

The background consists of a dense field of 3D-rendered numbers from 0 to 9. The numbers are arranged in a somewhat chaotic pattern, with some appearing in a light grey color and others in a dark orange color. The perspective is from a slightly elevated angle, giving the numbers a sense of depth and volume.

# Topic 2023

**Recovery Waste and i-Environment**

# 4. Aktivitas capaian terkait produk penelitian

  
REPUBLIK INDONESIA  
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

## SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202307946, 26 Januari 2023

**Pencipta**  
Nama : Ary Mazharuddin Shiddiqi, S. Kom., M.Comp.Sc., Ph.D.,  
Muhammad Akmal Fakhri Baihaqi, S.Kom, dkk

Alamat : Jl. Marina Emas Timur II C-43a, Keputhi, Sukolilo, Kota Surabaya,  
KOTA SURABAYA, JAWA TIMUR, 60111

Kewarganegaraan : Indonesia

**Pemegang Hak Cipta**  
Nama : Institut Teknologi Sepuluh Nopember (ITS)  
Alamat : Kantor Transfer Teknologi Direktorat Inovasi Dan Kawasan Sains  
Teknologi Gedung Pascasarjana Kampus ITS Sukolilo, Surabaya  
60111, KOTA SURABAYA, JAWA TIMUR, 60111

Kewarganegaraan : Indonesia

Jenis Ciptaan : Program Komputer

Judul Ciptaan : "Leak Detection Dashboard" Sistem Deteksi Kebocoran Pipa  
Air Dengan Menggunakan Sensor Ultrasonic Water Flowmeter  
Terdistribusi

Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 5 Desember 2022, di KOTA SURABAYA

Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000440869

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.  
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n Menteri Hukum dan Hak Asasi Manusia  
Direktur Jenderal Kekayaan Intelektual  
u.b.  
Direktur Hak Cipta dan Desain Industri

  
Anggoro Dasananto  
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KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

## SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202307947, 26 Januari 2023

**Pencipta**  
Nama : I.D.A.A. Warmadewanthi, S.T., M.T., Ph.D., Ary Mazharuddin  
Shiddiqi, S. Kom., M.Comp.Sc., Ph.D. dkk

Alamat : Wiguna Tengah Gang 11 No. 1, Kota Surabaya, Surabaya, JAWA  
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Kewarganegaraan : Indonesia

**Pemegang Hak Cipta**  
Nama : Institut Teknologi Sepuluh Nopember (ITS)  
Alamat : Kantor Transfer Teknologi Direktorat Inovasi Dan Kawasan Sains  
Teknologi Gedung Pascasarjana Kampus ITS Sukolilo, Surabaya  
60111 Jawa Timur, KOTA SURABAYA, JAWA TIMUR, 60111

Kewarganegaraan : Indonesia

Jenis Ciptaan : Program Komputer

Judul Ciptaan : "Aplikasi APPS4SWAM" Sistem Informasi Pengelolaan  
Sampah

Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 5 Desember 2022, di Surabaya

Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000440870

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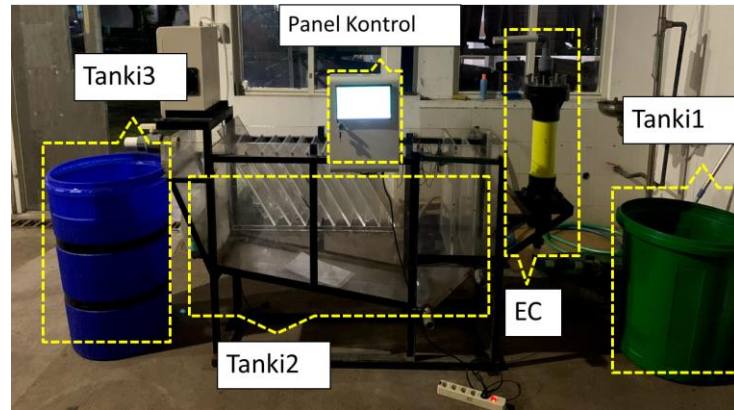
a.n Menteri Hukum dan Hak Asasi Manusia  
Direktur Jenderal Kekayaan Intelektual  
u.b.  
Direktur Hak Cipta dan Desain Industri

