

PENELITIAN PUSDI ILB 2022

I. PENELITIAN DANA NASIONAL

NO	JUDUL	NAMA SKIM	NAMA KETUA	DEPARTEMEN	SKEMA
1	Pengembangan Wearable Sistem Monitoring Kelelahan Pengemudi Berdasarkan Sinyal Pysiologis dan Analisis Citra Wajah	Penelitian Terapan Unggulan Perguruan Tinggi	Achmad Arifin, S.T., M.Eng., Ph.D.	Teknik Biomedik	PTUPT
2	Pengembangan Model dan Software Refrigerated Container Loading Problem untuk Distribusi Produk Perishable menggunakan Kontainer / Mobil Box Berpendingin	Penelitian Dasar Unggulan Perguruan Tinggi	Dr.Eng. Ir. Ahmad Rusdiansyah, M.Eng.	Teknik Sistem dan Industri	PDUPT
3	Desain Kendali Mobil Tanpa Awak Menggunakan Satisfiability Modulo Theory untuk Mendukung Kemandirian Bangsa	Penelitian Dasar Unggulan Perguruan Tinggi	Dr. Dieky Adzkiya, S.Si., M.Si.	Matematika	PDUPT
4	Pemanfaatan Teknologi Nanofiltrasi dalam Pengolahan Air Minum untuk Mengurangi Kandungan THMs dan Mikropolutan Lainnya Menggunakan Koagulan Bittern pada Sistem Koagulasi-Flokulasi	Penelitian Dasar Unggulan Perguruan Tinggi	Ir Eddy Setiadi Soedjono, Dipl.SE., M.Sc., Ph.D.	Teknik Lingkungan	PDUPT
5	Studi Aplikasi Enzimatik Biogrouting sebagai Alternatif Ramah Lingkungan Perbaikan Kerusakan Jalan Beton	Penelitian Dasar Unggulan Perguruan Tinggi	Dr.techn. Endry Nugroho Prasetyo, S.Si., M.T.	Biologi	PDUPT

NO	JUDUL	NAMA SKIM	NAMA KETUA	DEPARTEMEN	SKEMA
6	ANTENA ARRAY PLANAR BERBASIS SUBARRAY UNTUK APLIKASI 3D WIDE-SCANNING RADAR	Penelitian Dasar Unggulan Perguruan Tinggi	Prof. Ir. Gamantyo Hendrantoro, M.Eng., Ph.D.	Teknik Elektro	PDUPT
7	Pengembangan Sistem Dynamic Wireless Power Transfer Untuk Mendukung Infrastruktur Kendaraan Listrik Nasional	Penelitian Dasar Unggulan Perguruan Tinggi	Dr. Heri Suryoatmojo, S.T., M.T.	Teknik Elektro	PDUPT
8	Studi Pengaruh Penambahan Poly(ethylene glycol) (PEG) pada Biokomposit Cellulose Acetate/Poly(L-lactic acid) Bead untuk Adsorpsi Zat Warna: Kinetika, Isothermal Adsorpsi, dan Optimalisasi	Penelitian Dasar Unggulan Perguruan Tinggi	Hikmatun Nimah, S.T., M.Sc.Ph.D	Teknik Kimia	PDUPT
9	Pemodelan Dan Perancangan Sistem Kendali Pada Persamaan Gerak Drone Menggunakan Metode Robust Control	Penelitian Dasar Unggulan Perguruan Tinggi	Prof. Dr. Dra. Mardijah, M.T.	Matematika	PDUPT
10	Pengembangan Diagram Kontrol Multivariat berbasis Robust PCA Mix untuk Intrusion Detection System	Penelitian Dasar Unggulan Perguruan Tinggi	Dr. Muhammad Ahsan, S.Si.	Statistika	PDUPT
11	METODE ALIGNMENT UNTUK PEMBUATAN KOMPOSIT SERAT ALAM SEBAGAI MATERIAL RAMAH LINGKUNGAN YANG RINGAN DAN TANGGUH	Penelitian Dasar Unggulan Perguruan Tinggi	Putu Suwarta, S.T., M.Sc., P.h.D.	Teknik Mesin	PDUPT
12	Dynamic and Co-Benefits Assessment from Circular Economic Activities based on Municipal Solid Waste Management	Penelitian Dasar Unggulan Perguruan Tinggi	Rulli Pratiwi Setiawan, S.T., M.Sc., Ph.D.	Perencanaan Wilayah dan Kota	PDUPT
13	Produksi MCC Dari Serbuk Gergaji Kayu Sengon Dengan Biodelignifikasi (menggunakan Trametes Versicolor) Dengan Pre-Treatment Sonikasi Dan Bleaching Hydrothermal	Penelitian Dasar Unggulan Perguruan Tinggi	Dr. Ir. Sumarno, M.Eng.	Teknik Kimia	PDUPT

