-175 | Satya Andika Putra1\*, Umi Hanifah1, and Mirwan Ardiansyah Karim1 | 1Development Center for Appropriate Technology, Indonesian Institute of Sciences | Theoretical Study of Fluidization and Heat Transferon Fluidized Bed Coffee Roaster |
| ME-176 | Harini Sosiati1\*, Rizki Anugrah1, Yuda Aria Binangun1, Arief Rahmatullah1, Cahyo Budiayantoro1 | 1Mechanical Engineering Department, Faculty of Engineering, Universitas Muhammadiyah Yogyakarta, Yogyakarta 55183, Indonesia  | The Influence of Alkali Treatment Duration on Tensile Properties of Kenaf Reinforced Polypropylene Composites  |
| ME-179 | Yusmaniar1\*, Arie Restu Nurhidayani1, Fera Kurniadewi1 | 1Departement of Chemistry, Faculty of Match and Science Universitas Negeri Jakarta, Kampus A Rawamangun Muka Jakarta Timur 13220, Indonesia | Synthesis of Tannin Fenol Formaldehyde (TPF) Copolymer from Ethyl Acetate Extract of Green Tea Leaf (Camellia Sinensis) as Bioadhesive Wood |
| ME-180 | Yusmaniar1, Maulidya1, Wisnu Ari2, Harini Sosiati3 | 1Departement of Chemistry, Faculty of Match and Science Universitas Negeri Jakarta, Kampus A Rawamangun Muka Jakarta Timur 13220, Indonesia, 2Centre for Science and Technology of Advanced Materials, National Nuclear Energy Agency, Kawasan Puspitek Serpong, Tangerang Selatan, Banten, Indonesia, 3Departement of Mechanical Engineering, Faculty of Engineering Universitas Muhammadiyah Yogyakarta, Tamantirto, Kasihan Bantul Yogyakarta | Effects of Adding TEOS for UPR/Core-Shell Fe3O4@SiO2 Composites Nanoparticle from Iron Sand as Microwave Absorption Materials  |

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| EE-008 | Risky Via Feriyanti1\*, Risky Via Yuliantari2 and Dwi Novianto2 | 1Universitas Gadjah Mada, Indonesia, 2Universitas Tidar, Indonesia | Temperature Measurement Analysis On Laboratory Monitoring System |
| EE-010 | Chico Hermanu Brillianto Apribowo1\*, Rio Yuan Pallafine1, Feri Adriyanto1, Meiyanto Eko Sulistyo1, Irwan Iftadi1 and Subuh Pramono1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Design of Variable Reactive Power Compensator to Improve the Power Factor Correction of a Static Load |
| EE-012 | Ramadoni Syahputra1\* and Indah Soesanti2 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Muhammadiyah Yogyakarta, Indonesia, 2Department of Electrical Engineering and Information Technology, Faculty of Engineering, Universitas Gadjah Mada, Indonesia | Efficiency Improvement of Wind Power System Using Maximum Power Point Tracking Based on Modified Perturb and Observe Method |
| EE-016 | Risky Via Yuliantari1\* and Dwi Novianto1 | 1Department of Electrical Engineering, Universitas Tidar, Indonesia | Feature Extraction of the Indonesian Nasal Phoneme using Multi Layer Perceptron |
| EE-021 | Feri Adriyanto1\* and Mohd. Zainizan Sahdan2 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2Universiti Tun Hussein Onn Malaysia | Study of Electrical and Morphological Properties of Flexible ZnO Nanostructure TFTs under Tensile Strain Process |

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| EE-022 | Henry Probo Santoso1, Royani Aulia Ihsanti1, Kevin Dwiyanto Saputra1 and Feri Adriyanto1\* | 1Control and Instrumentation Laboratory, Department of Electrical Engineering, Universitas Sebelas Maret | Development of Prototype Low-Cost and High Efficiency Solar, Piezoelectric and Wind Hybrid Energy Harvesting Systems |
| EE-023 | Iis Hamsir Ayub Wahab1, Rintania Elliyati Nuryaningsih1\* and Achmad Pradjudin Sardju1 | 1Robotics and Intelligent System Engineering Research Group, Electrical Engineering Study Program, Khairun University, Indonesia | Mathematical Modelling of Sensing-ROV Motion |
