**PROFIL DIREKTORAT PENELITIAN UNIVERSITAS GADJAH MADA**

1. **Dasar Hukum Pendirian dan Struktur Organisasi**

Pada tahun 2007, UGM menyatakan visi untuk menjadi Universitas Riset Kelas Dunia, yang berorientasi untuk memenuhi kebutuhan bangsa, berdasarkan Pancasila (Lima Prinsip Dasar Republik Indonesia). Mengingat pentingnya kegiatan penelitian, UGM telah mengambil beberapa langkah yang menempatkan banyak penekanan pada penelitian. Salah satu langkah ini menyatukan kegiatan penelitian dan pelayanan masyarakat menjadi satu lembaga yang disebut Lembaga Penelitian dan Pengabdian Kepada Masyarakat (LPPM).

Lembaga Penelitian dan Pengabdian Kepada Masyarakat atau LPPM UGM dilahirkan sebagai hasil dari penggabungan antara Lembaga Penelitian dan Lembaga Pengabdian Masyarakat, keduanya merupakan lembaga UGM. Dasar hukum untuk pembentukannya adalah SK Rektor nomor 47/P/SK/HT/2006. Melalui penggabungan dari dua lembaga tersebut, diharapkan hasil dari kegiatan penelitian yang dilakukan di UGM bermanfaat bagi masyarakat dan cukup dekat dengan kebutuhan para pemangku kepentingan.

Pada tahun 2015 UGM telah melakukan reorganiasi sebagai tindak lanjut dari peraturan Majelis Wali Amanah terkait Organisasi dan Tata Kelola (OTK) yaitu Peraturan Majelis Wali Amamah Universitas Gadjah Mada Nomor 4/SK/MWA/2014 tentang Organisasi dan Tata Kelola (*Good Governance*). Keberadaan OTK baru memunculkan sejumlah unit baru dan pergantian nama jabatan sesuai struktur di dalam OTK yang baru salah satunya adalah LPPM UGM. LPPM UGM mengalami reorganisasi menjadi Direktorat Penelitian, Direktorat Pengabdian kepada Masyarakat dan Badan Penerbitan dan Publikasi Secara struktural, posisi Direktorat Penelitian berada di bawah koordinasi Wakil Rektor Bidang Penelitian dan Pengabdian Masyarakat. Oleh karena itu, dalam melaksanakan kegiatannya Ditlit berkonsultasi dan melaporkan hasil penelitian ke Wakil Rektor Bidang Penelitian, dan Pengabdian Masyarakat. Berdasarkan Peraturan Rektor Nomor 1/P/SK/HT/2015 maka fungsi Direktorat Penelitian sebagai pengelola dan pembina kegiatan penelitian serta pendaftaran hasil penelitian untuk mendapatkan hak atas kekayaan intelektual.

Pada tahun 2023 UGM melaksanakan reorganisasi sebagai tindak lanjut dari Peraturan Majelis Wali Amamah Universitas Gadjah Mada Nomor 4/SK/MWA/2014 tentang Organisasi dan Tata Kelola (*Good Governance*) sebagaimana telah diubah terakhir dengan Peraturan Majelis Wali Amanah Universitas Gadjah Mada Nomor 3 Tahun 2023 tentang Perubahan Ketujuh atas Peraturam Majelis Wali Amanah Nomor 4/SK/MWA/2014 tentang Organisasi dan Tata Kelola (*Good Governance*). Keberadaan OTK baru memunculkan sejumlah unit baru dan pergantian nama jabatan sesuai struktur di dalam OTK yang baru termasuk Direktorat Penelitian. Berdasarkan Peraturan Rektor Nomor 10 Tahun 2023 tentang Organisasi dan Tata Kelola Univesitas Gadjah Mada, Direktorat Penelitian dipimpin oleh direktur yang berada di bawah koordinasi dan bertanggung jawab kepada Wakil Rektor Bidang Penelitian, Pengembangan Usaha, dan Kerja Sama. Dalam melaksanakan tugas, Direktorat Penelitian menyelenggarakan fungsi (a) pengelolaan program penelitian; (b) pengelolaan publikasi ilmiah dan kekayaan intelektual; dan (c) pelaksanaan fungsi lain yang diberikan oleh Wakil Rektor Bidang Penelitian.

