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Yusuf, Prihatin, Suci

FMIPA

Department of Physics
Faculty of Mathematics and Natural Sciences
Universitas Indonesia



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2024
EDITION

Staff Handbook

Doctoral Programme
in Materials Science

STAFF PROFILE

Name	<i>Prof. Dr. Azwar Manaf, M.Met.</i>		
Position	<i>Professor of Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctor</i>	<i>Department of Engineering Materials The University of Sheffield, UK</i>	<i>1992</i>
	<i>Master</i>	<i>School of Materials, The University of Sheffield, UK</i>	<i>1988</i>
	<i>Master</i>	<i>Department of Materials and Metallurgy, Katholieke University of Leuven, Belgium</i>	<i>1987</i>
	<i>Undergraduate Degree (Physics)</i>	<i>Department of Physics, Gadjah Mada University, Indonesia</i>	<i>1982</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor</i>	<i>UI</i>	<i>2020 - now</i>
	<i>Certified Lecturer</i>	<i>UI</i>	<i>2018 - now</i>
	<i>Head of Department of Physics</i>	<i>UI</i>	<i>2006 - 2008</i>
	<i>Head of Graduate Programme in Materials study</i>	<i>UI</i>	<i>2000 – 2006</i>
	<i>DKI Regional Research Council</i>		<i>2010 - 2018</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Enhancement of Permanent Magnet Magnetic Properties through Nanocomposite Structural Engineering of SrFe₁₂O₁₉/CoFe₂O₄</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 60.000.000</i>	
	<i>Name of project or research focus</i>	<i>Experimental Study of Nanocomposite Magnetic Materials, Radar Wave Absorbers, and Conductive Polymers Based on Pyrrole-Aniline.</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 270.000.000</i>	

<i>Name of project or research focus</i>	<i>Synthesis and Characterization of High-Layer Capability Polymer Materials for Flame Retardant Applications and Electromagnetic Wave Absorber on Metal and Non-Metal Substrate Surfaces</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 99.789.300</i>
<i>Name of project or research focus</i>	<i>Enhancement of Magnetic Properties in SrFe₁₂O₁₉/CoFe₂O₄ Nanocomposites Through Particle Size Structural Engineering Using Mechanical Alloying and High-Power Ultrasonic Methods</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 24.000.000</i>
<i>Name of project or research focus</i>	<i>Mechanism of Coercivity Enhancement in Pr(15-x)Dy_xFe₇₇B₈ (at.%) Permanent Magnet Alloy Systems Through Diffusion and Substitution Mechanisms</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 34.400.000</i>
<i>Name of project or research focus</i>	<i>Effect of Magnetic Nanoparticle Coupling Fe-Co and Sr(Fe,Mn,Ti)₁₂O₁₉ on the Absorption Coefficient of Radar Wave Absorber Materials</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 34.400.000</i>
<i>Name of project or research focus</i>	<i>Improvement of Electromagnetic Wave Absorption Properties Through Microstructure and Cell Structure Engineering of Absorber Materials in BaFe_{12-x}Zn_x/2Sn_x/2O₁₉ Systems (x:0;0.1;0.2;0.3)</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 20.000.000</i>
<i>Name of project or research focus</i>	<i>Effect of Two-Stage Heat Treatment Processes on the Selective Reduction of Laterite Nickel Ore of Limonite and Saprolite Types as Modeling Initiation</i>

	<p><i>Period and any other information</i> <i>Research grant from UI, 2020</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 20.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Application of Microemulsion Method in the Fabrication of Monocrystalline Iron-Cobalt Alloy (Fe-Co) Particles</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 15.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Green Synthesis of Brotowali Stem Extract - Zirconia Nanoparticles as Biocidal and Anti-Corrosion Materials</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 80.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Role of Nano FeCo Particles in SrIn0.1Fe11.9-xZnx/2Snx/2O19 Matrix as Radar Wave Absorbers</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 80.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Development of Bioactive Compounds from Andrographis paniculata extracts for Anti-Biofilmand Green Anti-Corrosion Materials"</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2023</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 22.500.000</i></p>
	<p><i>Name of project or research focus</i> <i>Development of Tinospora cordifolia Extract as an Anti-Microbial Corrosion Material in Sea Water Media</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2024</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 22.500.000</i></p>
	<p><i>Name of project or research focus</i> <i>Optimization of Plant Extract Potential as a New Green Biocide for Corrosion Prevention on API 5L Material</i></p>

	<p><i>Period and any other information</i> <i>Research grant from DIKTI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 50.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Advanced Technology for High-Selectivity and Low-Environmental-Impact Laterite Mineral Processing</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2023</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 134.900.000</i></p>
	<p><i>Name of project or research focus</i> <i>Nickel Purification from Laterite Using an Eco-Friendly Modified Caron Process as Raw Material for Nickel-Based Batteries</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 50.000.000</i></p>
Industry collaborations over the last 5 years	<p><i>Project title</i></p> <p><i>Partners</i></p>
Patents and proprietary rights	<p><i>Title</i> <i>Year</i></p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> <i>81</i></p> <p><i>Author(s)</i> <i>Zainal, Y.B., Dedi, D. and Manaf, A.</i></p> <p><i>Title</i> <i>Microstructure and microwave absorption characteristics of BaTiO₃-CoFe₂O₄ composites</i></p> <p><i>Any other information</i> <i>Trans Tech Publications Ltd. 2020</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>In Key Engineering Materials (Vol. 855, pp. 322-329)</i></p> <p><i>Author(s)</i> <i>Ramadhan, M.R., Ramli, I., Sari, D.P., Kurniawan, B., Manaf, A., Mohamed-Ibrahim, M.I., Shukri, S. and Watanabe, I.</i></p> <p><i>Title</i> <i>Spin alignment studies on the muon-site determination in la₂cuo₄</i></p> <p><i>Any other information</i> <i>Trans Tech Publications Ltd. 2020</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>In Key Engineering Materials (Vol. 860, pp. 154-159)</i></p>