  
Anggoro Dasananto  
NIP.196412081991031002

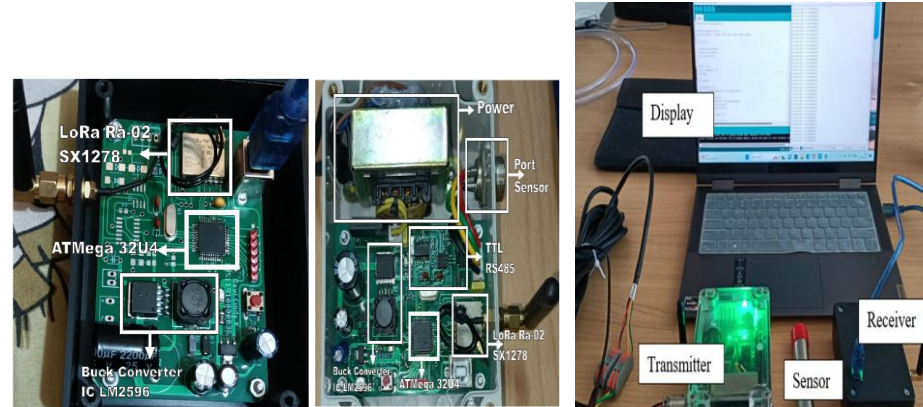


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# i-environment (smart water management)