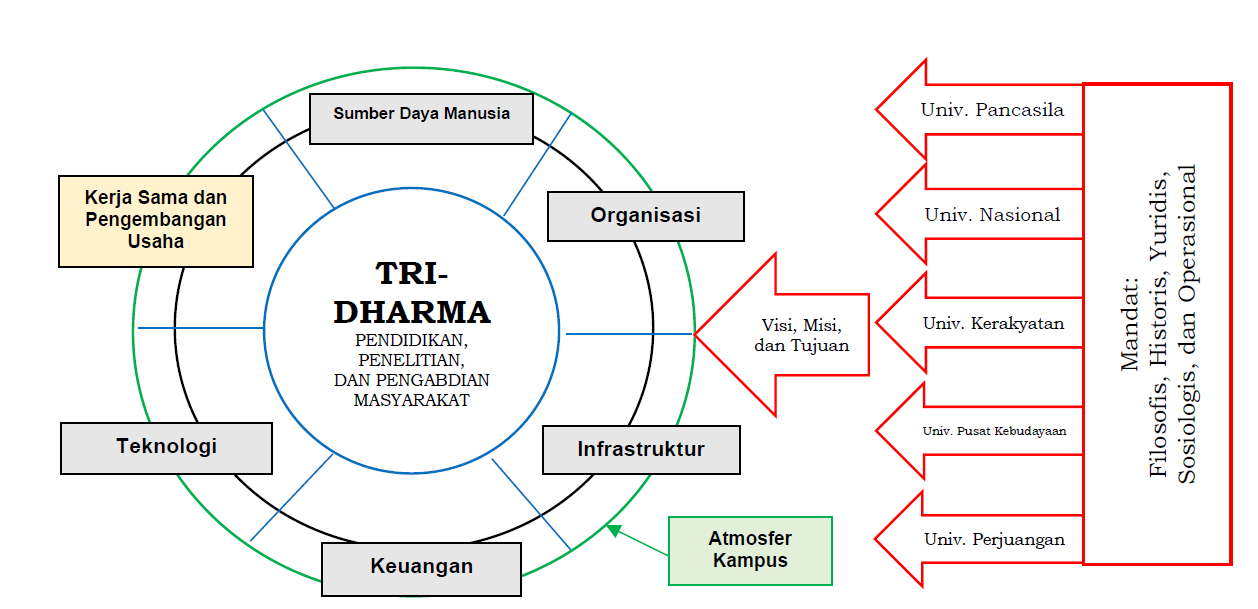
Susunan Organisasi Direktorat Penelitian terdiri atas Sekretariat, Subdirektorat Program Penelitian, Subdirektorat Publikasi Ilmiah dan Kekayaan Intelektual, dan Kelompok jabatan fungsional, sebagaimana gambar 1 berikut:

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**Gambar 1. Struktur Organisasi Direktorat Penelitian**

Sumber: Peraturan Rektor Nomor 10 Tahun 2023 tentang Organisasi dan Tata Kelola Univesitas Gadjah Mada

Dalam Rencana Induk Kampus Universitas Gadjah Mada Tahun 2017-2037 mengamanatkan bahwa bisnis utama (*core business*) UGM adalah Tridharma yang meliputi pendidikan, **penelitian**, dan pengabdian yang diimplementasikan secara setara dan integratif. Implementasi Tridharma tersebut ditopang oleh sistem pendukung yang meliputi tata kelola dan atmosfer kampus. Tata kelola terdiri atas beberapa komponen vital, yaitu sumber daya manusia, organisasi, keuangan, teknologi, infrastruktur, kerja sama, dan pengembangan usaha. Atmosfer adalah lingkungan akademik dan non-akademik yang inklusif, humanis, nyaman, aman, sehat, dan berkelanjutan.



**Gambar 2. Visulalisasi Arah Kebijakan**

Sumber: Peraturan Majelis Wali Amanah Nomor 1 Tahun 2021 tentang Rencana Induk Kampus UniversitasGadjah Mada Tahun 2017-2037

Konten strategi pengembangan penelitian adalah sebagai berikut:

1. UGM ke depan akan mengembangan penelitian transdisiplin, baik transdisiplin dalam artian subjek, tema, maupun utamanya pendekatan. Secara umum, penelitian trandisiplin adalah penelitian yang dilakukan oleh peneliti dari berbagai disiplin ilmu yang bekerja bersama untuk menciptakan inovasi metodologis, konseptual, teoretis, ataupun translasi baru yang mengintegrasikan dan bergerak di luar pendekatan disiplin tertentu untuk mengatasi masalah bersama, baik masalah keilmuan maupun masalah sosial. Contohnya penelitian trandisiplin terkait pencapaian *Sustainable Development Goals* (SDGs).
2. UGM ke depan akan mengembangkan penelitian-penelitian yang bersifat *new frontier*, *cutting edge*, *future science*, dan *breakthrough* untuk mendorong lompatan kemajuan bangsa Indonesia, baik dalam memanfaatkan bonus demografi dalam upayanya keluar dari *middle income trap* maupun dalam mewujudkan visi Indonesia 2045. Penelitian-penelitian inovatif ini juga akan meningkatkan daya saing UGM, khususnya di level regional dan global.
3. UGM ke depan juga akan mengembangkan penelitian-penelitian yang berbasis kekayaan yang dimiliki Indonesia, baik kekayaan keanekaragaman hayati maupun kekayaan sosial-budaya. Hal ini sejalan dengan konsep UGM mengakar kuat. Agenda penelitian berbasis kekayaan lokal ini akan dijabarkan menjadi sejumlah penelitian unggulan, misalnya mencakup: 1) keragaman fisik, wilayah, dan lahan, 2) hayati, 3) etnis, 4) sosial dan budaya, serta 5) spiritual. Kategori penelitian unggulan tersebut sifatnya dinamis yang dapat diubah dan diperbarui sesuai perkembangan konteks.