	<p><i>Author(s)</i> Taryana, Y., Wisnu, A.A., Mahmudin, D., Wahyu, Y. and Manaf, A.</p> <p><i>Title</i> Structural, Magnetic and Microwave Absorption Characteristics of $Ba_{1-x}La_xFe_{12}O_{19}$ ($x= 0; 0.1; 0.2; 0.3; 0.5; 0.7$).</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Key Engineering Materials, 855, pp.261-267</p>						
	<p><i>Author(s)</i> Bahfie, F., Manaf, A., Astuti, W. and Nurjaman, F.</p> <p><i>Title</i> Studies on reduction characteristics of limonite and effect of sodium sulphate on the selective reduction to nickel</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Journal of The Institution of Engineers (India): Series D, 102(1), pp.149-157</p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1"> <thead> <tr> <th><i>Organization</i></th> <th><i>Role</i></th> <th><i>Period</i></th> </tr> </thead> <tbody> <tr> <td><i>Physical Society of Indonesia</i></td> <td><i>Member</i></td> <td><i>Now</i></td> </tr> </tbody> </table>	<i>Organization</i>	<i>Role</i>	<i>Period</i>	<i>Physical Society of Indonesia</i>	<i>Member</i>	<i>Now</i>
<i>Organization</i>	<i>Role</i>	<i>Period</i>					
<i>Physical Society of Indonesia</i>	<i>Member</i>	<i>Now</i>					

Name	Prof. Dr. Vivi Fauzia		
Position	<i>Professor of Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctor (Microengineering and Nanoelectronics)</i>	<i>Universiti Kebangsaan Malaysia</i>	<i>2013</i>
	<i>Master (physics)</i>	<i>Bandung Institute of Technology</i>	<i>1997</i>
	<i>Undergraduate Degree (physics)</i>	<i>Bandung Institute of Technology</i>	<i>1995</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor Assistant Professor</i>	<i>UI</i>	<i>Current position</i>
	<i>Head of Materials Science Postgraduate Program of Physics</i>	<i>UI</i>	<i>2014 - 2022</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Fabrication of Semiconductor and Noble Metal Nanostructures for Thermoelectric, Antenna, and Catalyst Applications</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 90.000.000</i>	
	<i>Name of project or research focus</i>	<i>ZnO/Pt Nanoflower Nanocomposite Structures as Photocatalysts for Dye Degradation</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 45.000.000</i>	
	<i>Name of project or research focus</i>	<i>Effect of Anisotropic Noble Metal Alloy Nanoparticles on the Performance Enhancement of ZnO Nanorod Photocatalysts</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 250.000.000</i>	
<i>Name of project or research focus</i>	<i>Fabrication of ZnO/2D Semiconductor Heterostructures and Ag Nanowires for Optoelectronic Device Applications</i>		

<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 99.789.300</i>
<i>Name of project or research focus</i>	<i>Fabrication of ZnO/Quantum Dot MoS2 and WS2 Nanocomposite Photoconductors Using Laser Ablation Method</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 129.000.000</i>
<i>Name of project or research focus</i>	<i>Effect of Transition Metal Dichalcogenides Addition on ZnO-Based Photoanodes for Photoelectrochemical Water Splitting Efficiency</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 129.000.000</i>
<i>Name of project or research focus</i>	<i>Effect of Dysprosium (Dy) Doping on the Thermoelectric Properties of Nanostructured Bismuth Telluride (Bi2Te3)</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 86.000.000</i>
<i>Name of project or research focus</i>	<i>Design and Development of Flexible Ag Nanowires and Polydimethylsiloxane Microstrip Patch Antenna at 5 GHz for Wireless Local Area Network (WLAN) Applications</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 86.000.000</i>
<i>Name of project or research focus</i>	<i>Effect of Synthesis Temperature and Exfoliation on the Performance of MoS2-Based Photothermal Water Evaporation Systems</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2022</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 100.000.000</i>

<i>Name of project or research focus</i>	<i>Surface Modification of Oil Palm Empty Fruit Bunch-Based Activated Carbon Through Nitrogen and Sulfur Heteroatom Doping as EDLC Electrode Material</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2022</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 100.000.000</i>
<i>Name of project or research focus</i>	<i>Fabrication of Molybdenum Oxide (MoO₃) Nanoblade-Based Photoanodes for Hydrogen Production</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2022</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 100.000.000</i>
<i>Name of project or research focus</i>	<i>Effect of UV Ozone on the Photothermal Properties of MoS₂ for Solar-Assisted Water Evaporation Systems</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2023</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 150.000.000</i>
<i>Name of project or research focus</i>	<i>Development of Transition Metal Dichalcogenide and Carbon Quantum Dot Heterostructures for Hydrogen Evolution Reaction Electrocatalysts</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 150.000.000</i>
<i>Name of project or research focus</i>	<i>Development of Multi-Colorimetric Sensors Based on Silver Nanoparticles for Vitamin C Detection</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 150.000.000</i>
<i>Name of project or research focus</i>	<i>Role of Anisotropic Au and Pt Structures in the Photocatalytic Activity of ZnO Under Ultraviolet and Visible Light Radiation</i>
<i>Period and any other information</i>	<i>Research grant from DIKTI, 2019-2020</i>
<i>Partners, if applicable</i>	

