

Table of Content

V225000	Preface
V225000	Statement of Peer Review
V225000	Table of Content
V225001	Corrosion evaluation of patch repair material using seawater mixed mortar Pinta Astuti, Adinda Dewi Puspitasari, Anisa Zulkarnain, Ahmad Choiry Fajar, Adhitya Yoga Purnama
V225002	A Framework for green roads implementation in roads construction projects: A case study in Purworejo Regency Larashati B'tari Setyaninge, Melinda Dires, Agung Nusantara
V225003	A simple determination of runoff coefficient in open pit mine areas Rahma Norfaeda, Kartini Kartini, Dessy Lestari Saptarini, Reza Adhi Fajar
V225004	Assessment of service efficiency using public service models Vakhid Zakirov
V225005	Bauxite refinery residue neutralization using active wet carbonation technique Inggit Borisha, Joko Wintoko, Agus Prasetya
V225006	Assessing the efficacy of contraflow strategies and ripple effects on peripheral road network performance: Insights from Brigjen Sudiarto Road, Semarang Rizal Aprianto, Muhammad Rifqi Irfani, Brasie Pradana Sela Bunga Riska Ayu, I Made Suraharta
V225007	Implementing visum technology within the framework of school transportation planning: A case study in Klaten Regency, Indonesia Nurul Fitriani, Dani Fitria Brilianti, Reza Yoga Anindita, Pandu Nugroho
V225008	Finite element analysis of fermentation frame design for cocoa beans using ASTM A36 material Arfan Halim, Ilmawan Suryapradana, Radear N.S, Gheitsa Z.F, Akbar P
V225009	Heavy metal contamination in swiftlet feathers: A comparative study of chromium and arsenic levels in industrial and non-industrial areas of East Java, Indonesia Ikhwanussafa Sadidan, Sunu Kuntjoro, Nurul Amri Komarudin
V225010	Finite element analysis of bumper beam with thickness variation based on natural fibre composite material Kardiman Kardiman, Reynaldi Saputra, Deri Teguh Santoso, Eri Widiyanto, Rizal Hanifi
V225011	Optimal sizing of distributed generation using a genetic algorithm approach for IEEE 33 bus system Dian Budhi Santoso, Reni Rahmadewi, Safrian Andromeda, Egi Sunardi
V225012	Extraction of gadolinium and neodymium from tayan red mud Crystonius Simbolon, Panut Mulyono, Sutijan Sutijan, Himawan Tri Bayu Murti Petrus, Widi Astuti, Esti Handini
V225013	Experimental study of the application of air-water two-phase in peltier based cooling systems Setya Wijayanta, Wahyu Dzuriyatul Fauzi, Wildan Surya Lazuardi, Komang Andre Kristiawan, Daris Alwansyah
V225014	Analysis biodiesel distribution in Indonesia's Kalimantan Region: A case study on the readiness of ship-to-ship floating storage mechanisms in Balikpapan to Support the B35-B40 Biodiesel Mandate Junaidi Junaidi, Atie Tri Juniati, I Nyoman Teguh Prasida, Herbert Wibert Victor Hasudungan

- V225015 **Experimental study on crashworthiness in double crush tubes of polylactic acid material**
Muh Farid Hidayat, Mahlina Ekawati
- V225016 **VISSIM-Based assessment of road performance under proposed bicycle lane scenarios: Case study Adi Sumarno Road in Karangayar**
Frans Tohom, Irianti Dwi Prasetyaningsih, Suprpto Hadi
- V225017 **Impact of pH and collector concentration on froth flotation of spent lithium-ion battery materials**
Zaera Regitta Prawiranto, Indra Perdana, Himawan Tri Bayu Murti Pretus
- V225018 **Enhanced swelling hydrogel of cellulose by adding fly ash**
Reni Titis Wijayanti, Himawan Tri Bayu Murti Petrus, Ferian Anggara, Widi Astuti, Panut Mulyono
- V225019 **Evaluation of the building information modelling (BIM) implementation in construction projects on Lombok Island using analytical hierarchy process (AHP) and SWOT analysis**
Nurdin Nurdin, Hariyadi Hariyadi, Ngudiyono Ngudiyono
- V225020 **Recovery of the energy system of Ukraine towards the development of renewable energy**
Yevhen Terekhov
- V225021 **Empowerment of solar renewable energy and low-cost interlocal telecommunication system for economic development of Panmutih Beach Fishermen Villages**
Yuliarman Saragih, Resi Sujiwo Bijokangko, Tumpal Gultom, Tiarmin Saragih, Carolan Ignatius Saragih, Agatha Elisabet Saragih, Bahterayudha Bahterayudha, Samuel Samuel
- V225022 **Additive manufacturing expert system (AMES): A case study for effective automotive plastic parts manufacturing**
Wachid Yahya, Wan Mansor Wan Muhamad, Muhammad Agus Shidiq, Aye Aaron Edogbo, Maulina Isza Fadila
- V225023 **Influence of AA2024-O inserted material on microstructure and mechanical properties of FSWed AA5083-H112 joints**
Aszul Kifrun, Mochammad Noer Ilman
- V225024 **Shoreline change assessment due to coastal structure development: A case study of Plumbon Estuary, Central Java, Indonesia**
Aszul Kifrun, Mochammad Noer Ilman
- V225025 **Minimizing distortion in flux cored arc welding of A36 steel by preheating and its effect on weld mechanical properties**
Bela Amelia, Mochammad Noer Ilman, Nur Akhmad Triwibowo
- V225026 **Enhancing capacity in 5G network by layering cell**
Muhammmad Yaser, Ainil Safitri
- V225027 **Design and development of an innovative universal rotor holder automotive tool for operational efficiency of partner**
Akbar Ela Heka, Muhammad Firdaus Jauhari
- V225028 **Measurement mental and physical workload in final-year thesis students in the faculty of engineering at Universitas Muhammadiyah Cirebon**
Budi Susanto, Harry Gunawan, Bastoni Bastoni
- V225029 **Risk analysis of mining construction activities on hydrogeological vulnerability in Dompu District, East Sumbawa, West Nusa Tenggara**
Udi Susilo, Atie Tri Juniati, I Nyoman Teguh Prasadha
- V225030 **A review of combustion in waste incinerator and its emissions**
Annisa Bhikuning, Budi Setiawan, Sandi Apriandi Setiawan, Hezron Elyakim Potto
- V225031 **Optimizing bus rapid transit performance through route analysis: Evidence from Trans Metro Deli Medan**
Brasie Pradana Sela Bunga Riska Ayu, M. Yassir Hidayat Hasibuan, Frans Tohom, Riza Phahlevi Marwanto
- V225032 **Design of purchase intention strategy in the makeover independent retail using kansei engineering**
Dene Herwanto, Rianita Puspa Sari, Ajeng Alaya Putri, Asep Erik Nugraha, Agustian Suseno, Apid Hapid Maksum, Risma Fitriani