Dalam Rencana Strategis Universitas Gadjah Mada Tahun 2022-2024, tujuan strategis UGM dalam bidang penelitian adalah mewujudkan reputasi akademik yang unggul melalui penelitian translasional yang inovatif, produktif, dan berdampak bagi Masyarakat. Penelitian berwawasan lingkungan yang memberikan kontribusi nasional (*national impact oriented*) dan produktivitas pengembangan ilmu (*scientific oriented*) serta menjadi rujukan nasional dan internasional sehingga dapat memberikan solusi permasalahan masyarakat, bangsa, dan negara yang berbasis kearifan budaya lokal dengan melibatkan pemangku kepentingan eksternal. Strategi utama bidang penelitian adalah sebagai berikut:

1. Meningkatkan kualitas kelembagaan dan infrastruktur penelitian untuk pengembangan keilmuan dan solusi terhadap persoalan aktual di masyarakat serta diakui secara internasional;
2. Memperkuat UGM Science Techno Park sebagai *Transfer Technology Office* (TTO) dalam proses pemanfaatan inovasi;
3. Memperkuat ekosistem inovasi berbasis kolaborasi yang berkelanjutan untuk peningkatan kebermanfaatan;
4. Meningkatnya kinerja unit kegiatan usaha UGM;
5. Memperkuat dan mengubah pola pikir pengelolaan sistem keuangan yang berorientasi tujuan sekaligus meningkatkan pendanaan kreatif yang transparan, efektif, dan efisien;
6. Meningkatkan jejaring dengan mitra dalam dan luar negeri untuk meningkatkan reputasi yang didasarkan sinergi, persamaan visi dan misi serta kepentingan dengan mitra.
7. **Visi dan Misi Universitas Gadjah Mada**

Visi riset Universitas Gadjah Mada adalah Menuju terciptanya riset berkualitas dan berstandar internasional yang mampu mengatasi permasalahan dan meningkatkan kemandirian bangsa dan negara.

Misi riset Universitas Gadjah Mada adalah Membangun dan mengembangkan budaya riset, menyediakan fasililas riset, dan manajemen riset yang profesional untuk menghasilkan riset unggulan bagi pengembangan IPTEK serta kesejahteraan manusia serta kelestarian lingkungan yang bermanfaat untuk membantu penyelesaian masalah masyarakat, bangsa, dan negara.