	<i>Amount of financing</i>	<i>Rp 129.298.000</i>
	<i>Name of project or research focus</i>	<i>Synthesis and Characterization of Hybrid Nano Structures ZnO/AuX (X=Ag, Pt, Pd) for Photocatalysis and Photovoltaic Applications</i>
	<i>Period and any other information</i>	<i>Research grant from DIKTI, 2019-2020</i>
	<i>Partners, if applicable</i>	
	<i>Amount of financing</i>	<i>Rp 103.091.000</i>
	<i>Name of project or research focus</i>	<i>Effect of MoS2 and MoO3 Nanosheet Addition on the Performance of ZnO-Based UV Photodetectors</i>
	<i>Period and any other information</i>	<i>Research grant from DIKTI, 2022</i>
	<i>Partners, if applicable</i>	
	<i>Amount of financing</i>	<i>Rp 173.200.000</i>
	<i>Name of project or research focus</i>	<i>Nanocomposite of Molybdenum Disulfide/Carbon Quantum Dots as Electrocatalysts for Hydrogen Evolution Reaction (HER) in Clean Hydrogen Energy Production</i>
	<i>Period and any other information</i>	<i>Research grant from DIKTI, 2023-2024</i>
	<i>Partners, if applicable</i>	
	<i>Amount of financing</i>	<i>Rp 129.800.000</i>
	<i>Project title</i>	
	<i>Partners</i>	<i>National University of Malaysia University of Malaya BRIN</i>
<i>Industry collaborations over the last 5 years</i>		
<i>Patents and proprietary rights</i>	<i>Title</i>	<i>Year</i>
<i>Important publications over the last 5 years</i>	<i>Selected recent publications from a total of approx.</i>	<i>58</i>
	<i>Author (s)</i>	<i>Mahardika, T. Putri, N.A. Putri, A.E. Fauzia, V. Roza, L. Sugihartono, I. Herbani, Y.</i>
	<i>Title</i>	<i>Rapid and low temperature synthesis of Ag nanoparticles on the ZnO nanorods for photocatalytic activity improvement</i>
	<i>Any other information</i>	<i>10.1016/j.rinp.2019.102209</i>
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Results in Physics, Volume 13, 2019</i>
	<i>Author (s)</i>	<i>Dwiputra, M.A. Fadhila, F. Imawan, C. Fauzia, V.</i>

	<p><i>Title</i> <i>The enhanced performance of capacitive-type humidity sensors based on ZnO nanorods/WS2 nanosheets heterostructure</i></p> <p><i>Any other information</i> <i>10.1016/j.snb.2020.127810</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Sensors and Actuators, B: Chemical, Volume 310, 2020</i></p>
	<p><i>Author (s)</i> <i>Eka Putri, A. Roza, L. Budi, S. Ali Umar, A. Fauzia, V.</i></p> <p><i>Title</i> <i>Tuning the photocatalytic activity of nanocomposite ZnO nanorods by shape-controlling the bimetallic AuAg nanoparticles</i></p> <p><i>Any other information</i> <i>10.1016/j.apsusc.2020.147847</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Applied Surface Science, Volume 536, 2021</i></p>
	<p><i>Author (s)</i> <i>Ramli, M.A. Mawarnis, E.R. Umar, M.I.A. Rahman, M.Y.A. Fauzia, V. Nurdin, M. Umar, A.A.</i></p> <p><i>Title</i> <i>Charge transfer uplift in dye-sensitized solar cells using fibrous nanocrystals of platinum-based bimetallic counter electrodes</i></p> <p><i>Any other information</i> <i>10.1016/j.surf.2021.101311</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Surfaces and Interfaces, Volume 26, 2022</i></p>
	<p><i>Author (s)</i> <i>Ginting, R.T. Abdullah, H. Fauzia, V.</i></p> <p><i>Title</i> <i>Facile preparation of MXene and protonated-g-C₃N₄ on natural latex foam for highly efficient solar steam generation</i></p> <p><i>Any other information</i> <i>10.1016/j.matlet.2022.131779</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Materials Letters, Volume 313, 2022</i></p>
	<p><i>Author (s)</i> <i>Ahmad Fahri, M.A.S. Rohizat, N.S. Yudianta, A. Fauzia, V. Abdul Khudus, M.I.M. Zakaria, R.</i></p> <p><i>Title</i> <i>Nonlinear optical response of zinc oxide nanorods with gold and silver alloy embedment</i></p> <p><i>Any other information</i> <i>10.1016/j.physb.2022.413899</i></p>

	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>		<i>Physica B: Condensed Matter, Volume 637, 2022</i>
	<i>Author (s)</i>		<i>Fareza, A. R., Roza, L., Nugroho, F. A. A. & Fauzia, V.</i>
	<i>Title</i>		<i>Modulating light absorption and charge recombination in photoelectrochemical water oxidation with spin-coated MoS₂ co-catalyst on ZnO nanorods</i>
	<i>Any other information</i>		<i>10.1016/j.surfin.2023.102663</i>
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>		<i>Surfaces and Interfaces, Volume 37, 2023</i>
	<i>Author (s)</i>		<i>Riski Titian Ginting, Hairus Abdullah, Diana Alemin Barus, Vivi Fauzia</i>
	<i>Title</i>		<i>Extremely high-efficiency solar steam generation, robust and scalable photothermal evaporator based on ZIF-67@MXene/rGO decorated rock wool</i>
	<i>Any other information</i>		<i>10.1039/d2ta09778h</i>
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>		<i>Journal of Materials Chemistry A, Volume 11, Issue 10, 2023</i>
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	<i>Physical Society of Indonesia</i>	<i>Member</i>	<i>2020-Now</i>
	<i>ACS</i>	<i>Member</i>	<i>Now</i>