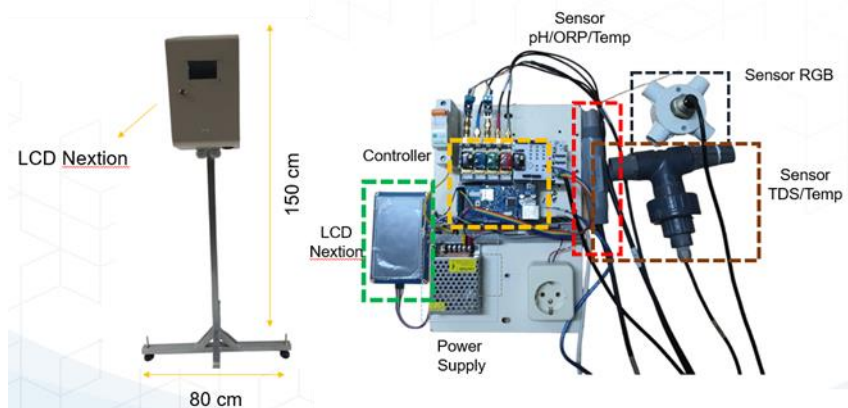


Monitoring System I-Mobile Water Treatment

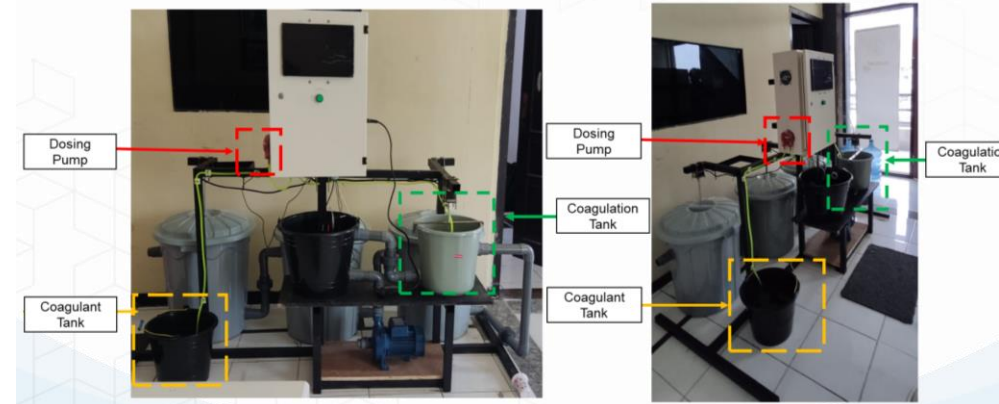


Data Acquisition system for Turbidity RK500-07 based on wireless communication

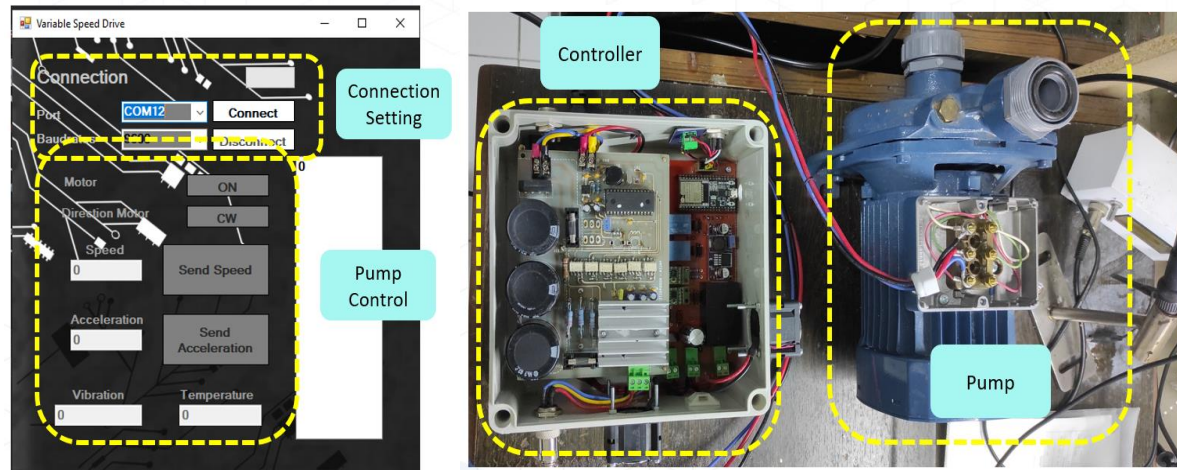
## Coagulant Dosing Control System



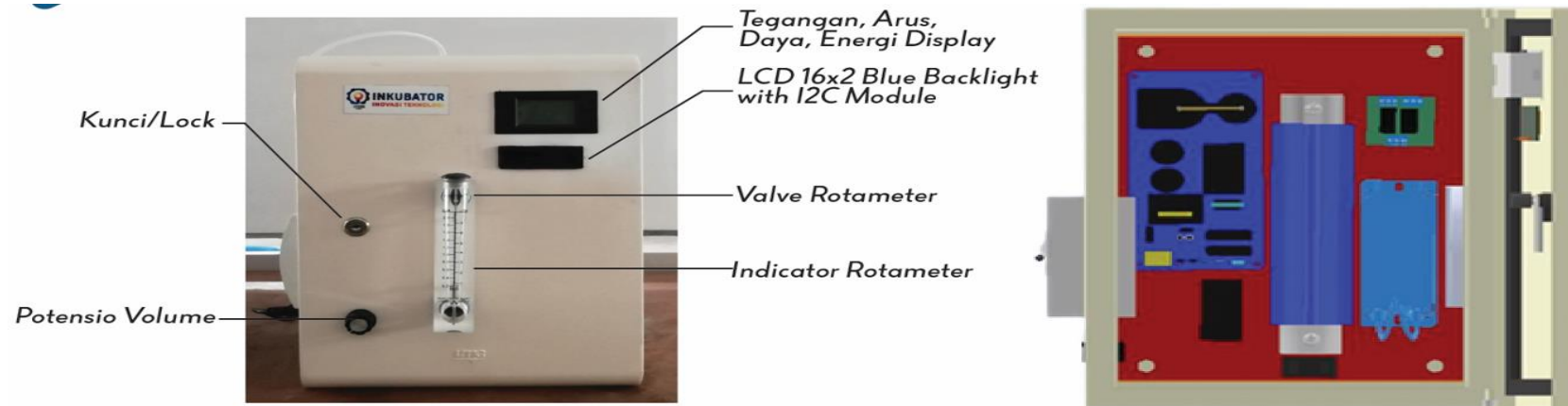
Wastewater Treatment monitoring system



# i-environment (smart water management)



Control system for VSD Pump

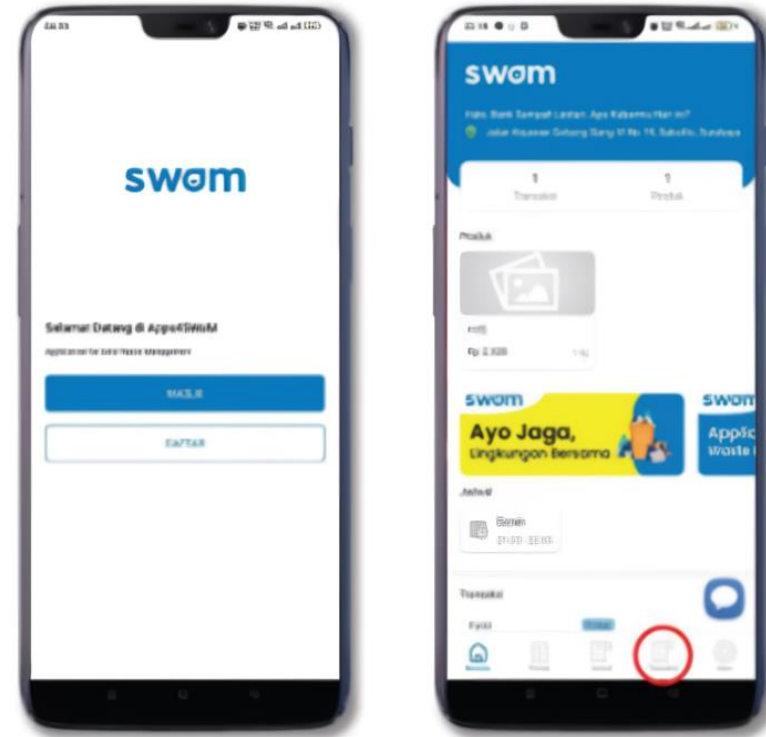


Ozone Generator for Water Treatment

# Apps4SWAM dan BIMA



**BIMA (BANGUNAN INSTAN MODULAR SEDERHANA) INOVASI PEMANFAATAN FABA PADA SISTEM MODULAR RAMAH LINGKUNGAN UNTUK NON-ENGINEERED HOUSING TAHAN GEMPA**



**Apps4SWAM**, aplikasi bank sampah skala kota Sudah digunakan oleh lebih dari 200 nasabah bank sampah di Kota Kediri

| No. | Nama Peneliti  | Judul Prototype   |
|-----|--|---|
| 1   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Monitoring System I-Mobile Water Treatment  |
| 2   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Data Acquisition system for Turbidity RK500-07 based on wireless communication  |
| 3   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Wastewater Treatment monitoring system  |
| 4   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Coagulant Dosing Control System   |
| 5   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Control system for VSD Pump   |
| 6   | Ervin Nurhayati, ST., MT, PhD<br>Arseto Yekti Bagastyo S.T., M.T., M.Phil, PhD<br>Ir. Murry Raditya, S.T., M.T | Ozone Generator for Water Treatment   |
| 7   | Dr. Eng. Yuyun Tajunnisa, ST., MT dan team   | BIMA (BANGUNAN INSTAN MODULAR SEDERHANA) INOVASI PEMANFAATAN FABA PADA SISTEM MODULAR RAMAH LINGKUNGAN UNTUK NON-ENGINEERED HOUSING TAHAN GEMPA |
| 8   | Dr. Eng. Yuyun Tajunnisa, ST., MT dan team   | MODUL PELATIHAN PEMBANGUNAN RUMAH TAHAN GEMPA   |

