



## Table of Content

V326000	Preface
V326000	Statement of Peer Review
V326000	Table of Content
V326001	<b>Multi-response optimization of biogasoline engine performance and exhaust emissions using the taguchi method</b> Riko Saputra, Wawan Purwanto, Dwi Sudarno Putra, Andril Arafat, Wilia Sondriva
V326002	<b>Assessment green building in the learning center building using the greenship existing building tool</b> Lia Indriani, Ahmad Zaki, Nursetiawan, Guntur Nugroho
V326003	<b>Landslide hazard spatial distribution for disaster mitigation in tutur sub-district</b> Titi Rahayuningsih, Nurul Fitri Alya, Vita Ayu Kusuma Dewi, Mega Septia Sarda Dewi, Eko Suwarno, Antelas Eka Winahyo
V326004	<b>Utilization of ironwood sawdust waste as an adsorbent through chemical and physical activation processes with various KOH activation concentrations</b> Wahyudi Wahyudi, Mustafa Mustafa, Kusyanto Kusyanto, Andri Kurniawan, Lasriyah Manurung, Gita Puspita Sari
V326005	<b>Effect of resin and catalyst addition on the characteristics of asphalt concrete wearing course (AC-WC) for coastal area</b> Juny Andry Sulisty, Qurrota A'yun, Rik Van Marum
V326006	<b>Effect of variation in size of coarse aggregate on compressive strength, porosity, and permeability in pervious concrete</b> Yudi Pranoto, Daru Purbaningtyas, Mohammad Hidayat, Andini Tri Ambar Wati
V326007	<b>Digital-based construction project supply chain optimization model for cost and time efficiency in Karawang Regency</b> Bahar Amal, Fajar Ramadhan, Dicki Dian Purnama, Cahya Suryadi, Nurani Masyita, Grisela Nurinda Abdi, Fatma Nurkhaerani, Neneng Winarsih, Amalia Rizka Sugiarto
V326008	<b>Experimental study of the effect of HHO (oxyhydrogen) electrolyzer installation location on fuel mass flow rate in a four-stroke gasoline motorcycle engine</b> Hasan Maksum, Muhammad Sadly Firmansyah, Ridho Wahyudi, Jeri Rizki Efendi, Dwi Sudarno Putra, Wawan Purwanto
V326009	<b>Comparative analysis of electrical energy consumption in sustainable turning of suspension spring equalizer components using a line boring machine</b> Arfan Halim, Ilmawan Suryapradana, Akbar Pratama, Masnur Masnur
V326010	<b>Traffic survey analysis for enhancing road safety: An empirical and literature-based review</b> Bambang Istiyanto, Pratikso Pratikso, Racma Mudiyo
V326011	<b>Influence of rotor magnet geometry variation on performance characteristics of a fuel-injected four-stroke motorcycle engine using high-ethanol fuel blends</b> Wawan Purwanto, Dwi Sudarno Putra, Ahmad Arif, Ihsan Nasution, Riko Saputra, Samsul Arifin
V326012	<b>Influence of integrating hydrogen-based electrolyzer on fuel consumption and exhaust emissions in a modified fuel injection four-stroke motorcycle</b> Wawan Purwanto, Muhammad Yasep Setiawan, Budi Utomo Wisesa, Andrizar Andrizar, Riko Saputra, Ridho Wahyudi
V326013	<b>Systematic optimization of ignition timing and spark plug heat range using the taguchi method for cleaner combustion in a four-stroke SI motorcycle engine</b>