II. PENELITIAN YANG TELAH MEMILIKI LUARAN

No	Judul Makalah	Nama Penulis	Jurnal	Tautan	Sitasi Makalah	Sitasi Dosen Dalam 5 Tahun	q JOURNAL	Kerja sama
1	Electrochemically-driven struvite recovery: Prospect and challenges for the application of magnesium sacrificial anode	Arseto Yekti Bagastyo , Anita Dwi Anggrainy, Khoiruddin Khoiruddin, Riang Ursada, IDAA Warmadewanthi, I Gede Wenten	Separation and Purification Technology	https://www.sciencedirect.com/science/article/abs/pii/S1383586622002131	3	605	Q1	Institut Teknologi Bandung
2	The Performance of Electrocoagulation Process in Removing Organic and Nitrogenous Compounds from Landfill Leachate in a Three-Compartment Reactor	Arseto Yekti Bagastyo , Fahrudin Sidik, Anita Dwi Anggrainy, Jr-Lin Lin, Ervin Nurhayati	Journal of Ecological Engineering	https://yadda.icm.edu.pl/baztech/element/bwmeta1.element/baztech-ab507156-ce9d-48df-8480-	1	605	Q2	Chung Yuan Christian University
3	Literature Study Of The Ability Of Fragrant Roots (Vetiveria zizanioides) And Sunflowers (Helianthus Annuus) On Phytoremediation Of Lead-Tainted Soil (Pb)	Alif Yoga, Bieby Voijant Tangahu	Journal of World Science	https://jws.rivierapublishing.id/index.php/jws/article/view/14	0	1661	-	
4	Range finding test and measurement of wet weight and dry weight of Vetiveria zizanioides as an initial stage of phytoremediation of soil contaminated with used lubricants	Bieby Voijant Tangahu , Alif Yoga Winata, Isni Arliyani	Plant Science Today	https://horizonepublishing.com/journals/index.php/PST/article/view/1442	0	1661	Q4	
5	Lead (Pb) removal from contaminated water using constructed wetland planted with Scirpus grossus: Optimization using response surface methodology (RSM) and assessment of rhizobacterial addition	Bieby Voijant Tangahu , Siti Rozaimah Sheikh Abdullah, Hassan Basri, Mushrifah Idris, Nurina Anuar, Muhammad Mukhlisin	Chemosphere	https://www.sciencedirect.com/science/article/abs/pii/S004565352103424X	4	1661	Q1	1. Universiti Kebangsaan Malaysia 2. Department of Civil Engineering, Politeknik Negeri Semarang
6	Assessing the effect of multiple variables on the production of bioflocculant by Serratia marcescens: Flocculating activity, kinetics, toxicity, and flocculation mechanism	Setyo Budi Kurniawan, Muhammad Fauzul Imron, Łukasz Sługoński, Kacper Nowakowski, Azmi Ahmad, Dhuroton Najiya, Siti Rozaimah Sheikh Abdullah, Ahmad Razi Othman, Ipung	Science of The Total Environment	https://www.sciencedirect.com/science/article/abs/pii/S0048969722026602	3	699	Q1	1. Universiti Kebangsaan Malaysia 2. Universitas Airlangga 3. University of Szczecin 4. Department of Polytechnic Education and Community College, Ministry of Higher Education, Malaysia