1. **Pimpinan/Manajemen**

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   1. Publikasi

| No | Tahun | Judul | DOI |
| --- | --- | --- | --- |
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| 4 | 2024 | Performance of Spray Scrubber for Tar Removal and Energy Density of CPG from Rice Husk Gasification | 10.18280/ijht.420409 |
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| 92 | 2022 | Kinetics and Adsorption Equilibrium Study of Free Fatty Acid (FFA) from Crude Palm Oil (CPO) on Anionic Resin | 10.22146/ajche.70319 |
| 93 | 2022 | Highly Selective Bio-hydrocarbon Production using Sidoarjo Mud Based-Catalysts in the Hydrocracking of Waste Palm Cooking Oil | 10.9767/bcrec.17.4.15472.712-724 |
| 94 | 2022 | Mesoporous Silica from Parangtritis Beach Sand Templated by CTAB as a Support of Mo Metal as a Catalyst for Hydrocracking of Waste Palm Cooking Oil into Biofuel | 10.1007/s12649-021-01559-y |
| 95 | 2022 | Genetic variability of pepper mutants ( Piper nigrum l.) based on morphological and RAPD markers | 10.1088/1755-1315/974/1/012039 |
| 96 | 2022 | Performance evaluation of four-wheel driving wheel tractor with diesel engine using biodiesel fuel | 10.1088/1755-1315/963/1/012001 |
| 97 | 2022 | Specific alleles as individual molecular markers and its association for sustainable breeding program in coconut palm | 10.1088/1755-1315/974/1/012008 |
| 98 | 2022 | Hydrocracking optimization of palm oil to bio-gasoline and bio-aviation fuels using molybdenum nitride-bentonite catalyst | 10.1039/d2ra02438a |
| 99 | 2022 | Palm oil plantation transportation management improving using economic information systems and Qm-Windows | 10.21003/EA.V198-02 |
| 100 | 2021 | Performances of Bali cow kept by the palm oil farmers in Rokan Hulu, Riau | 10.1088/1755-1315/902/1/012053 |
| 101 | 2021 | The preparation of merbau wood waste ash-based catalyst and its utilization for biodiesel production from low-grade palm oil | 10.31788/RJC.2021.1426238 |
| 102 | 2021 | Authentication analysis of milkfish fish oil using the combination of FTIR spectroscopy and chemometrics | 10.26656/fr.2017.5(2).607 |
| 103 | 2021 | Growth and Yield of Soybean as a Response of the Fertilization of NPK Compound Produced with Spent and Deoiled Bleaching Earth Filler | 10.20961/carakatani.v36i1.35682 |
| 104 | 2021 | How does willingness and ability to pay of palm oil smallholders affect their willingness to participate in Indonesian sustainable palm oil certification? Empirical evidence from North Sumatra | 10.1515/opag-2021-0019 |
| 105 | 2021 | Can edible oils, as practical phase change materials, be used for body cooling after physical work in a hot–humid environment? | 10.1002/hfm.20925 |
| 106 | 2021 | Liquid Smoke as Fat Protector and Its Effect on Rumen Fermentation Characteristics and Microbial Activity | 10.5398/TASJ.2021.44.2.152 |
| 107 | 2021 | Adulteration of Gabus (Channa striata) fish oil with corn oil and palm oil: The use of FTIR spectra and chemometrics | 10.26656/fr.2017.5(2).368 |
| 108 | 2021 | Climate anomaly and palm oil price volatility in Indonesia | 10.1088/1755-1315/637/1/012039 |
| 109 | 2021 | Understanding the palm oil smallholders characteristics and their compliance towards the Indonesian Sustainable Palm Oil (ISPO): A case study in North Sumatera, Indonesia | 10.1088/1755-1315/637/1/012041 |
| 110 | 2021 | Potential and Feasibility Analysis of Biomass Energy from Palm Oil Mills on North Penajam Paser Regency Region | 10.4028/www.scientific.net/AST.104.73 |
| 111 | 2021 | Biomass composition of microalgae local mixed culture using POME (palm oil mill effluent) medium |  |
| 112 | 2021 | Effects of Spent and Deoiled Bleaching Earth Filler-Based NPK Fertilization on the Soil Nutrient Status and Growth of Soybean (Glycine max (L.) Merrill) | 10.20961/carakatani.v36i2.43847 |
| 113 | 2021 | Effect of different cooking methods on chemical composition, nutritional values, and sensory properties of Jack bean (Canavalia ensiformis) tempe | 10.26656/fr.2017.5(3).530 |
| 114 | 2021 | Conversion of polystyrene plastic waste and used palm oil co-reactant into liquid fuel using AL-MCM-41/ceramics catalyst | 10.31788/RJC.2021.1426056 |
| 115 | 2021 | Does RSPO certification affects the amount of CO2 emission in Indonesia? | 10.1088/1755-1315/637/1/012051 |
| 116 | 2021 | An Overview and Future Outlook of Indonesian Agroforestry: a Bibliographic and Literature Review | 10.1051/e3sconf/202130507002 |
| 117 | 2021 | Development of surfactant from lignin for enhanced oil recovery |  |
| 118 | 2021 | Export intensity and competitiveness of Indonesia's crude palm oil to main destination countries | 10.17221/371/2020-AGRICECON |
| 119 | 2021 | Analysis of potential and feasibility of riogas energy from palm oil mill effluent in penajam paser utara regency | 10.1063/5.0063457 |
| 120 | 2021 | Preparation and evaluation of alpha-cellulose sulfate based new heterogeneous catalyst for production of biodiesel | 10.1002/app.49658 |
| 121 | 2021 | Adsorption of cd(Ii) ion using α-cellulose immobilized humic acid with crosslinker agent epichlorohydrin | 10.4028/www.scientific.net/KEM.884.39 |
| 122 | 2021 | Spatial distribution and characteristics of destructive activities in Tahura Gunung Menumbing, West Bangka | 10.1088/1755-1315/623/1/012045 |
| 123 | 2020 | Analysis of biogas production made from oil palm empty fruit bunches (OPEFB) using anaerobic batch reactor (ABR) | 10.1088/1755-1315/425/1/012033 |
| 124 | 2020 | Potential recovery of sugar-derivative compounds from hydrothermal treatment of oil palm empty fruit bunch | 10.1088/1757-899X/736/2/022048 |