- V326014 Wawan Purwanto, Martias Martias, Toto Sugiarto, Ilham Febriansyah, Riko Saputra, Ilham Putra Chaniago  
**Design and implementation of an electronic fuel injection retrofit system for a four-stroke motorcycle engine**
- V326015 Wawan Purwanto, Martias Martias, Hasan Maksum, Milana Milana, Riko Saputra, Wahyu Danang Veby Yansyah  
**Vehicle cabin heat build-up analysis based on dimensional differences under direct sunlight parking**
- V326016 Wawan Purwanto, Nuzul hidayat, Wagino Wagino, Ardian Kurniawan, Riko Saputra, Gustia Ramadhani  
**Rans-based turbulence modeling of taylor–couette flow: Simulation of vortex formation using the geko model**
- V326017 Murodil Erkinjon Madaliev, Abdirasul Xolmurzayev Islomjon Tohirov, Mukhlisa Rustamova  
**Integrating RTC based scheduling and IoT override for organic fertilizer mixing: design, validation, and improvement roadmap**
- V326018 Rido Putra, Aisyah Fadhilah Arif, Zulwisli Zulwisli, Muslim Muslim, Iffarial Nanda, Nuzul Hidayat, Zummi Tridinanti Azry  
**Air intake system optimization through velocity stack and turbo cyclone variations for fuel efficiency improvement and exhaust emission reduction in 125cc automatic motorcycles**
- V326019 Rahmat Aldi, Wagino Wagino, Toto Sugiarto, Ahmad Arif, Martias Martias, Muhammad Yasep Setiawan, Rahmat Desman Koto  
**Multi-method accident blackspot analysis using ean, ucl and chain of event: Evidence from Indonesian urban roads**
- V326020 Suprpto Hadi, Slamet Imam Wahyudi, Kartono Wubowo, Brasie Pradana Sela Bunga Riska Ayu, Reza Fitriama Nur Cahyono  
**Hydraulic and numerical analysis of non-uniform and two-phase wastewater flow in sewer pipelines**
- V326021 Shakhzodbek Umurkulov, Jahongir Orzimatov, Ismoil Nasirov, Durdona Davronova, Islomjon Inomjonov  
**Integrated supply chain management performance evaluation model in the manufacturing industry of PT XYZ**
- V326022 Ratna Sari Dewi, Moehamad Aman, Eko Muhammad Widodo, Affan Rifa`i, Tuessi Ari Purnomo  
**Intelligent vehicle control via AI-MIMO: Architectural design and simulation-based evaluation**
- V326023 Suci Suci, Dwi Sudarno Putra, Risfendra Risfendra, Iffarial Nanda, Meri Azmi  
**Systematic literature review: Impacts of vibration-assisted welding and step aging on corrosion and fatigue in AA5083–AA6061 joints**
- V326024 Saifudin Saifudin, Ilham Habibi  
**Developing Uzbekistan’s economy through the principles of industry 4.0**
- V326025 Abdumajidxon Muxtorov, Arziyev Shovkatjon Soliyevich  
**Impact of coal density on heavy equipment efficiency in mining operations: A case study of silicified and low rank coal**
- V326026 Rahma Norfaeda, Dessy Lestari Saptarini, Theresia Oktaviani  
**Implementation of lighting systems in academic building to achieve green campus**
- V326027 Ayu Herzanita, Amirah Fairuz Insyirah  
**Causal loop analysis for smart production precast: balancing productivity and sustainability with digital technologies**
- V326028 Amalia Rizka Sugiarto, Yusuf Latief, Dodi Sudiana  
**Geotechnical study of mudcell as a management strategy for slurry overburden material at mine sites**
- V326029 Kartini Kartini, Dimas Raditya Pratama, Rinova Firman Cahyani, Muhammad Rizhan, Ahmad Rizani, Muhammad Arsyad  
**Design of a scaffolding-assisted harvesting tool for palm fresh fruit bunch transport vehicles**

- V326030 Dhidik Mahandika, Dede Lia Zariatin, Agri Suwandi, Saiful Anwar, Anang Al Faraqh, Iqbal Ramadona, Adnan Fathur Rizki  
**Implementation of human–computer interaction (HCI) in flash flood prediction system using machine learning algorithm**
- V326031 Baenil Huda, April Lia Hananto, Ahmad Fauzi, Tukino Tukino, Ihsan Nasihin  
**Integrating life cycle assessment with lean assessment matrix: A framework for sustainable automotive manufacturing evaluation**
- V326032 Nadia Fasa, Dene Herwanto, Apid Hapid Maksum, Sophia Fadhila Albany Tanjung, Haniyyah Azhar  
**Durability analysis of four-stroke motorcycle engines using juken BRT ECU and iridium spark plugs with bioethanol fuel**
- V326033 Wawan Purwanto, Rido Putera, Arya Adhi Pratama, Budi Utomo Wisesa, Ilham Febriansyah  
**Development of a digital green kanban system for the finished goods warehouse in the snack food industry**
- V326034 Fransisca Debora, Lifia Citra Ramadhanti, Winarno Winarno, Jauhari Arifin, Jeni Marlina, Naufal Rabbani Sumitra, Febie Elfaladonna, P Yudi Dwi Arliyanto  
**Integration of ergonomic and aesthetic factors in handbag product development**
- V326035 Dwi Cahyadi, Ratna Wulaningrum  
**Integration of lean-green manufacturing and simulation modeling for sustainable production efficiency improvement**
- V326036 Wahyudin Wahyudin, Asep Erik Nugraha, Sutrisno Sutrisno, Fahriza Nurul Azizah, Billy Nugraha, Soma Satria  
**Performance and emission characteristics of a direct injection diesel engine fueled with palm oil-based biodiesel blends**
- V326037 Kuntang Winangun, Trio Egi Pratama, Yoyok Winardi, Fadelan Fadelan, Wawan Trisnadi Putra  
**Optimization of construction project implementation time using critical path method (CPM) case study of national brain center hospital construction project**
- V326038 Risma Fitriani, Aira Nazua Artamevia, Ade Momon Subagyo, Sukanta Sukanta, Rianita Puspa Sari  
**Experimental study of the effect of oxyhydrogen (HHO) electrolyzer installation location on exhaust emissions (CO and HC) in a four-stroke gasoline motorcycle engine**
- V326039 Hasan Maksum, Martias Martias, Wawan Purwanto, M Sadly Firmansyah, Ridho Wahyudi, M Reza  
**Designing a hybrid activated carbon–kaolin catalyst for enhanced liquid fuel production from mixed plastic waste pyrolysis**
- V326040 Teguh Suprianto, Abdul Rajab, Darmansyah Darmansyah, Dessy Lestari Saptarini  
**Vehicle frame analysis and optimization using finite element analysis approach to improve rigidity and lightness**
- V326041 Syalsa Billa Ahmad, M. Yasep Setiawan, Wawan Purwanto, Ahmad Arif, Milana Milana, Inna Kholidasari, Dori Yuvenda, Reza Andila  
**Ecosystem based adaptation for coastal resilience: Lessons from managing Tidal flooding in North Java**
- Vita Ayu Kusuma Dewi, Titi Rahayuningsih, Budiman Minasny, Muhammad Aris Ichwanto, Syafiqa Raudatur Nadya