# 4. Aktivitas capaian terkait publikasi ilmiah

Total jurnal bereputasi : 67

Total publikasi pada proceeding : 52

| No | Nama                    | Departemen/ Fakultas   | Judul Publikasi  | Detail Publisher   |
|----|-------------------------|--|--|--|
| 1  | <u>Christiono Utomo</u> | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumihan      | A decision-making model for supporting selection of green building materials   | International Journal of Construction Management, 23(5), 922-933. <a href="https://doi.org/10.1080/15623599.2021.1944548">https://doi.org/10.1080/15623599.2021.1944548</a>  |
| 2  | Adhi Yuniarto           | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumihan | Agro-Based Wastewater Profile by Biological Treatment of Pond Treatment System in Kulai, Johor   | Biointerface Research in Applied Chemistry, 13(6), [586]. <a href="https://doi.org/10.33263/BRIAC136.586">https://doi.org/10.33263/BRIAC136.586</a>  |
| 3  | Joni Hermana            | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumihan | Algal-bacterial aerobic granular sludge for real municipal wastewater treatment: Performance, microbial community change and feasibility of lipid recovery                             | Journal of Environmental Management, 333, [117374]. <a href="https://doi.org/10.1016/j.jenvman.2023.117374">https://doi.org/10.1016/j.jenvman.2023.117374</a>  |
| 4  | Erwin Widodo            | Teknik Industri/ Fakultas Teknologi Industri                       | Analysis of Bittern Recovery Facility Using Mixed-Integer Nonlinear Programming: Centralized, Decentralized, and Hybrid Scenarios  | <i>International Journal of Technology</i> , 14(3), 638-648. <a href="https://doi.org/10.14716/ijtech.v14i3.5437">https://doi.org/10.14716/ijtech.v14i3.5437</a>   |
| 5  | Arseto Yekti Bagastyo   | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumihan | Assessment of attitude and participation level among the households and local merchants toward single-use plastic waste management: A case study in Balikpapan Municipality, Indonesia | Case Studies in Chemical and Environmental Engineering, vol. 7, 100361. <a href="https://doi.org/10.1016/j.cscee.2023.100361">https://doi.org/10.1016/j.cscee.2023.100361</a>  |
| 6  | Mohammad Arif Rohman    | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumihan      | Assessment of social sustainability performance for residential building   | <i>Sustainability: Science, Practice, and Policy</i> , 19(1), 33-45. <a href="https://doi.org/10.1080/15487733.2022.2153575">https://doi.org/10.1080/15487733.2022.2153575</a>   |
| 7  | Lily Pudjiastuti        | Teknik Kimia/ Fakultas Teknologi Industri                          | Biological Buffer Effect on Liquid-Liquid Equilibria of Systems Containing n-Butanol + Methyl Isobutyl Ketone + Water  | Journal of Chemical & Engineering Data, 68(2), 384-392. <a href="https://doi.org/10.1021/acs.jced.2c00657">https://doi.org/10.1021/acs.jced.2c00657</a>  |
| 8  | Putu Tantri Kumala Sari | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumihan      | Causes of Landslides in Road Embankment with Retaining Wall and Pile Foundation: A Case Study of National Road Project in Porong-Sidoarjo, Indonesia                                   | International Journal on Advanced Science, Engineering and Information Technology, 13(1), 42-48. <a href="https://doi.org/10.18517/ijaseit.13.1.16259">https://doi.org/10.18517/ijaseit.13.1.16259</a>   |
| 9  | Joni Hermana            | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumihan | Characteristics of algal-bacterial aerobic granular sludge treating real wastewater: Effects of algal inoculation and alginate-like exopolymers recovery                               | Chemosphere, 329, [138595]. <a href="https://doi.org/10.1016/j.chemosphere.2023.138595">https://doi.org/10.1016/j.chemosphere.2023.138595</a>  |
| 10 | Sarwoko Mangkoedihardjo | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumihan | Chemical disinfectants detoxify wastewater containing various organic substances   | Mangkoedihardjo, S., & Al-Rosyid, L. M. (2023). Chemical disinfectants detoxify wastewater containing various organic substances. <i>Environmental Research and Technology</i> , 6(1), 8-12. <a href="https://doi.org/10.35208/ert.1208362">https://doi.org/10.35208/ert.1208362</a> |