| EE-026 | Dwi Novianto1\*, Ika Setyowati1 and Erry Purnomo1 | 1Department of Electrical Engineering, Universitas Tidar, Indonesia | Design and Calibration of Soil Moisture Sensor for Grains using Arduino Nano as a Controller |
| EE-029 | Chico Hermanu Brillianto Apribowo1\*, Budi Santoso2, Muhammad Hamka Ibrahim1 and Fx Rian Wicaksono1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2Department of Mechanical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Design of 1 MWp Floating Solar Photovoltaic (FSPV) Power Plant in Indonesia  |

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| EE-031 | Chico Hermanu Brillianto Apribowo1\*, Fasda Ilhaq Robbani1 and Muhammad Nizam1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Optimal Placement of Unified Power Flow Controllers for Losses Reduction and Improve Voltage Stability Based on Sensitivity Analysis in IEEE 14 Bus and 500 kV Java-Bali Electrical Power System |
| EE-033 | Chico Hermanu Brillianto Apribowo1\*, Aulia Ardan S1, Augustinus Sujono1, Muhammad Nizam1 and Agung Nur Probohudono2 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia,2Department of Economics, Faculty of Economics and Business, Universitas Sebelas Maret, Indonesia | Study on Energy Efficient Public Street Lighting in Surakarta City Indonesia |
| EE-035 | Yasmine Afifah1\*, Chico Hermanu Brilianto Apribowo1, Rizal Abdulrozaq Rosadi1 and Mohammad Raihan Hafiz1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | The Smart Monitoring and Automation Control System for Fish Aquarium Based On Internet of Things Technology |
| EE-036 | Johan Try Affandy1, Syahrul Imam Romadhona1, Krisna Hakim1 and Feri Adriyanto1\* | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | A Low-Cost Internet of Things-Based Systems for Landslide Monitoring And Prediction |

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| EE-038 | Afif Yuhendrasmiko1, Rilo Pambudi Aditya Wardani1, Muhammad Renaldy Darmawan1 and Feri Adriyanto1\* | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | A Prototype Iot-Based Sensor Network for Meteorological Information Display Systems  |
| EE-039 | Ika Setyowati1\*, Dwi Novianto1and Erry Purnomo1 | 1Department of Electrical Engineering, Universitas Tidar, Indonesia, Indonesia | Implementation Wireless Sensor Network as Base of Smart Agriculture, Review Paper  |
| EE-040 | [Hari Maghfiroh1\* and Chico Hermanu Brillianto Apribowo1](http://www.keretalistrik.com/) | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Optimal Energy Control of Railway Traction Motor: Comparative Study |
| EE-041 | Dwiki Dimas Shidiq1\*, Aris Maulana Fauzan1, Azis Ubaidilah1 and Chico Hermanu Brillianto Apribowo1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | METRIK (MEJA LISTRIK): An Advanced House Furniture as the Replacement of Electric Socket |
| EE-043 | Muhammad Akmal1\*, Yuana Ayub Sunarya1 and Bima Damar Jati1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | FIRE-WALL (Fire Warning Emergency with Breaker and Auto Caller) |

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| EE-048 | Yusri Syam Akil1\*, Andi Abdul Halik Lateko2 and Amran Rahim3 | 1Department of Electrical Engineering, Hasanuddin University, Makassar, Indonesia , 2Department of Electrical Engineering, Muhammadiyah University of Makassar, Indonesia , 3Department of Mathematics, Hasanuddin University, Makassar, Indonesia | Hydroelectricity Consumption, Power Losses and Economic Performance in Indonesia |