| 125 | 2020 | The employment of fourier transform infrared spectroscopy (FTIR) and chemometrics for analysis of candlenut oil in binary mixture with grape seed oil | 10.26656/fr.2017.4(1).279 |
| 126 | 2020 | Using visible spectral-index as alternative methods for identifying levels of Ganoderma Boninese infection | 10.1088/1755-1315/500/1/012067 |
| 127 | 2020 | Kinetic model of crude palm oil hydrocracking over ni/mo zro2 –pillared bentonite catalyst | 10.3311/PPch.14765 |
| 128 | 2020 | The employment of FTIR spectroscopy and chemometrics for authentication of pumpkin seed oil from sesame oil | 10.26656/fr.2017.4(1).198 |
| 129 | 2020 | Production and characterization of PVA/alginate composite filament with cellulose from oil palm empty fruit bunches | 10.1088/1755-1315/472/1/012015 |
| 130 | 2020 | Product Distribution and Characteristic from Pyrolysis of Indonesia Palm Oil Residues | 10.1088/1757-899X/736/2/022061 |
| 131 | 2020 | Investigation of the pyrolysis characteristics and kinetics of oil-palm solid waste by using coats–redfern method | 10.1177/0144598719877759 |
| 132 | 2020 | Combination of Fuzzy C-Means and Simple Additive Weighting Using Partition Coefficient Index | 10.1109/ICVEE50212.2020.9243282 |
| 133 | 2020 | Performance comparison of Ni-Fe loaded on NH2-functionalized mesoporous silica and beach sand in the hydrotreatment of waste palm cooking oil | 10.1016/j.jece.2020.104477 |
| 134 | 2020 | Investigation of the slow pyrolysis kinetics of oil palm solid waste by the distributed activation energy model | 10.1080/17597269.2017.1387750 |
| 135 | 2020 | Development of a methodology based on headspace-gas chromatography-ion mobility spectrometry for the rapid detection and determination of patin fish oil adulterated with palm oil | 10.1016/j.arabjc.2020.08.026 |
| 136 | 2020 | The Study of Immobilized Media and Ni Ion Addition Effects on COD Removal of POME Using Anaerobic Filter Reactor | 10.1007/s12649-019-00926-0 |
| 137 | 2020 | The Effect of Spent Bleaching Earth Filler-Based NPK Fertilization on Proline, Growth and Yield of Maize | 10.20961/carakatani.v35i1.34166 |
| 138 | 2020 | Characterization of Biosurfactant Production by Klebsiella variicola BF1 for Hydrocarbon Degradation Enhancement | 10.1063/5.0015924 |
| 139 | 2020 | Relation of groundwater level and rainfalls in the peat swamp forest, burned peatland and mixed plantation areas of Kampar Peninsula, Riau Province | 10.1088/1755-1315/533/1/012012 |
| 140 | 2020 | The Usage of Palm Oil Mill Effluent as a Cultivation Medium of Arthrospira maxima Setchell et Gardner | 10.1063/5.0016177 |
| 141 | 2020 | Production of edible fungal (Rhizopus delemar CBS 145940) biomass from organosolv-pretreated oil palm empty fruit bunch (OPEFB) in submerged fermentation | 10.1088/1757-899X/991/1/012041 |
| 142 | 2020 | Advancing biodiesel production from microalgae Spirulina sp. By a simultaneous extraction-transesterification process using palm oil as a co-solvent of methanol | 10.1515/chem-2020-0133 |
| 143 | 2020 | Kinetics of microwave co-pyrolysis of palm oil industry solid waste and polyethylene terephthalate waste | 10.37934/ARFMTS.71.1.7282 |
| 144 | 2020 | Application of Response Surface Methodology for the Optimization of β-Carotene-Loaded Nanostructured Lipid Carrier from Mixtures of Palm Stearin and Palm Olein | 10.1002/aocs.12310 |
| 145 | 2020 | The use of FTIR spectroscopy in combination with chemometrics for the authentication of milk fat from palm oil | 10.1088/1757-899X/980/1/012025 |
| 146 | 2020 | Smallholder farmers' perception on oil palm agroforestry | 10.1088/1755-1315/449/1/012056 |
| 147 | 2020 | The effect of tropical peat land-use changes on plant diversity and soil properties | 10.1007/s13762-019-02579-x |
| 148 | 2020 | Formulation, characterization and stability of o/w nanoemulsion containing rice bran oil prepared by emulsion phase inversion | 10.26656/fr.2017.4(4).409 |
| 149 | 2020 | The impact of hydraulic retention time on the biomethane production from palm oil mill effluent (Pome) in twostage anaerobic fluidized bed reactor | 10.14710/ijred.2021.20639 |
| 150 | 2020 | Conflict management in Indonesia’s post-authoritarian democracy: resource contestation, power dynamics and brokerage | 10.1080/14678802.2019.1705074 |
| 151 | 2020 | Agriculture development of Lampung Province based on agropolitan zonation | 10.1088/1755-1315/451/1/012035 |
| 152 | 2020 | Calf production of Bali cows in cattle-oil palm plantation integration system in Riau Province Indonesia | 10.1088/1755-1315/518/1/012015 |
| 153 | 2020 | Improved bubbling for membrane fouling control in filtration of palm oil mill effluent anaerobic digester sludge | 10.1016/j.jwpe.2020.101350 |
| 154 | 2020 | Heating characteristics of palm oil industry solid waste and plastic waste mixture using a microwave oven | 10.22146/ajche.58503 |
| 155 | 2020 | Production of valuable chemicals from oil palm biomass using hot-compressed water method | 10.1007/s10163-020-01073-8 |
| 156 | 2020 | Attenuated total reflectance-FTIR spectra combined with multivariate calibration and discrimination analysis for analysis of patchouli oil adulteration | 10.22146/ijc.36955 |
| 157 | 2020 | Nanocellulose-based fibres derived from palm oil by-products and their in vitro biocompatibility analysis | 10.1080/00405000.2019.1694353 |
| 158 | 2020 | In vitro digestibility and ruminal fermentation profile of ruminantdiet in response to substitution of mixture feedstuff protected |  |
| 159 | 2020 | Spatio-temporal pattern analysis of forest fire event in South Kalimantan using integration remote sensing data and GIS for forest fire disaster mitigation | 10.1088/1755-1315/540/1/012011 |