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|----|-------------------------|---|---|--|
| 11 | Sarwoko Mangkoedihardjo | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian   | Cleaning up black carbon using plant strategies   | Plant Science Today, 10. <a href="https://doi.org/10.14719/pst.2179">https://doi.org/10.14719/pst.2179</a>   |
| 12 | Ervina Ahyudanari       | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian        | CO2 Emission of Aircraft at Different Flight-level (Route: Jakarta-Surabaya)  | Chemical Engineering Transactions, 98, 39-44. <a href="https://doi.org/10.3303/CET2398007">https://doi.org/10.3303/CET2398007</a>  |
| 13 | Tatas                   | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian        | Converting Seasonal Measurements to Monthly Groundwater Levels through GRACE Data Fusion  | Sustainability, 15(10), [8295]. <a href="https://doi.org/10.3390/su15108295">https://doi.org/10.3390/su15108295</a>  |
| 14 | <u>Dewi Septanti</u>    | Arsitektur/Fakultas Teknik Sipil, Perencanaan, dan Kebumian         | Criteria for Sustaining Coastal Communities' Livelihoods A case study of Karang Sari Urban Village, Tuban Regency                   | International Review for Spatial Planning and Sustainable Development, 11(2), 278-293. <a href="https://doi.org/10.14246/irspsd.11.2_278">https://doi.org/10.14246/irspsd.11.2_278</a> |
| 15 | Eko Budi Santoso        | Perencanaan Wilayah dan Kota/ Fakultas Teknik Sipil dan Kebumian    | Cultural Tradition as a Local Context for Sustainable of Urban Identity in Gianyar City Case Study                                  | Journal of Social Science and Humanities, 31(1), 283-301. <a href="https://doi.org/10.47836/PJSSH.31.1.15">https://doi.org/10.47836/PJSSH.31.1.15</a>                                  |
| 16 | Sri Pingit Wulandari    | Statistika/Fakultas Ilmu Pasti dan Ilmu Alam                        | Data Envelopment Analysis for the Efficiency of Higher Education Departments at Sepuluh Nopember Institute of Technology, Indonesia | European Journal of Educational Research, 12(2), 1153-1169. <a href="https://doi.org/10.12973/eu-jer.12.2.1153">https://doi.org/10.12973/eu-jer.12.2.1153</a>                          |
| 17 | Christiono Utomo        | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian        | Determining Factors of Fixed Offshore Platform Inspections in Indonesia   | <i>Applied Sciences (Switzerland)</i> , 13(2), [737]. <a href="https://doi.org/10.3390/app13020737">https://doi.org/10.3390/app13020737</a>  |
| 18 | Totok Soehartanto       | Teknik Instrumentasi/Fakultas Teknik Sipil Perencanaan dan Kebumian | Dissolved oxygen control system in polishing unit u   | <i>Bulletin of Electrical Engineering and Informatics</i> , 12(2), 760-770. <a href="https://doi.org/10.11591/eei.v12i2.4445">https://doi.org/10.11591/eei.v12i2.4445</a>              |
| 19 | Arie Dipareza Syafei    | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian   | Effects of Ambient Temperature, Relative Humidity, and Precipitation on Diarrhea Incidence in Surabaya                              | International Journal of Environmental Research and Public Health, 20(3), [2313]. <a href="https://doi.org/10.3390/ijerph20032313">https://doi.org/10.3390/ijerph20032313</a>          |
| 20 | Yulinah Trihadiningrum  | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian   | Electronic waste management in schools: a case of Surabaya City, Indonesia  | Journal of Material Cycles and Waste Management, 25(1), 597-611. <a href="https://doi.org/10.1007/s10163-022-01540-4">https://doi.org/10.1007/s10163-022-01540-4</a>                   |