Name	Professor Dra. Ariadne Lakshmidewi, M.Eng., Ph.D		
Position	<i>Professor of Composite Materials</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctor (Materials Engineering)</i>	<i>Monash University University of South Australia</i>	<i>2005</i>
	<i>Master (Materials Science and Engineering)</i>	<i>Bandung Institute of Technology</i>	<i>1996</i>
	<i>Undergraduate Degree (physics)</i>	<i>Bandung Institute of Technology</i>	<i>1987</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor</i>	<i>UI</i>	<i>Current position</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Study of Fabrication Parameters and Mechanical Properties Characteristics of Haur Hejo Bamboo and Tali Bamboo Fiber Reinforced Polymer Composites for Fiberboard Applications</i>	
	<i>Period and any other information</i>	<i>Research Grant from UI 2019-2020</i>	
	<i>Partners, if applicable</i>	<i>-</i>	
	<i>Amount of financing</i>	<i>Rp. 60.000.000</i>	
	<i>Name of project or research focus</i>	<i>Fabrication and Characterization of bamboo fiber-reinforced composite material for prototyping automotive accessories fiberboard</i>	
	<i>Period and any other information</i>	<i>Research Grant from Dikti 2019-2020</i>	
	<i>Partners, if applicable</i>	<i>-</i>	
	<i>Amount of financing</i>	<i>Rp. 58.500.000</i>	
	<i>Name of project or research focus</i>	<i>Development of Natural Bentonite as Catalyst by High Power Ultrasonic Technique for Biodiesel Process at Supercritical CO₂</i>	
	<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>	
	<i>Partners, if applicable</i>	<i>-</i>	
	<i>Amount of financing</i>	<i>Rp. 60.000.000</i>	
<i>Name of project or research focus</i>	<i>Utilization of Nanocellulose from Natural Fiber Waste as Reinforcement of Polyurethane Foam Composites (PU Foam) for Structural Applications</i>		
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>		

	Partners, if applicable	-
	Amount of financing	Rp. 76.761.000
	Name of project or research focus	Characterization of Subang pineapple leaf fiber - West Java and Sumberejo kenaf fiber - Central Java as reinforcement for composite materials: woven and non-woven.
	Period and any other information	Research Grant from UI 2020-2021
	Partners, if applicable	-
	Amount of financing	Rp.50.000.000
	Name of project or research focus	Optimization of Biodiesel Production under Supercritical CO2 Conditions with Pillared Bentonite Catalysts
	Period and any other information	Research Grant from Dikti 2021
	Partners, if applicable	-
	Amount of financing	Rp. 52.600.000
	Name of project or research focus	Mechanical and Physical Characteristics of Composites Epoxy Sandwich / Sumberejo Kenaf Fiber with Polyurethane Foam Core
	Period and any other information	Research Grant from UI 2023-2024
	Partners, if applicable	-
	Amount of financing	Rp. 100.000.000
	Name of project or research focus	Study of the mechanisms of a biomimetic nanozyme of laccase-like activity to mediate the phenolic pollutants
	Period and any other information	BILATERAL STRATEGIC ALLIANCE (UI-UTM BISA) RESEARCH COLLABORATION AGREEMENT (MATCHING GRANT) 2023
	Partners, if applicable	UTM
	Amount of financing	Rp.150.000.000
	Name of project or research focus	Study of Fabrication Parameters and Mechanical Properties Characteristics of Haur Hejo Bamboo and Tali Bamboo Fiber Reinforced Polymer Composites for Fiberboard Applications
	Period and any other information	Research Grant from UI 2019-2020
	Partners, if applicable	-
	Amount of financing	Rp. 60.000.000

<i>Name of project or research focus</i>	<i>Fabrication and Characterization of bamboo fiber-reinforced composite material for prototyping automotive accessories fiberboard</i>
<i>Period and any other information</i>	<i>Research Grant from Dikti 2019-2020</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 58.500.000</i>
<i>Name of project or research focus</i>	<i>Development of Natural Bentonite as Catalyst by High Power Ultrasonic Technique for Biodiesel Process at Supercritical CO2</i>
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 60.000.000</i>
<i>Name of project or research focus</i>	<i>Utilization of Nanocellulose from Natural Fiber Waste as Reinforcement of Polyurethane Foam Composites (PU Foam) for Structural Applications</i>
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 76.761.000</i>
<i>Name of project or research focus</i>	<i>Characterization of Subang pineapple leaf fiber - West Java and Sumberejo kenaf fiber - Central Java as reinforcement for composite materials: woven and non-woven.</i>
<i>Period and any other information</i>	<i>Research Grant form UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp.50.000.000</i>
<i>Name of project or research focus</i>	<i>Optimization of Biodiesel Production under Supercritical CO2 Conditions with Pillared Bentonite Catalysts</i>
<i>Period and any other information</i>	<i>Research Grant from Dikti 2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 52.600.000</i>
<i>Name of project or research focus</i>	<i>Mechanical and Physical Characteristics of Composites Epoxy Sandwich / Sumberejo Kenaf Fiber with Polyurethane Foam Core</i>
<i>Period and any other information</i>	<i>Research Grant form UI 2023-2024</i>
<i>Partners, if applicable</i>	-

	<i>Amount of financing</i>	<i>Rp. 100.000.000</i>
	<i>Name of project or research focus</i>	<i>Study of the mechanisms of a biomimetic nanozyme of laccase-like activity to mediate the phenolic pollutants</i>
	<i>Period and any other information</i>	<i>BILATERAL STRATEGIC ALLIANCE (UI-UTM BISA) RESEARCH COLLABORATION AGREEMENT (MATCHING GRANT) 2023</i>
	<i>Partners, if applicable</i>	<i>UTM</i>
	<i>Amount of financing</i>	<i>Rp.150.000.000</i>
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> • <i>Seto Roseno (Agency for the Assessment and Application of Technology /BPPT Indonesia)</i> • <i>Yuni K. Krisnandi (Department of Chemistry, Faculty of Mathematics and Natural Sciences, UI)</i> • <i>Sutarno (Department of Metallurgy Engineering, Faculty of Engineering, s Jendral-Achmad Yani University, Bandung, Indonesia)</i> 	
Patents and proprietary rights	<i>Title</i>	<i>Year</i>
Important publications over the last 5 years	<i>Selected recent publications from a total of approx.</i>	32
	<i>Author (s)</i>	<i>Sudarmanto Juwono, A.L. Subyakto Budiman, I. Lubis, M.A.R. Kusumah, S.S. Kusumaningrum, W.B. Adi, D.S.</i>
	<i>Title</i>	<i>Effect of cold-water treatment and hydrothermal carbonization of oil-palm-trunk fibers on compatibility with cement for the preparation of cement- bonded particleboard</i>
	<i>Any other information</i>	<i>2021/ https://www.tandfonline.com/doi/full/10.1080/17480272.2021.1983871</i>
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Wood Material Science and Engineering, 2021</i>
	<i>Author (s)</i>	<i>Martijanti Martijanti, Sutarno Sutarno, Ariadne L. Juwono</i>
	<i>Title</i>	<i>Polymer composite fabrication reinforced with bamboo fiber for particle board product raw material application</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Polymers 2021, 13(24), 4377</i>
	<i>Author (s)</i>	<i>Afkari, A.S. Juwono, A.L. Roseno, S.</i>