| 160 | 2020 | Electronic nose for early detection of basal stem rot caused by Ganoderma in oil palm | 10.1088/1755-1315/468/1/012029 |
| 161 | 2020 | Analysis of sunflower oil in ternary mixture with grapeseed oil and candlenut oil in the ternary mixture system using ftir spectroscopy and chemometrics | 10.26656/FR.2017.4(5).023 |
| 162 | 2020 | Palm stearin and olein binary mixture incorporated into nanostructured lipids carrier: Improvement food functionality for micronutrient delivery | 10.1111/jfpp.14761 |
| 163 | 2020 | A catalyst reusability study in palm fatty acid distillate and glycerol esterification using multi-criteria decision analysis and reaction kinetics approach | 10.29037/AJSTD.612 |
| 164 | 2020 | Authentication analysis of snakehead fish oil using combination of ftir spectra and chemometrics | 10.31838/ijpr/2021.13.01.025 |
| 165 | 2020 | Synthesizing green Chitosan-magnetic composite particles for palm oil mill effluent (POME) pre-treatment: A comprehensive review | 10.1016/j.matpr.2020.07.266 |
| 166 | 2020 | Recovery of high purity lignin and digestible cellulose from oil palm empty fruit bunch using low acid-catalyzed organosolv pretreatment | 10.3390/agronomy10050674 |
| 167 | 2020 | Utilization of silica from indonesian solid wastes as catalyst materials | 10.4028/www.scientific.net/KEM.849.72 |
| 168 | 2020 | Biochemical Response of Hybrid Maize (Zea mays L.) to NPK Fertilization Based on Spent Bleaching Earth in Field Scale | 10.1051/e3sconf/202014201004 |
| 169 | 2020 | The employment of FTIR spectroscopy and chemometrics for authentication of essential oil of curcuma mangga from candle nut oil | 10.26656/fr.2017.4(2).313 |
| 170 | 2020 | Production cost approach and material flow cost accounting as a step towards increasing responsibility, efficiency, and sustainability (RES): The case of palm oil mill in Banten Indonesia | 10.1088/1755-1315/425/1/012042 |
| 171 | 2019 | Analysis of palm oil as oil adulterant in olive and pumpkin seed oils in ternary mixture systems using ftir spectroscopy and chemometrics | 10.22159/ijap.2019v11i5.34274 |
| 172 | 2019 | Composite liquid insulators characteristics of palm and diala-b oil as transformer oil | 10.1109/ICOIACT46704.2019.8938453 |
| 173 | 2019 | Enzymatic glycerolysis–interesterification of palm stearin–olein blend for synthesis structured lipid containing high mono- and diacylglycerol | 10.1007/s10068-018-0462-6 |
| 174 | 2019 | Weaning weight of Brahman cross (BX) and Bali cattle under intensive and oil palm plantation-cattle integrated systems | 10.1088/1755-1315/387/1/012122 |
| 175 | 2019 | The effectiveness of pH adjustment and controlled oxygen injection to enhance acidogenic performance in two stage anaerobic digestion | 10.1063/1.5094994 |
| 176 | 2019 | Activation of Coconut Shell - Randu Wood Biochar and Its Use as Heterogeneous Catalyst Support for Biodiesel Production | 10.1088/1757-899X/543/1/012064 |
| 177 | 2019 | Effect of three plant-based shortenings and lard on cookie dough properties and cookies quality |  |
| 178 | 2019 | The effect of concentrate supplementation during pregnancy on calving performance in oil palm-cattle integrated system | 10.1088/1755-1315/387/1/012064 |
| 179 | 2019 | Performance of anaerobic reactor with media support and Ni addition for palm oil mill effluent treatment | 10.1063/1.5095002 |
| 180 | 2019 | Optimization of bentonite liquid detergent for cleansing of extreme najs using simplex lattice design | 10.22159/ijap.2019v11i1.30367 |
| 181 | 2019 | Effect of three plant-based shortenings and lard on cookie dough properties and cookies quality |  |
| 182 | 2019 | Authentication of patin (pangasius micronemus) fish oil adulterated with palm oil using ftir spectroscopy combined with chemometrics | 10.22159/ijap.2019v11i3.30947 |
| 183 | 2019 | Determining transparency on material and energy flow in Palm Oil industry | 10.1088/1755-1315/355/1/012015 |
| 184 | 2019 | Cradle to gate LCA to enhance program for pollution control, evaluation and rating (PROPER) in palm oil industry | 10.1088/1755-1315/365/1/012067 |
| 185 | 2019 | Estimation of production and quality of forage under palm oil plantations in different sections | 10.1088/1755-1315/387/1/012014 |
| 186 | 2019 | Hydrothermal treatment of oil palm biomass in batch and semi-flow reactors | 10.1016/j.egypro.2019.01.182 |
| 187 | 2019 | Protected area effectiveness in a sea of palm oil: A Sumatran case study | 10.1016/j.biocon.2019.03.018 |
| 188 | 2019 | Seasonal effect on productivity of Bali cows in oil palm plantation in Riau Province, Indonesia | 10.1088/1755-1315/387/1/012075 |
| 189 | 2019 | Oil palm agroforestry: An alternative to enhance farmers' livelihood resilience | 10.1088/1755-1315/336/1/012001 |
| 190 | 2019 | Physiological conditions of Bali cattle based on daily temperature-humidity index (THI) in oil palm plantation | 10.1088/1755-1315/387/1/012125 |
| 191 | 2019 | In vitro digestibility of ruminant diet in response to protected feed substitution | 10.1088/1755-1315/387/1/012113 |
| 192 | 2019 | Effect of temperature change of liquid isolator based on composite diala b oil and palm oil as transformer oil | 10.1109/ICOIACT46704.2019.8938485 |
| 193 | 2019 | Bio Capacity Approach in Land Use at Border Indonesia Malaysia | 10.1088/1742-6596/1175/1/012131 |
| 194 | 2019 | Preparation of Monoacylglycerol Derivatives from Indonesian Edible Oil and Their Antimicrobial Assay against Staphylococcus aureus and Escherichia coli | 10.1038/s41598-019-47373-4 |