No	Judul Makalah	Nama Penulis	Jurnal	Tautan	Sitasi Makalah	Sitasi Dosen Dalam 5 Tahun Terakhir	q JOURNAL	Kerja sama
7	Treatment of real aquaculture effluent using bacteria-based biofloculant produced by <i>Serratia marcescens</i>	Setyo Budi Kurniawan, Muhammad Fauzul Imron, Siti Rozaimah Sheikh Abdullah, Ahmad Razi Othman, Ipung Fitri Purwanti , Hassimi Abu Hasan	Journal of Water Process Engineering	https://www.sciencedirect.com/science/article/abs/pii/S2214714422001519	4	699	Q1	1. Universiti Kebangsaan Malaysia 2. Universitas Airlangga
8	Anticipation methods for management of ship oil spills on the sea	Bieby Voijant Tangahu , Harmin Sulistiyaning Titah, Ipung Fitri Purwanti, Isni Ariyani, Widhowati Kesoema Wardhani, Kamarul Hidayat, Teguh Pairunan Putra, I Ketut Subartana	Journal of Material Cycles and Waste Management	https://link.springer.com/article/10.1007/s10163-022-01415-8	0	1661	Q2	Ministry of Transportation Republic of Indonesia
9	Practical limitations of bioaugmentation in treating heavy metal contaminated soil and role of plant growth promoting bacteria in phytoremediation as a promising alternative approach	Setyo Budi Kurniawan, Nur Nadhirah Ramli, Nor Sakinah Mohd Said, Jahira Alias, Muhammad Fauzul Imron, Siti Rozaimah Sheikh Abdullah, Ahmad Razi Othman, Ipung Fitri	Heliyon	https://www.sciencedirect.com/science/article/pii/S2405844022002833	6	699	Q1	1. Universiti Kebangsaan Malaysia 2. Universitas Airlangga
10	Carbon footprint of offshore platform in Indonesia using life cycle approach	Aditya Prana Iswara, Aulia Ulfah Farahdiba, Rachmat Boedisantoso , Anwar Rosyid, Sunu Priambodo, Lin-Han Chiang Hsieh	Environment, Development and Sustainability	https://link.springer.com/article/10.1007/s10668-022-02526-w	0	234	Q2	1. Carbon footprint of offshore platform in Indonesia using life cycle approach 2. Universitas Pembangunan Nasional Veteran Jawa Timur 3. Pertamina Hulu Energi West Madura Offshore 4. Chung Yuan Christian University,
11	DEVELOPING A MODEL OF SUSTAINABLE CONSTRUCTION FOR CONDOMINIUM PROJECTS IN DEVELOPING COUNTRIES; CASE OF INDONESIA	Aditya Sutantio, Nadjadji Anwar , I Putu Artama Wiguna, Erma Suryani	GEOMATE Journal	https://geomatejournal.com/geomate/article/view/3319	0	285	Q3	