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|----|--------------------------------|---|---|--|
| 21 | Bieby Voijant Tangahu          | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Enhanced leachate phytodetoxification test combined with plants and rhizobacteria bioaugmentation   | Heliyon, 9(1), [e12921]. <a href="https://doi.org/10.1016/j.heliyon.2023.e12921">https://doi.org/10.1016/j.heliyon.2023.e12921</a>   |
| 22 | Susi Agustina Wilujeng         | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Evidence of microplastics in leachate of Randegan landfill, Mojokerto City, Indonesia, and its potential to pollute surface water                         | <i>Science of the Total Environment</i> , 874, [162207]. <a href="https://doi.org/10.1016/j.scitotenv.2023.16220">https://doi.org/10.1016/j.scitotenv.2023.16220</a>         |
| 23 | Umboro Lasminto                | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | FLOOD HYDROGRAPH ANALYSIS USING SYNTHETIC UNIT HYDROGRAPH, HEC-HMS, AND HEC-RAS 2D UNSTEADY FLOW PRECIPITATION ON-GRID MODEL FOR DISASTER RISK MITIGATION | <i>International Journal of GEOMATE</i> , 25(107), 50-58. <a href="https://doi.org/10.21660/2023.107.3719">https://doi.org/10.21660/2023.107.3719</a>                        |
| 24 | I Dewa Made Frendika Septanaya | Perencanaan Wilayah dan Kota/ Fakultas Teknik Sipil dan Kebumian  | Gender mainstreaming efforts in disaster management plans: Case study West Nusa Tenggara province, Indonesia  | <i>International Journal of Disaster Risk Reduction</i> , 87. <a href="https://doi.org/10.1016/j.ijdr.2023.103576">https://doi.org/10.1016/j.ijdr.2023.103576</a>            |
| 25 | Januarti Jaya Ekaputri         | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | Geopolymer Haunch Beam–Column Connection Behavior   | <i>Arabian Journal for Science and Engineering</i> . <a href="https://doi.org/10.1007/s13369-023-07921-">https://doi.org/10.1007/s13369-023-07921-</a>                       |
| 26 | Yulinah Trihadiningrum         | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Investigation of microplastic ingestion in commercial fish from Surabaya river, Indonesia   | <i>Environmental Pollution</i> , 331, [121807]. <a href="https://doi.org/10.1016/j.envpol.2023.121807">https://doi.org/10.1016/j.envpol.2023.121807</a>                      |
| 27 | Tatas                          | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | Mapping regional subsidence rate from electricity consumption-based groundwater extraction  | <i>Journal of Hydrology: Regional Studies</i>  |
| 28 | Bieby Voijant Tangahu          | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Microbiome profile of soil and rhizosphere plants growing in traditional oil mining land in Wonocolo, Bojonegoro, Indonesia                               | <i>International Journal of Phytoremediation</i> , 25(6), 697-705. <a href="https://doi.org/10.1080/15226514.2022.2103094">https://doi.org/10.1080/15226514.2022.2103094</a> |
| 29 | Yulinah Trihadiningrum         | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Performance of Conventional Drinking Water Treatment Plants in Removing Microplastics in East Java, Indonesia   | <i>Journal of Ecological Engineering</i> , 24(6), 129-143. <a href="https://doi.org/10.12911/22998993/162785">https://doi.org/10.12911/22998993/162785</a>                   |
| 30 | Sarwoko Mangkoedihardjo        | Teknik Lingkungan /Fakultas Teknik Sipil Perencanaan dan Kebumian | Performance of Selected Plants Based Growth on Landfill Leachate Treatment Using Wetland Application  | <i>Israa University Journal of Applied Science</i> , 6(2), 71-84. <a href="https://doi.org/10.52865/uwfn3858">https://doi.org/10.52865/uwfn3858</a>                          |