* 1. Paten

| No | Nomor Permohonan | Kategori | Judul | Pemegang Paten |
| --- | --- | --- | --- | --- |
| 1 | S00202401835 | Paten | Konversi Minyak Goreng Sawit Bekas Menjadi Biogasolin Terkatalisis Nanokatalis NiMo/SO4-SiO2 yang Disintesis Secara Hidrotermal | UGM |
| 2 | S00202401837 | Paten | Nanokatalis Silika Mesopori Tersulfatasi Terimpregnasi Logam Nikel (Ni/SO4-SiO2) Secara Hidrotermal dan Performanya dalam Hydrotreatment Minyak Goreng Sawit Bekas Menjadi Bahan Bakar Fraksi Bensin | UGM |
| 3 | P00202402254 | Paten | Interesterifikasi Enzimatis Minyak Sawit Merah Menggunakan Lipozyme TL IM | UGM |
| 4 | P00202409076 | Paten | Produk Lipida Terstruktur dari Interesterifikasi Enzimatis Minyak Sawit Merah dan Minyak Sacha Inchi | UGM |
| 5 | P00202306799 | Paten | Proses Pembuatan Bahan Bakar Biojet dari Minyak Kelapa Sawit Secara Hidrorengkah Double Decker Menggunakan Katalis Logam Kobalt dan Logam Molibdenum Diimpregnasikan pada Karbon Aktif | UGM |
| 6 | S00202307903 | Paten | Formulasi Pakan Ayam Broiler dengan Menggunakan Bungkil Inti Sawit yang Disuplementasi Enzim dan Asam Amino | UGM |
| 7 | P00202205986 | Paten | Katalis Ni-NH2/Lumpur Lapindo Terkalsinasi: Proses Pembuatan dan Aplikasinya pada Hidrorengkah Minyak Goreng Kelapa Sawit Bekas Menjadi Biofuel | UGM |
| 8 | P00202207430 | Paten | Katalis NiPt-NH2/Lumpur Lapindo Terkalsinasi: Proses Pembuatan dan Aplikasinya Sebagai Katalisis Hidrorengkah Minyak Goreng Kelapa Sawit Bekas Menjadi Biofuel | UGM |
| 9 | P00202207598 | Paten | Pakan Konsetrat Untuk Ternak Ruminansia Berbasis Padatan Lumpur Sawit | UGM |
| 10 | P00202207605 | Paten | Mesin Pengering Campuran Lumpur Sawit | UGM |
| 11 | P00202209591 | Paten | Proses Impregnasi Logam Ni(A) pada Pasir Pantai Parangtritis (PP) dan Aplikasinya untuk Hidrorengkah Minyak Kelapa Sawit dan Malapari Menjadi Biofuel | UGM |
| 12 | P00202209595 | Paten | Proses Impregnasi Logam Ni(B) pada Pasir Pantai Parangtritis (PP) dan Aplikasinya untuk Hidrorengkah Minyak Kelapa Sawit Menjadi Biofuel | UGM |
| 13 | P00202209596 | Paten | Katalis Pasir Pantai Parangtritis (PP): Proses Pembuatan dan Aplikasinya pada Hidrorengkah Minyak Kelapa Sawit Menjadi Biofuel | UGM |
| 14 | P00202211411 | Paten | Pembuatan Pupuk Granul Silika dari Fly Ash dan Abu Sawit dengan Menggunakan Metode Wet Granulation | UGM |
| 15 | P00202103449 | Paten | Katalis Ni(5) Terdeposisi Pada Lumpur Lapindo untuk Konversi Minyak Sawit Bekas Menjadi Biofuel: Proses Pembuatan dan Aplikasinya | UGM |
| 16 | P00202104949 | Paten | Katalis Ni(10) Terimpregnasi pada Lumpur Lapindo: Proses Sintesis dan Aplikasinya pada Hidrorengkah Minyak Sawit Bekas | UGM |
| 17 | P00202107019 | Paten | Nanostructured Lipid Carriers (NLC) Kaya Fitonutrien Sawit dari Kombinasi Minyak Sawit Merah, Palm Stearin, dan Palm Kernel Stearin Serta Metode Pembuatannya | UGM |
| 18 | P00202000198 | Paten | Nanoemulsi Berbahan Dasar Kombinasi Minyak Sawit, Virgin Coconut Oil dan Minyak Bekatul Serta Metode Pembuatannya | UGM |
| 19 | P00201907460 | Paten | Formula Pupuk Kompos Limbah Peternakan dan Perkebunan Kelapa Sawit | UGM |
| 20 | P00201907458 | Paten | Pakan Konsentrat untuk Sapi Breeding Berbasis Bungkil Inti Sawit | UGM |
| 21 | P00201909890 | Paten | Ransum Konsentrat untuk Ternak Ruminansia Berbahan Pelepah Sawit yang Telah Digunakan Sebagai Media Tanam Jamur | UGM |
| 22 | P00201910706 | Paten | Metode Pembuatan Sediaan Agen Biokontrol Jamur Patogen Tanaman Sawit | UGM |