No	Judul Makalah	Nama Penulis	Jurnal	Tautan	Sitasi Makalah	Sitasi Dosen Dalam 5 Tahun	q JOURNAL	Kerja sama
12	The Application of AHP to Determine the Priority Drainage System on Flood Mitigation in Surabaya–Indonesia	Yang Ratri Savitri, Ryuji Kakimoto, Rawshan Ara Begum, Nadjadji Anwar , Wasis Wardoyo, Erma Suryani	Journal of Disaster Research	https://www.jstage.jst.go.jp/article/jdr/17/3/17_431/_article/-char/ja/	0	285	Q2	1. Kumamoto University 2. Macquarie University, New South Wales, Australia
13	Green geopolymers cement with dry activator from geothermal sludge and sodium hydroxide (vol 15, 126143, 2021)	Himawan Tri Bayu Murti Petrus, Faaza Ihda Fairuz, Naala Sa'dan, Muhammad Olvianas, Widi Astuti, SN Jenie, Felix Arie Setiawan, Ferian Anggara, Januarti Jaya Ekaputri , I Bendiayasa	JOURNAL OF CLEANER PRODUCTION	https://scholar.google.co.id/scholar?hl=en&as_sdt=0,5&cluster=2163624658019733360	0	720	Q1	1. Universitas Gadjah Mada 2. Research Unit for Mineral Technology, Indonesian Institute of Sciences (LIPI) 3. Research Centre for Chemistry, Indonesia Institute of Sciences 4. Universitas Jember
14	Shear-bond behavior of self-compacting geopolymer concrete to conventional concrete	Januarti Jaya Ekaputri , Bobby Rio Indriyantho, Aylie Han, Buntara Sthenly Gan	Construction and Building Materials	https://www.sciencedirect.com/science/article/abs/pii/S0950061821038988	0	720	Q1	1. Universitas Diponegoro 2. Department of Architecture, College of Engineering, Nihon University
15	CRACKED SOIL BEHAVIOUR TREATED WITH GEOPOLYMER FOR RIVER EMBANKMENT USING A FUZZY C-MEANS METHOD	YERRY K FIRMANSYAH, RIA SOEMITRO , DWAD WARNANA, JANUARTI J EKAPUTRI	Journal of Engineering Science and Technology	https://link.springer.com/chapter/10.1007/978-3-030-87379-0_19	0	670	Q1	
16	Bioinspired cellulose-based membranes in oily wastewater treatment	Abdul Halim, Lusi Ernawati, Maya Ismayati, Fahimah Martak , Toshiharu Enomae	Frontiers of Environmental Science & Engineering	https://link.springer.com/article/10.1007/s11783-021-1515-2	1	151	Q1	1. Universitas Internasional Semen Indonesia 2. Institut Teknologi Kalimantan 3. Research Center for Biomaterials, National Research and Innovation Agency (BRIN) 4. University of Tsukuba, Japan
17	Species composition of Discomedusae jellyfish (Scyphozoa) in the coastal waters of Eastern Surabaya, East Java	Liza Gómez Daglio, Ria Hayati, Tiffany Coleman, Yoo-Min Han, Farid Muzaki , Maria Elena de Bellard, Dian Saptarini	Marine Biodiversity	https://link.springer.com/article/10.1007/s12526-021-01253-1	0	83	Q2	1. School of Natural Sciences, University of California 2. Biology Department, California State University Northridge

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18	Magnetic susceptibilities of surface sediments from estuary rivers in volcanic regions	Abd Mujahid Hamdan, Kartika Hajar Kirana, Fathul Hakim, Muhammad Iksan, Satria Bijaksana, Mariyanto Mariyanto , Teuku Muhammad Ashari, La Ode Ngkoimani, Hadi Kurniawan, Aditya Pratama, Mulyadi Abdul Wahid	Environmental Monitoring and Assessment	https://link.springer.com/article/10.1007/s10661-022-09891-z	1	176	Q2	1. Universitas Islam Negeri Ar-Raniry Banda Aceh 2. Universitas Padjadjaran 3. Halu Oleo University 4. LIPI
19	Analysis of Staged Construction of Containment Levees for Sidoarjo Mudflow	Andrew J Whittle, Michael V Martello, Luke Bastian, Ria Asih Aryani Soemitro , Trihanyndio Rendy Satrya, Dwa Desa Warnana, Mahendra Andiek Maulana	Journal of Geotechnical and Geoenvironmental Engineering	https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002816	0	670	Q1	Massachusetts Institute of Technology, Cambridge
20	Variability of Discharge Inflow in Wonorejo Reservoir, Indonesia	Nastasia F Margini, Wasis Wardoyo, Nadjadji Anwar	IOP Conference Series: Earth and Environmental Science	0	285	terindeks SCOPUS	Q4	
21	The design of fuel dryer in palm oil processing industries by utilizing the heat product of boiler based on computational fluid dynamic	Totok Soehartanto , I Putu Eka Widya Pratama, Alvin Davisa Putra	IOP Conference Series: Earth and Environmental Science	0	68	terindeks SCOPUS	Q4	
22	Development of post-disaster shelters (case study: Gampong Pande post-rehabilitation and reconstruction of the earthquake and tsunami disaster)	W Setyawan , P Setijanti, A Hayati	IOP Conference Series: Earth and Environmental Science	0	63	terindeks SCOPUS	Q4	
23	Rehabilitation of substandard housing program's benefits: lesson learned from Plandi Village, Jombang Regency	N Pusporini, WR Palupi, HR Santosa , D Septanti, S Cahyadi	IOP Conference Series: Earth and Environmental Science	0	207	terindeks SCOPUS	Q4	