| EE-062 | Chico Hermanu Brillianto Apribowo1\* and Edi Nugroho1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Stable Analysis of Transient Stability in East Kalimantan Mahakam System Because Short and Switching |
| EE-064 | Langlang Gumilar1\*, Dezetty Monika2, Arif Nur Afandi1 and Quota Alief Sias1 | 1Department of Electrical Engineering,Universitas Negeri Malang,2Department of Electrical Engineering,Politeknik Negeri Jakarta, Indonesia | Wind Power Plant from Air Conditioning Exhaust using L Savonius Wind Turbine |
| EE-071 | Adi Abimanyu1\*, Muhtadan Muhtadan1, Efi Lestari1 and Syarip Syarip1 | 1STTN-BATAN, Indonesia | Design of Data Acquisition System on SAMOP Reactor using Labview FPGA |
| EE-093 | Muhammad Hamka Ibrahim1\*, Chico Hermanu Brillianto Apribowo1 and Subuh Pramono1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia | Novel Architecture of Overlapping PPM Modulator using Circular Shift Register for Visible Light Communication |
| EE-110 | A.N. Afandi1,2\*, Langlang Gumilar1 and Irham Fadlika1 | 1Electrical Engineering, Faculty of Engineering, Universitas Negeri Malang, Malang, Jatim, Indonesia,2Smart Power and Advanced Energy Systems Research Center, Batu, Jatim, Indonesia | Local Power Grid Assessment of the Power System Expansion Considering Captive Power Plants |
| EE-113 | Restu Nugrahadi1, Wahri Sunanda1\*, Rika Favoria Gusa1, Asmar Asmar1 and Irwan Dinata1 | 1Department of Electrical Engineering, Faculty of Engineering, Universitas Bangka Belitung, Indonesia | Design of Voltage Regulator for Photovoltaic and Wind Hybrid Power Plant Based on Microcontroller |
| EE-118 | Stephanus Hanurjaya1, Miftahul Anwar1\*, Irwan Iftadi1 and Subuh Pramono1 | 1Sebelas Maret University, Indonesia | Capacitance Effect of Single-Electron Transport In Uniform Quantum Dots |
| EE-119 | Reza Yusadika Putra1, Miftahul Anwar1\*, Meiyanto Eko Sulistyo1, Irwan Iftadi1 and Feri Adriyanto1 | 1Sebelas Maret University, Indonesia | Single-Electron Transport Characteristics in Double Quantum Dots System |
| EE-122 | Abid Alim Mustaqim1, Augustinus Sujono1\* and Feri Adriyanto1 | 1Sebelas Maret University, Indonesia | Closed Loop Control on Battery Charge Regulator Lead-Acid using Switching Technique |
| EE-127 | Sri Mawar Said1, Yusri Syam Akil1\* and Muh Hanif Muzakir1 | 1Department of Electrical Engineering, Hasanuddin University, Makassar, Indonesia | GIS Approach for Wind Power Plant Development in South Sulawesi, Indonesia: A Location Suitability Analysis  |
| EE-130 | Amin Suharjono1\*, Yogi Prabowo1, Sri Anggraeni1 and Eni Wardihani1 | 1Politeknik Negeri Semarang , Indonesia | Improving The Accuration of Train Arrival Detection based-on Vibration Signal using Accelerometer Sensor |
| EE-132 | Chico Hermanu Brilianto Apribowo1\*, Agustinus Sujono1, Aji Fauzan Hidayat1, Irwan Iftadi1 and Muhammad Hamka Ibrahim1 | 1Sebelas Maret University, Indonesia | The Effect of Operational Load Configuration to Transient Stability on Petrochina International Jabung |
| EE-136 | Jannus Maurits Nainggolan1\*, Chairul Hudaya1 and Iwa Garniwa Mk1 | 1University of Indonesia  | The Correlation between Acoustic Emission Signals and Discharge Current in the Detection of Partial Discharge in Electrical Insulation |
| EE-137 | Yuli Rodiah1\*, Tarcicius Haryono1\* and Suharyanto1\* | 1Universitas Gadjah Mada, Indonesia | Electrical Properties of Contaminated Oil Transformer after Microwave Thermal Recondition Processing  |