	<p><i>Title</i> <i>Effect of fiber stacking orientation on the mechanical and thermal properties of laminated kenaf fiber/epoxy composites</i></p> <p><i>Any other information</i> 2022, https://www.tandfonline.com/doi/abs/10.1080/2374068X.2022.2129822?journalCode=tmpt20</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Advances in Materials and Processing Technologies</i></p>						
	<p><i>Author (s)</i> <i>Agustian, E. Juwono, A.L. Rinaldi, N. Dwiatmoko, A.A.</i></p> <p><i>Title</i> <i>Pillaring of bentonite clay with Zr, Ti, and Ti/Zr by ultrasonic technique for biodiesel production</i></p> <p><i>Any other information</i> 10.1016/j.sajce.2023.06.001</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>South African Journal of Chemical Engineering</i></p>						
	<p><i>Author (s)</i> <i>Hendriko, A. Juwono, A.L. Budiman, I. Subyacto Soegijono, B. Sadir, M. Sudarmanto Purnomo, D. Narto Akbar, F. Setyolisdianto, J.A. Kristianto, M.A.</i></p> <p><i>Title</i> <i>Mechanical and thermal properties of non-structural adhesive mortar using linear low-density polyethylene (LLDPE) aggregate substitution with vinyl acetate/ethylene (VAE) interface</i></p> <p><i>Any other information</i> 10.1007/s00396-023-05216-9</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Colloid and Polymer Science</i></p>						
Activities in specialist bodies over the last 5 years	<table border="1"> <thead> <tr> <th><i>Organization</i></th> <th><i>Role</i></th> <th><i>Period</i></th> </tr> </thead> <tbody> <tr> <td><i>Physical Society of Indonesia</i></td> <td><i>Vice Head of PSI</i></td> <td><i>2021 - Now</i></td> </tr> </tbody> </table>	<i>Organization</i>	<i>Role</i>	<i>Period</i>	<i>Physical Society of Indonesia</i>	<i>Vice Head of PSI</i>	<i>2021 - Now</i>
<i>Organization</i>	<i>Role</i>	<i>Period</i>					
<i>Physical Society of Indonesia</i>	<i>Vice Head of PSI</i>	<i>2021 - Now</i>					

Name	Dr. Budhy Kurniawan R., M.Si.		
Position	Associate Professor of Physics		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	Doctor	Tokyo Institute of Technology	2000
	Master	Universitas Indonesia	1995
	Undergraduate Degree (physics)	Universitas Indonesia	1992
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	Associate Professor	UI	Current position
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	Optimization of Magnetoresistance and Magnetocaloric Properties of Lanthanum Manganite-Based Materials with Substitution of Alkali, Alkaline Earth, and Transition Metal Elements	
	<i>Period and any other information</i>	Research Grant from UI 2019	
	<i>Partners, if applicable</i>	-	
	<i>Amount of financing</i>	Rp. 90.000.000	
	<i>Name of project or research focus</i>	Magnetoresistance Phenomenon of Perovskite Manganite-based Material La _{0.7} (Ba _{0.97} Ca _{0.03}) _{0.3} MnO ₃ Doped with Cu at Site-Mn	
	<i>Period and any other information</i>	Research Grant from UI 2019	
	<i>Partners, if applicable</i>	-	
	<i>Amount of financing</i>	Rp. 45.000.000	
	<i>Name of project or research focus</i>	Synthesis and Characterization of Functional Materials Based on Manganite Perovskite and MoS ₂ as Advanced Materials	
	<i>Period and any other information</i>	Research Grant from UI 2019	
	<i>Partners, if applicable</i>	-	
	<i>Amount of financing</i>	Rp. 270.000.000	
	<i>Name of project or research focus</i>	Exploration of Electron Transport Mechanism and Metal-Insulator Transition in CaMnO ₃ -based Data Storage Materials	
	<i>Period and any other information</i>	Research Grant from Dikti 2019	
	<i>Partners, if applicable</i>	-	
	<i>Amount of financing</i>	Rp. 141.948.500	

<i>Name of project or research focus</i>	<i>Engineering Lanthanum Manganate-based Materials for Magnetoresistance at Low Magnetic Field</i>
<i>Period and any other information</i>	<i>Research Grant from Dikti 2019</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 120.791.000</i>
<i>Name of project or research focus</i>	<i>Exploration of Magnetic Properties in La_{0.7}Ba_{0.25}Nd_{0.05}Mn_{1-x}TM_xO₃ (TM = Ni and Ti) As a Candidate Material for Data Storage and Magnetic Cooling</i>
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 172.000.000</i>
<i>Name of project or research focus</i>	<i>Engineering Functional Materials based on LaMnO₃ Substituted and Composite with Transition Metals</i>
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 76.761.000</i>
<i>Name of project or research focus</i>	<i>Investigation of Optical, Electrical and Magnetic Properties of La_{0.7}Ba_{0.291}Ca_{0.09}MnO₃ Based Materials</i>
<i>Period and any other information</i>	<i>Research Grant from UI 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 86.000.000</i>
<i>Name of project or research focus</i>	<i>Exploration of Electron Transport Mechanism and Metal-Insulator Transition in CaMnO₃-based Data Storage Materials</i>
<i>Period and any other information</i>	<i>Research Grant from Dikti 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 94.217.000</i>
<i>Name of project or research focus</i>	<i>Engineering Lanthanum Manganate-based Materials for Magnetoresistance Properties at Low Magnetic Fields</i>
<i>Period and any other information</i>	<i>Research Grant from Dikti 2020-2021</i>
<i>Partners, if applicable</i>	-
<i>Amount of financing</i>	<i>Rp. 110.719.000</i>