- V225033 **Energy efficiency in sustainable buildings: implementation of green design and technology in Karawang Regency**
Bahar Amal, Dicki Dian Purnama, Fatma Nurkhaerani, Neneng Winarsih, Nurani Masyita, Amalia Rizka Sugiarto, Cahya Suryadi, Grisela Nurinda Abdi
- V225034 **Carbon footprint in potato chips agroindustry supply chain: A case study in Garut, Indonesia**
Ririn Regiana Dwi Satya, Laela Chairani, Yulita Veranda Usman, Nur Yulianti Hidayah
- V225035 **Supply chain management performance analysis using SCOR method at PT. Bertho Chrisanta**
Ilsa Purnamasari, Eko Muh Widodo, Affan Rifa'i, Tuessi Ari Purnomo
- V225036 **The effect of magnetic rotor variations on motorcycle 4-step injection modification on engine performance as a potential application of bioethanol**
Teguh Satria Darmawan, Roni Ari Saputra, Samsul Arifin, Wawan Purwanto, Hasan Maksum, Ahmad Arif
- V225037 **The effect of gear variations on the wind turbine alternator side on the voltage and electric current generated in a 4-stroke motorcycle**
Wawan Purwanto, Khoirul Ihsan Yogandi, Bungaran Sinaga, Aroma Ikhwan, Milana Milana, Ahmad Arif
- V225038 **Bicycle injection system design 4-stroke motorcycle**
M. Adib Arziansyah, Ahmat Ikhsan, Wahyu Danang Veby Yansyah, Wawan Purwanto, Hasan Maksum, Ahmad Arif
- V225039 **Vehicle temperature identification based on vehicle dimensions during vehicle parking**
Syifa Mar'atus Saleha, Mutiara Vinta Andani, Gustia Ramadhani, Wawan Purwanto, Hendra Dani Saputra, M. Yasep Setiawan
- V225040 **Effect of ECU programmable reprogramming of 4-stroke motorcycle modified injection on engine performance with variations in injection timing, ignition timing and fuel type**
Sudirman Sudirman, Dovin Manstikal, Muhamad Yuda Suhaimi, Wawan Purwanto, Hasan Maksum, Ahmad Arif
- V225041 **Effect of ignition timing variations using a programmable ECU on power and torque of FI motorcycle**
M. Ikhwan, Riko Saputra, Ilham Febriansyah, M. Sadly Firmansyah, Rizki Kurnia Ramadhan, Wawan Purwanto, Hendra Dani Saputra
- V225042 **PLC program design using state diagram method on insert nut installing machine**
Tri Hannanto Saputra, Melisa Mulyadi, Linda Wijayanti
- V225043 **Design and development of a portable diagnostic tester for fault detection in EFI vehicle control systems**
Dwi Sudarno Putra, Joe Vane N. Antifuesto, Budi Utomo Wisesa, Zainul Hamidi, Mutiara Vinta
- V225044 **Utilization of vehicle exhaust gas through generator engineering to generate voltage for vehicle batteries**
Syalsa Billa Ahmad, Ilham Febriansyah, M. Yasep Setiawan, Milana Milana, Nuzul Hidayat, Donny Fernandez, Iffarial Nanda
- V225045 **Analysis of primary coil voltage on spark ignition engine using flash cable**
Ahmad Arif, Bintang Abimanyu, Wawan Purwanto, Dwi Sudarno Putra, Wagino Wagino, Milana Milana, Nuzul Hidayat, M. Yasep Setiawan, Hendra Dani Saputra
- V225046 **Development of design concepts driving factors for technology acquisition in small and medium aluminium industries**
Utaminingsih Linarti, Fitria Dinda Kartika, Alifin Iman Setiawan
- V225047 **Bearing remanufacturing practices: a case study in PT. SKF Indonesia**
Rita Desyanti, Suparno Suparno, Niniet Indah Arvitrida
- V225048 **Prototype of early warning system for flood disaster detection and mitigation based on internet of things**
Phisca Aditya Rosyady, Muhammad Iksan, Aripsa Tri Ramdani
- V225049 **Internet of things-based intravenous fluid monitoring system prototype and drops per minute control with MG996R servo**
Phisca Aditya Rosyady, Nurina Umy Habibah, Mhd. Lailan Arqam