* 1. Penghargaan Riset (Inovasi)

1. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2024, Sub Kategori Institusi dengan Total SINTA Skor Terbaik Periode 2021 – 2023 (SINTA *Award*), Kategori *Gold Winner*;
2. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2024, Sub Kategori Perguruan Tinggi dengan Kerja Sama Internasional Terbaik, Kategori *Silver Winner*;
3. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2024, Sub Kategori Perguruan Tinggi dengan Kerja Sama Pemerintah atau LSM Terbaik, Kategori *Gold Winner*;
4. Top Kolaborator BRIN 2024 Nomor 4 dengan subject penelitian utama bidang: *agricultural and biological science* dan *environmental science*;
5. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2023, Anugerah Prioritas Nasional, Kategori Perguruan Tinggi Dengan Inovasi Terbanyak;
6. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2023, kategori PTN-BH, sub kategori Laporan Kerja Sama Terbaik;
7. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2023, kategori PTN-BH, sub kategori Laporan Kerja Sama Terbaik;
8. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2023, kategori PTN-BH, sub kategori Kerja Sama Pemerintah dan NGO Terbaik;
9. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2023, kategori PTN-BH, sub kategori Kerja Sama Internasional Terbaik;
10. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2022, Anugerah Prioritas Nasional, Sub kategori perguruan tinggi dengan kemandirian di bidang Farmasi terbaik untuk mendukung kemandirian kesehatan Indonesia (vaksin Merah Putih);
11. Anugerah Riset, Teknologi, dan Pengabdian kepada Masyarakat 2022, Anugerah Riset Teknologi dan Pengabdian Masyarakat, Sub Kategori Institusi dengan jumlah proposal penelitian terbanyak yang mendapatkan bantuan pendanaan DRTPM Periode tahun 2020-2022;
12. Penghargaan World Intellectual Property Organization (WIPO) Intellectual Property Enterprize Medal 2022;
13. Penghargaan Permohonan Paten Top 10 Tertinggi di Indonesia Kategori Perguruan Tinggi Tahun 2022;
14. Penghargaan Lembaga Penelitian dengan Administrasi terbaik dalam acara Webinar Pekan Riset Sawit Indonesia 2021 dari Badan Pengelola Dana Perkebunan Kelapa Sawit;
15. Penghargaan Permohonan Paten Tertinggi Kategori Perguruan Tinggi Tahun 2019, didapatkan pada tahun 2020;
16. Penghargaan Permohonan Pencatatan Hak Cipta Tertinggi Kedua Kategori Perguruan Tinggi Tahun 2019, didapatkan pada tahun 2020.
    1. Sertifikasi Mutu Lembaga (misalnya, sertifikat ISO 9001 tentang *Sistem Manajemen Mutu*)

ISO 17025:2005 hasil penelitian dari laboratorium ini dinyatakan valid dengan standar internasional.