| EE-140 | Jannus Maurits Nainggolan1\*, Amien Rahardjo1 and Iwa Garniwa Mk1 | 1University of Indonesia  | Partial Discharge Pattern in Insulation Material with Two Cavities Based on Acoustic Emission Signal |
| EE-142 | Subuh Pramono1\*, Chico Hermanu Brillianto Apribowo1, Muhammad Hamka Ibrahim1 and Hari Maghfiroh1 | 1Universitas Sebelas Maret, Indonesia | Improving Performance of Energy Efficient V-LEACH Routing Protocol for Wireless Sensor Networks |
| EE-153 | Miftahul Anwar1\*, Yuana Ayub1, Ryoki Martfuadi1, Teguh Endah Saraswati1 and Chico Hermanu Brillianto Apribowo1 | 1Sebelas Maret University, Indonesia | Electrical Arc Discharge Monitoring Device for Carbon Nanoparticles Fabrication |
| EE-157 | Novie Theresia Br. Pasaribu1\*, Ratnadewi Ratnadewi1, Agus Prijono1, Roy Pramono Adhie1\* and Joseph Felix Hermawan1\* | 1Department of Electrical Engineering, Universitas Kristen Maranatha, Indonesia | Design Drowsiness Detection System for Unique Person |
| EE-160 | Muliady Muliady1, Erwani Merry Sartika1, Cindrawaty Lesmana2\* and Elizabeth Elizabeth3 | 1Department of Electrical Engineering, Universitas Kristen Maranatha, Bandung, Indonesia, 2Department of Civil Engineering, Universitas Kristen Maranatha, Bandung, Indonesia,3Department of Visual Communication Design, Universitas Kristen Maranatha, Bandung, Indonesia | UAV Photogrammetry for Generating 3D Campus Model |

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| IE-003 | Agung Sutrisno1\*, Vikas Kumar2, Rudi K Arif3 and Shinta Virdhian4 | 1Sam Ratulangi University, Indonesia,2University of the West of England, Bristol,3Muhammadiyah University, West Sumatera, Indonesia,4Center for Metal and Machinery, Bandung, Indonesia |  A Classification and Framework for Measuring Sustainability Risk Indices in the Supply Chain of Small and Medium Enterprises (SMEs) |
| IE-006 | Sk Riad Bin Ashraf1, Zilkad Hossain1 and A.R.M. Harunur Rashid1\* | 1Islamic University of Technology (IUT), Bangladesh | Development of a framework for 5S implementation considering specific industry and country context |
| IE-007 | Tegar Yuli Arianto1\*, Yusuf Priyandari1 and Pringgo Widyo Laksono1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | Process and Problems in Implementation of GS1 Standard at Small and Medium Enterprise (SME) |
| IE-017 | Wahyu Susihono1\*, Iis Istianah2 and Gugun Gunawan3 | 1Industrial Engineering Department, Faculty of Engineering, University of Sultan Ageng Tirtayasa, Indonesia, 2The Audit Board of the Republic of Indonesia, 3Agribusiness Department, Faculty of Agriculture, University of Sultan Ageng Tirtayasa, Indonesia | Evaluation of Energy Consumption and Recommendation of Work Improvement in Manufacturing Company |
| IE-020 | Agung Sutrisno1\* and Maikel Rembet1 | 1Sam Ratulangi University, Indonesia | Typological Risks Affected by Industrial Revolution 4.0 to the Operation of Small and Medium Enterprises |
| IE-047 | Yunia Dwie Nurcahyanie1,2, Moses Laksono Singgih2\* and Dyah Santhi Dewi2 | 1Universitas PGRI Adi Buana Surabaya, Indonesia,2Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia | DFSS a Literature Review |
| IE-055 | Yuka Sato1\* and Wakhid Ahmad Jauhari1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | Managing Critical Spare Part Inventories in an Oil Drilling Company using an Economic Ordering Quantity (EOQ) Method |
| IE-056 | Intan Dewi Melinda1\*, Wakhid Ahmad Jauhari1 and Cucuk Nur Rosyidi1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | The Optimal-Sizing of Energy Storage for A Fossil Fuel Power Plant |