	<p><i>Name of project or research focus</i> <i>Correlation Analysis of Gaseous Pollutants and Causality Detection of Meteorological Factors on Local PM2.5 Concentration in Jakarta Area</i></p> <p><i>Period and any other information</i> <i>Research Grant from UI 2022</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp. 50.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Exploration of Magnetic Properties of Material $\text{La}_{0.7}(\text{Ba}_x\text{Ca}_y\text{Sr}_z)\text{O}_{3-3x-3y-3z}$ as a Magnetic Cooling Material Candidate</i></p> <p><i>Period and any other information</i> <i>Research Grant from UI 2022</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp. 100.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Investigation of Magnetoresistance Properties of $(1-x)\text{La}_{0.7}\text{Sr}_{0.2}\text{Ca}_{0.1}\text{MnO}_3/x\text{CuO}$ Composites ($x = 0; 5; 10; 15$ and 20 wt%) at Low Temperatures and Magnetic Fields</i></p> <p><i>Period and any other information</i> <i>Research Grant from Dikti 2022</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp. 50.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Synthesis and Characterization of Magnetic Properties and Electromagnetic Wave Absorption of Thin Layer LaMnO_3 by Electroporesis Deposition Method</i></p> <p><i>Period and any other information</i> <i>Research Grant from Dikti 2022</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp. 50.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Study of Cu-Ni Coating as an Anti-corrosion Material for Aluminum Pipe in Seawater</i></p> <p><i>Period and any other information</i> <i>Research Grant from Dikti 2022</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp. 50.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Investigation of Quantum Size Effect on Superconducting Materials</i></p> <p><i>Period and any other information</i> <i>Indonesian Collaborative Research Grant 2022</i></p>

	<p><i>Partners, if applicable</i> UNPAD, UNS and BRIN</p> <p><i>Amount of financing</i> Rp. 75.000.000</p>				
	<p><i>Name of project or research focus</i> Investigation of Cation Mismatch Effect on Magnetic Properties of $\text{La}_{0.7}(\text{Ba}_x\text{Ca}_y\text{Sr}_z)\text{O}_{3-3x-3y-3z}\text{MnO}_3$ Magnetic Coolant Material by Neutron Diffraction</p> <p><i>Period and any other information</i> Research Grant from UI 2023</p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> Rp. 150.000.000</p>				
	<p><i>Name of project or research focus</i> Implementation of Long Short Term Memory (LSTM) for Particulate Matter (PM_{2.5}) Concentration Prediction in Metropolitan Areas Based on Causality Analysis: Jakarta Case Study</p> <p><i>Period and any other information</i> Research Grant from Dikti 2023</p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> Rp. 76.500.000</p>				
	<p><i>Name of project or research focus</i> Rainfall Detection from Downlink Signals of Communication Satellites Using Artificial Intelligent Techniques</p> <p><i>Period and any other information</i> Research Grant from Dikti 2023</p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> Rp. 89.250.000</p>				
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ● Prof. Dr Hidekazu Tanaka-Dept of Physics, Tokyo Institute of Technology, Japan ● -Prof. Dr. Hiroyuki Nojiri-Istitute for Materials Research, Tohoku University, Japan ● -Prof. Dr. Isao Watanabe, Nishina Center, RIKEN, Japan ● -Prof. Dr. Dong-Hyun Kim. Dept of Physics, The Chung Buk National University, South Korea ● -Prof. Dr. SC. Yu, Dept of Physics, Ulsan National Institute of Science and Technology (UNIST),South Korea ● -Prof. Dr. Andriwo Rusdi, Dept of Physics, National University of Singapore, Singapore ● -Prof. Dr. Risdiyana, Dept of Physics, Padjjaran University, Bandung, Indonesia. ● -Prof Dr Dahlan Tahrir, Dept of Physics, Hasanuddin Universsity, Makassar, Indonesia ● -Prof. Dr. A.Agung Nugroho, Dept of Physics, Bandung Institute of Technology, Indonesia. ● -Dr Agung Imadudin, Pusat Riset Fisika, Badan Riset dan Inovasi Nasional, Indonesia ● Dr Edi Suprayoga, Pusat Riset Quantum, Badan Riset dan Inovasi Nasional, Indonesia 				
Patents and proprietary rights	<table border="1"> <thead> <tr> <th>Title</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Title	Year		
Title	Year				

Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> 69</p> <p><i>Author (s)</i> Budi, S. Takahashi, M. Sutrisno, M.G. Adi, W.A. Fairuza, Z. Kurniawan, B. Maenosono, S. Umar, A.A.</p> <p><i>Title</i> Phases evolution and photocatalytic activity of Cu₂O films electrodeposited from a non-pH-adjusted solution</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Royal Society Open Science, Volume 10, Issue 6 2023</p>
	<p><i>Author (s)</i> Rahman, I.N. Kurniawan, B. Nanto, D. Imaduddin, A. Shinde, K.P. Lin, H. Yen, P.D.H. Yu, S.-C. Kim, D.-H. Chung, K.C. Manh, T.V. Razaq, D.S. Munazat, D.R.</p> <p><i>Title</i> Impact of copper substitution on the magnetism and transport properties of La_{0.7}Ba_{0.25}Nd_{0.05}Mn_{1-x}Cu_xO₃ (x = 0, 0.03, 0.05, and 0.07)</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Materialia, Volume 7, 2023</p>
	<p><i>Author (s)</i> Munazat, D.R. Kurniawan, B. Aprilianto, T. Manawan, M.</p> <p><i>Title</i> Effect of Chromium Substitution on Microstructure and Magnetic Properties of La_{0.7}Sr_{0.2}Ba_{0.1}Mn_{1-x}Cr_xO₃ (x = 0, 0.03, 0.05, 0.07, 0.1)</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Solid State Phenomena, Volume 345, Pages 71-75, 2023</p>
	<p><i>Author (s)</i> Munazat, D.R. Kurniawan, B. Razaq, D.S. Watanabe, K. Tanaka, H.</p> <p><i>Title</i> Crossover critical behavior and magnetic entropy change of La_{0.7}Ba_{0.1}Ca_{0.1}Sr_{0.1}MnO₃: A comparison between wet-mixing and sol-gel synthesis methods</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Physica B: Condensed Matter, Volume 592, 2020</p>

Name	Professor Dede Djuhana, M.Si., Ph.D		
Position	<i>Professor of Materials Science</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctor (Physics)</i>	<i>Chungbuk National University</i>	<i>2010</i>
	<i>Master (physics)</i>	<i>Universitas Indonesia</i>	<i>2003</i>
	<i>Undergraduate Degree (physics)</i>	<i>Universitas Indonesia</i>	<i>1999</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Dean of Faculty of Mathematics and Natural Sciences</i>	<i>UI</i>	<i>Current position</i>
	<i>Professor</i>	<i>UI</i>	<i>Current position</i>
	<i>Director of Research & Development Head of subdirectorate of Planning & development research</i>	<i>UI</i>	<i>2015 – 2020</i>
	<i>Manager of Research coordination</i>	<i>UI</i>	<i>2014 – 2015</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Micromagnetic Study of the Effect of Sub-Nanosecond Magnetic Pulses on Domain Wall Dynamics in CoFeB Nanowire Materials</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 43.390.000</i>	
	<i>Name of project or research focus</i>	<i>Modeling Magnetic Domain Structures Using the Object Oriented Micromagnetic Framework (OOMMF) and Noble Metal Plasmon Resonance Phenomena (Au, Ag, Au-Ag) Using the Metallic Nanoparticle Boundary Element Method (MNPBEM)</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2019</i>	
	<i>Partners, if applicable</i>		
	<i>Amount of financing</i>	<i>Rp 238.300.000</i>	
	<i>Name of project or research focus</i>	<i>Triangular Gold Nanoparticle Synthesis Using Laser Photoreduction Method for Heavy Metal Contaminant Detection</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>	

	<p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 60.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Development of Zinc Oxide-Based Nanocomposite Materials Using Reactive Laser Ablation in Liquid Technique as Photocatalyst for Water Conservation</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 100.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Development of Ti3C2Tx MXene Nanosheets with Mesoporous NiFe2O4 as Anode Materials for Lithium-Ion Batteries</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2022</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 100.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Heterostructure ZnFe2O4 Photocatalyst with Metal Particle Clusters via Biocompatible Technology for Remediation of Persistent Organic Pollutants (POP)</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2023</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 150.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Development of Anisotropic Gold Nanostructures Using Photochemical Reduction Technique as Plasmonic Sensor Materials for Detecting Chromium Contaminants in Water Environments</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2023</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 100.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Micromagnetic Study of Domain Wall Dynamics in Perpendicularly Magnetized Nanowire Materials Under the Influence of Nanosecond-Scale Electric Current Pulses and Magnetic Fields for Spintronic Device Applications</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2023</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 100.000.000</i></p>

<i>Name of project or research focus</i>	<i>Development of Fe₃O₄ Nanoparticles from Iron Sand Using Laser Ablation Technique as Reusable Magnetic Photocatalyst Materials</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 150.000.000</i>
<i>Name of project or research focus</i>	<i>Micromagnetic Study of CoFe₂O₄ Nanoparticle Systems on Single and Multiple Domain Configuration Dynamics for Functional Material Applications</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 150.000.000</i>
<i>Name of project or research focus</i>	<i>Analysis of Domain Wall Structure in Co- and Fe-Based Ferromagnetic Materials Using Micromagnetic Simulations Based on the Landau-Lifshitz-Gilbert (LLG) Equation</i>
<i>Period and any other information</i>	<i>Research grant from DIKTI, 2019</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 120.891.400</i>
<i>Name of project or research focus</i>	<i>Study of Magnetic Domain Wall Dynamics in Iron Alloy-Based Materials Using a Micromagnetic Simulation Approach</i>
<i>Period and any other information</i>	<i>Research grant from DIKTI, 2020</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 54.700.000</i>
<i>Name of project or research focus</i>	<i>Study of Magnetic Domain Wall Dynamics in PMA CoFeB Materials Under Sub-Nanosecond Pulses Using a Micromagnetic Approach</i>
<i>Period and any other information</i>	<i>Research grant from DIKTI, 2022</i>
<i>Partners, if applicable</i>	
<i>Amount of financing</i>	<i>Rp 54.000.000</i>
<i>Name of project or research focus</i>	<i>Analysis of Domain Dynamics in Perpendicular Magnetized Ferromagnetic Materials Based on Co-Fe Alloys Using a Micromagnetic Approach for Spintronic Device Development</i>
<i>Period and any other information</i>	<i>Research grant from DIKTI, 2022</i>