No	Judul Makalah	Nama Penulis	Jurnal	Tautan	Sitasi Makalah	Sitasi Dosen Dalam 5 Tahun Terakhir	q JOURNAL	Kerjasama
24	Organoleptic study of the powdered and liquid snakehead fish (<i>Channa striata</i>) extracts with different shelf times	D Hidayati , DR Yuliani, N Abdulgani, N Jadid	IOP Conference Series: Earth and Environmental	0	330	terindeks SCOPUS	Q4	
25	The role of spatial data to support strategic environmental assessment for general spatial planning	RS Sianturi, E Umilia, H Idajati , C Susetyo, VK Siswanto, FH Febrianto, F Febri, FD Cahya	IOP Conference Series: Earth and Environmental Science	0	214	terindeks SCOPUS	Q4	1. Universitas Brawijaya 2. Jombang Regency Government

III. HKI DAN PATENT

No.	Judul Hak Cipta	Nama Pemilik	Nomor Aplikasi Hak Cipta	Tanggal Pendaftaran	Nomor Hak Cipta Granted	Tanggal Pemberian Hak Cipta	Status
1	Alat soil washer untuk remediasi tanah tercemar menggunakan teknologi soil washing	Bieby Voijant Tanggahu	337228	1-Apr-22	EC00202221776	1-Apr-22	
2	Enhanced Bioremediation tanah tercemar hidrokarbon dengan teknologi bioaugmentasi dan biostimulasi	Bieby Voijant Tanggahu	337170	1-Apr-22	EC00202221718	1-Apr-22	
3	Paten Sederhana PROSES PENGOLAHAN AIR TUA (AIR LIMBAH PABRIK GARAM) DENGAN MEMPERGUNAKAN METODE PENGUAPAN SECARA SERIAL	ITS (Totok Soehartanto)	S00202203470	23 Mei 2022			Permohonan Patent
4	Sistem Pembacaan Inclinator Otomatis	ITS (Dwi Oktavianto Wahyu Nugroho)	P00202203892	23 Maret 2022			Permohonan Patent
5	Smart Ozone Generator	ITS (Murry Raditya dkk)	A00202202006	22 Juni 2022			Permohonan Patent

IV. Produk Tepat Guna

No.	Nama Produk Penelitian	Judul Penelitian	Sumber Pendanaan	Ketua Peneliti
1	Sensor Station Gunung Semeru (Early Warning System) kerjasama NTUST, ITS, dan Pusat Vulkanologi dan Mitigasi Bencana Geologi,	Early Warning System (EWS)	NTUST	Murry Raditya, M.T. dan Dwi Oktavianto Wahyu Nugroho, MT
2	E-Learning Modul International : Developing of Waste Bank	Developing a learning module on waste banks in Indonesia	IGES Japan	Warmadewanthi
3	Smart Ozon Generator	Aplikasi Smart Sensor untuk Optimasi Pembubuhan Bahan Kimia Pada Proses Pengolahan Air Bersih	Lokal ITS	Ervin Nurhayati
4	SW4M (aplikasi recycling sampah)	Building a local sustainable supply chain network for recyclable materials for medium-sized cities	Herriot Watt University	Warmadewanthi
5	Alat Pendeteksi Kebocoran pada Pipa Distribusi Air Minum dengan Smart Sensor	Pembangunan Dashboard Deteksi Kebocoran Pipa Air Dengan Menggunakan Sensor Ultrasonic Water Flowmeter Terdistribusi	Lokal ITS	Ary Mazharuddin S.