| IE-058 | Carinda Adistiara1\*, Irwan Iftadi1,2 and Wakhid Ahmad Jauhari1 | 1Industrial Engineering Department, Faculty of Engineering, Sebelas Maret University, Indonesia,2Electrical Engineering Department, Faculty of Engineering, Sebelas Maret University, Indonesia | Human Error Analysis using Systematic Human Error Reduction and Prediction Approach (SHERPA) on Operation Process of Taksi Kosti Solo |
| IE-059 | Antika Adzary Sekar Fadlilah1\*, Irwan Iftadi1,2 and Wakhid Ahmad Jauhari1 | 1Industrial Engineering Department, Faculty of Engineering, Sebelas Maret University,Indonesia 2Electrical Engineering Department, Faculty of Engineering, Sebelas Maret University, Indonesia | Use Error Analysis using Predictive use Error Analysis (PUEA) on Operation Process of Batik Solo Trans |
| IE-060 | Wakhid Ahmad Jauhari1\* and Intan Dewi Melinda1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | Energy Implications in a Supply Chain Inventory Model under Stochastic Demand and Adjustable Production Rate |
| IE-067 | Wiwit Marta Pangesty Putri1\* and Erwin Widodo1 | 1Industrial Engineering Department, Faculty of Industrial Technology, Institut Teknologi Sepuluh Nopember, Indonesia | Efficient Power Generation and Transmission System Using Cooperative Game Theory (Case Study: Electricity in Kalimantan Island) |
| IE-068 | S. N. Hapsari1\*, C. N. Rosyidi1 and W. A. Jauhari1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | An Optimization Model for Liquid Steel Production Allocation at PT. XYZ Considering Maintenance Schedule |
| IE-069 | Dana Prianjani1\*, Nailil Muna2, Isna Nugraha1,2 and Cucuk Nur Rosyidi1 | 1Master Program of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia, 2Department of Industrial Engineering, Faculty of Engineering, Universitas Islam Batik, Indonesia | Inventory Analysis of Al Muayyad Cooperative Store |
| IE-070 | Endah Budiningsih1\*, C. N. Rosyidi1 and W. A. Jauhari1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | An Optimization Model of Undergraduate Thesis Examination Scheduling in Department of Industrial Engineering, Sebelas Maret University |
| IE-076 | Amanda Intan Lady Deamonita1\*, Eko Pujiyanto1 and Cucuk Nur Rosyidi1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | The Implementation of Lean Six Sigma in a Book Manufacturing Company: A Case Study |
| IE-079 | Sulistiono1, Farid Ishartomo1\*, Dwi Cahyadi Raharjo1 and Cucuk Nur Rosyidi1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | A Linear Programming Model in Guitar Production to Maximize Profit: A Case Study of Guitar Manufacturer in Indonesia |
| IE-082 | Yunus Nazar1,2\*, Ridya Amerani Pra Lovian1,3, Dwi Cahyadi1,4 and Cucuk Nur Rosyidi1 | 1Master Program of Industrial Engineering, Universitas Sebelas Maret, Indonesia,2Weaving Engineering, AK Tekstil Solo, Indonesia,3Spinning Engineering, AK Tekstil Solo, Indonesia,4Department of Mechanical Engineering, Universitas Soerjo, Indonesia | Supplier Selection and Order Allocation using TOPSIS and Linear Programming Model at PT. Sekarlima Surakarta |
| IE-087 | Virda Hersy Lutviana Saputri1\*, Yuniaristanto2, Wahyudi Sutopo2 and Muh. Hisjam2 | 1Master Program of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia , 2Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret , Indonesia | Optimal Location of Rail-Road Freight Hubs: A Case Study |
| IE-090 | Rieska Ernawati1\*, Bambang Suhardi1 and Eko Pujiyanto1 | 1Master Program of Industrial Engineering Universitas Sebelas Maret, Indonesia | Mental and Physical Student Workload on Vocational Higher Education |