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|----|------------------|---|--|--|
| 31 | Widya Utama      | Teknik Geofisika/Fakultas Teknik Sipil Perencanaan dan Kebumian   | Potential for Renewable Energy Generation from Water Sources in the Batang River Area  | Environmental Research, Engineering and Management, 79(1), 80-89. <a href="https://doi.org/10.5755/j01.erem.79.1.32482">https://doi.org/10.5755/j01.erem.79.1.32482</a>                                  |
| 32 | Tavio            | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | Proposed Modified Formula for Predicting Shear Strength of Reinforced Concrete Beams Based on Eurocode Approach                                      | International Journal on Engineering Applications, 11(1), 64-72. <a href="https://doi.org/10.15866/irea.v11i1.22268">https://doi.org/10.15866/irea.v11i1.22268</a>                                       |
| 33 | Dwa Desa Warnana | Teknik Geofisika/Fakultas Teknik Sipil Perencanaan dan Kebumian   | Self-Adaptive Bare-Bones Teaching–Learning-Based Optimization for Inversion of Multiple Self-Potential Anomaly Sources                               | <i>Pure and Applied Geophysics</i> . <a href="https://doi.org/10.1007/s00024-023-03247-5">https://doi.org/10.1007/s00024-023-03247-5</a>   |
| 34 | Umboro Lasminto  | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | Sensor and internet of things based integrated inundation mitigation for smart city  | International Journal of Electrical and Computer Engineering, 13(3), 2695-2703. <a href="https://doi.org/10.11591/ijece.v13i3.pp2695-2703">https://doi.org/10.11591/ijece.v13i3.pp2695-2703</a>          |
| 35 | Dewi Hidayati    | Biologi/ Fakultas Sains dan Analitika Data                        | Spatial distribution of <i>Vespa affinis</i> based on land use and population density in Bojonegoro District, East Java Province, Indonesia          | Biodiversitas, 24(2), 861-868. <a href="https://doi.org/10.13057/biodiv/d240223">https://doi.org/10.13057/biodiv/d240223</a>   |
| 36 | Fahimah Martak   | Kimia/Fakultas Sains dan Analitika Data                           | Synthesis of UiO-66 with addition of HKUST-1 for enhanced adsorption of RBBR dye   | Arabian Journal of Chemistry, 16(4), [104637]. <a href="https://doi.org/10.1016/j.arabjc.2023.104637">https://doi.org/10.1016/j.arabjc.2023.104637</a>   |
| 37 | Tavio            | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | Tensile Properties of Woven Plastic Straw Waste Fiber-Reinforced Polymer Composites  | International Journal on Engineering Applications, 11(1), 11-17. <a href="https://doi.org/10.15866/irea.v11i1.22537">https://doi.org/10.15866/irea.v11i1.22537</a>                                       |
| 38 | Christiono Utomo | Teknik Sipil /Fakultas Teknik Sipil Perencanaan dan Kebumian      | The Effect of Consequences in Utilizing Real Estate Investment Trust (REIT) on Property Development  | International Journal on Advanced Science, Engineering and Information Technology, 13(1), 173-179. <a href="https://doi.org/10.18517/ijaseit.13.1.16275">https://doi.org/10.18517/ijaseit.13.1.16275</a> |
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