| IE-091 | Seamus Tadeo Marpaung1\*, Cucuk Nur Rosyidi1 and Wakhid Ahmad Jauhari1 | 1Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Indonesia | The Application of Project Management for Manufacturing Planning In A Make-to-Order Company |
| IE-095 | Fadhilah Al Karimah1\*, Irwan Iftadi1,2 and Rahmaniyah Dwi Astuti1 | 1Deparment of Industrial Engineering, Sebelas Maret University, Surakarta, Indonesia, 2Deparment of Electrical Engineering, Sebelas Maret University, Surakarta, Indonesia | Design Facility Tool for Reduce the Risk Work Posture and Increase Productivity at Batik Industry |
| IE-098 | Nano Koes Ardhiyanto1\*, Eko Pujiyanto2 and Cucuk Nur Rosyidi2 | 1Master Program of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret , Indonesia | Multi-Responses Optimization of Plastic Injection Molding Process Parameters for Biodegradable Polymers Using Taguchi Method and TOPSIS |
| IE-102 | Regina Mardiana1\*, Irwan Iftadi1,2 and Rahmaniyah Dwi Astuti1 | 1Department of Industrial Engineering, Sebelas Maret University, Indonesia2Department of Electrical Engineering, Sebelas Maret University, Indonesia | Designing Fabrics Dyeing Tool to Reduce The Risk of Work Posture in Printing Som.A Tex Sukoharjo |
| IE-104 | Nida An Khofiyah1\* and Wahyudi Sutopo1,2 | 1Industrial Engineering Department, Faculty of Engineering Sebelas Maret University, Indonesia, 2National Center for Sustainable Transportation Technology, Indonesia | Feasibility Study Commercialization Technology of Lithium Battery Pack for Drones with Goldsmith Commercialization Model |
| IE-111 | Sheila Salma1\*, Karyma Rahma1 and Ari Widyanti1 | 1Departement of Industrial Engineering, Bandung Institute of Technology (ITB) Ganesa 10 Bandung Indonesia | Review of Blue Light Research: Its Potential to Increase Rail Safety |

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| IE-112 | Sheila Salma1\*, Mohammad Gafigi1, Karyma Rahma and Ari Widyanti1 | 1Department of Indsutrial Engineering Bandung Institute of Technology (ITB) Indonesia | Lean Manufacturing Performance and Organizational Culture: An Exploratory Study |
| IE-134 | Ari Andriyas Puji1\*, Agus Mansur2 and Imam Djati Widodo3 | 1Post Graduate Program, Department of Industrial Management, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta, 2Industrial Engineering Department Lecturer, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta,3Industrial Engineering Department Lecturer, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta | Analysis of Supply Chain Risk Mitigation Integrated with Fuzzy Logic, House Of Risk and AHP (Case Study at CV. Multiguna) |
| IE-139 | Nurhayatu Nufut Alimin1\*, Lulu Purwaningrum1 and Elianna Gerda Pertiwi2 | 1Sebelas Maret University, Indonesia, 2Insititute of Technology Telkom Purwokerto, Indonesia | Establishing The Green Concept as a Habit of Students By the Green environment of Kul-kul School Bali |
| IE-141 | Marudut Sirait1\* | 1Department of Industrial Engineering, Faculty of Engineeering, Universitas Brawijaya, Indonesia | Environmental Assessment of Indonesia Electricity Generation from Coal : A Life Cycle Assessment  |

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| IE-143 | Muhammad Isnaini Hadiyul Umam2\*, Budi Santosa1 and Diva Kurnianingtyas2 |  1Industrial Engineering Department, Institute Technology of Sepuluh Nopember,Surabaya, Indonesia, 2Doctoral Student of Industrial Engineering Department, Institute Technology of Sepuluh Nopember, Surabaya, Indonesia | Optimization of Medical Emergency Service under Limited Resources of Ambulances, Response Time and Cost |
| IE-144 | Diva Kurnianingtyas1\*, Budi Santosa2 and Muhammad Isnaini Hadiyul Umam2 |  1Industrial Engineering Department, Institute Technology of Sepuluh Nopember,Surabaya, Indonesia, 2Doctoral Student of Industrial Engineering Department, Institute Technology of Sepuluh Nopember, Surabaya, Indonesia | A Hybrid Symbiotic Organism Search and Nearest Neighbourhood Search to Minimize Ambulance Response Time  |
| IE-149 | Lulu Purwaningrum1\*, Iik Endang1 and Nurhayatu Nufut Alimin1 | 1Department of Interior Design, Faculty of Arts and Design, Universitas Sebelas Maret, Indonesia, 2Doctoral program of economics, Faculty of Economics, Universitas Sebelas Maret, Indonesia | Sustaining the Environment by Using Wood as a Material of Indonesian Elementary School Furniture |
| IE-151 | Lilies Setiartiti1\* and Muh. Hisjam2 | 1Department of Economics, Universitas Muhammadiyah Yogyakarta, Indonesia 2Department of Industrial Engineering, Universitas Sebelas Maret, Indonesia | Implementation and Institutional Development for Solar Power Plants Management in Yogyakarta, Indonesia |
| IE-152 | Syed Ahmad Helmi1\*, Nafiseh Ghorbani Renani1, Muhammad Hisjam2 and Alireza Rangrazjeddi1 | 1Universiti Teknologi Malaysia, Malaysia, 2Universitas Sebelas Maret, Indonesia | AHP Model for Optimum Distribution Network Selection in Food Industry |
| IE-154 | Syed Ahmad Helmi1\*, Arman Alias1 and Muhammad Hisjam2 | 1Universiti Teknologi Malaysia, 2Universitas Sebelas Maret, Indonesia | Improved Design Solution for Motion Resistance Problem through Integration of Robust Design and Theory of Inventive Problem Solving (TRIZ) |
| IE-155 | Arinda Soraya Putri1 and Muh. Hisjam2\* | 1Research Group of Techno-economics and Industrial Engineering Departement, Indonesia, 2Sebelas Maret University, Indonesia | Research Development of Sustainable Supply Chain Management: Comparative Study |
| IE-156 | Erly Ekayanti Rosyida1\*, Budi Santosa1 and I Nyoman Pujawan1 | 1Institut Teknologi Sepuluh November, Surabaya, Indonesia | Combinational Disruptions Impact Analysis in Freight Road Transportation Network |
| IE-161 | Fidia Setiyaningrum1, Eko Pujiyanto Pujiyanto1\* and Lobes Herdiman1 | 1Department of Industrial Engineering, Sebelas Maret University, Indonesia | Application of Lean Six Sigma Methods to Prevent Crank Defect Hospital Bed in A Hospital Equipment Company: A Case Study |
| IE-162 | Faishal Arham Pratikno1, Eko Pujiyanto1\* and Ilham Priadythama1 | 1Department of Industrial Engineering, Sebelas Maret University, Indonesia | Multi-Repsonse Optimization of Sewing Process Using Taguchi and Desirability Function Analysis |
| IE-174 | Andhy Rinanto1\* | 1Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia | Service Quality Measurement of Higher Vocational Education Based on SERVQUAL and KANO: A Case Study in Politeknik ATMI Surakarta |
| IE-177 | Kuntum Khoiro Ummatin1\*, Aulia Hanni1, and Qam Okta Arifianti1 | 1Departement of Engineering Management, Universitas Internasional Semen Indonesia | Analysis of Quality and Quantity of RDF (Refused Derived Fuel) Into an Alternative Fuel Subtitution For Coal (a Case Study in a Cement Industry) |

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| CS-150 | Tikno1\* and Putri Amelia1 | 1Universitas Internasional Semen Indonesia | Measuring the Moderating Effect of Age, Gender and Educational Level on UMKM Go Digital Program |