	<p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 110.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Study of Magnetic Domain Wall Dynamics in PMA CoFeB Materials Under Sub-Nanosecond Pulses Using a Micromagnetic Approach</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2024</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 59.940.000</i></p>
	<p><i>Name of project or research focus</i> <i>Analysis of Domain Wall Structure in Co- and Fe-Based Ferromagnetic Materials Using Micromagnetic Simulations Based on the Landau-Lifshitz-Gilbert (LLG) Equation</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2021</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 103.000.000</i></p>
	<p><i>Name of project or research focus</i> <i>Study of Magnetic Domain Wall Dynamics in Iron Alloy-Based Materials Using a Micromagnetic Simulation Approach</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2021</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 53.220.000</i></p>
	<p><i>Name of project or research focus</i> <i>Plasmonic Colorimetric Sensors Based on Silver Nanoparticles for Environmental Pollution Detection: LSPR Simulation and Fabrication</i></p> <p><i>Period and any other information</i> <i>Research grant from DIKTI, 2021</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i> <i>Rp 84.160.000</i></p>
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ● <i>International publication of Q2 Scopus (PUTI Q2), Directorate Research and Development, University of Indonesia, Partner: National Research and Innovation Agency (BRIN), Rp. 100 million, year 2022.</i> ● <i>Research of Master and Doctoral Program (PMDSU), Micromagnetic study of domain wall dynamics of CoFeB using nanosecond pulse, Ministry Education, Cultur, Reseach and Technology (Kemendikbudristek), Rp. 54 million, Partner: Chungbuk Nasional University, year 2022.</i> ● <i>The excellence basic research (PDUPT), Analysis of domain dynamics in Bloch type ferromagnetic based on Co-Fe alloy using micromagnetic approach, Ministry Education, Cultur, Reseach and Technology (Kemendikbudristek), Rp 110 million, partner: chungbuk National University, Korea, year 2022.</i> ● <i>Indonesia Collaboration Research (PPKI), Observation of the spin wave from domain-wall type Bloch wall using micromagnetic simulation, Rp</i>

	<i>50 million, support from WCU project, Partner: UNS & UGM, year 2021</i>	
Patents and proprietary rights	<i>Title</i>	<i>Year</i>
Important publications over the last 5 years	<i>Selected recent publications from a total of approx.</i>	<i>57</i>
	<i>Author (s)</i>	<i>Djuhana D., Kurniawan C., Purnama B., Kim D.-H.</i>
	<i>Title</i>	<i>Investigation of harmonic and inharmonic domain wall oscillation by sinusoidal magnetic field in the notched Permalloy nanowire using micromagnetic approach</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Kuwait Journal of Science, Volume 50, Issue 4, 2023</i>
	<i>Author (s)</i>	<i>Yudasari N., Hardiansyah A., Herbani Y., Isnaeni, Suliyanti M.M., Djuhana D.</i>
	<i>Title</i>	<i>Single-step laser ablation synthesis of ZnO–Ag nanocomposites for broad-spectrum dye photodegradation and bacterial photoinactivation</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Journal of Photochemistry and Photobiology A: Chemistry, Volume 441, 2023</i>
	<i>Author (s)</i>	<i>Putri K.Y., Fadli A.L., Umaroh F.A., Herbani Y., Imawan C., Djuhana D.</i>
	<i>Title</i>	<i>Femtosecond laser-induced photochemical synthesis of gold nanoparticles in nitrate solution</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Radiation Physics and Chemistry, Volume 199, Issue 7, 2022</i>
	<i>Author (s)</i>	<i>Djuhana D., Kurniawan C., Kim D.-H., Widodo A.T.</i>
	<i>Title</i>	<i>Micromagnetic Simulation of Domain Structure Transition in Ferromagnetic Nanospheres under Zero External Field</i>
	<i>Any other information</i>	

	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>International Journal of Technology, Volume 12, Issue 3, 2021</i>
	<i>Author (s)</i>	<i>Kurniawan C., Djuhana D., Soegijono B., Kim D.-H.</i>
	<i>Title</i>	<i>Micromagnetic investigation of the sub-nanosecond magnetic pulse driven domain wall motion in CoFeB nanowire</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Current Applied Physics, Volume 27, 2021</i>
	<i>Author (s)</i>	<i>Yudasari N., Anugrahwidya R., Tahir D., Suliyanti M.M., Herbani Y., Imawan C., Khalil M., Djuhana D.</i>
	<i>Title</i>	<i>Enhanced photocatalytic degradation of rhodamine 6G (R6G) using ZnO–Ag nanoparticles synthesized by pulsed laser ablation in liquid (PLAL)</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Journal of Alloys and Compounds, Volume 886, 2021</i>
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>
	<i>Physical Society of Indonesia</i>	<i>Member</i>
		<i>Period</i>
		<i>2020 – Now</i>

Name	<i>Anawati, S.Si, M.Sc., Ph.D.</i>		
Position	<i>Associate Professor of Materials Science</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Undergraduate Degree(Physics)</i>	<i>Bandung Institute of Technology</i>	<i>2002</i>
	<i>Master (Advanced Materials)</i>	<i>Chalmers University of Technology</i>	<i>2005</i>
	<i>Doctor (Materials Technology)</i>	<i>Norwegian University of Science and Technology</i>	<i>2011</i>
	<i>Postdoctoral</i>	<i>Ohio State University, US</i>	<i>2011-2012</i>
	<i>Postdoctoral</i>	<i>Kogakuin University, Japan</i>	<i>2012-2015</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>UI</i>	<i>Current position</i>
	<i>Head of Undergraduate Program in Physics</i>	<i>UI</i>	<i>2019-now</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Fundamental Study on Plasma Electrolytic Oxidation of Magnesium Alloy in Concentrated Electrolytes</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2024-2025</i>	
	<i>Partners, if applicable</i>	<i>Helmholtz Institute for surface science, Germany</i>	
	<i>Amount of financing</i>	<i>Rp 150.000.000,-</i>	
	<i>Name of project or research focus</i>	<i>Effect of Ultrasonic Vibration on the Plasma Electrolytic Oxidation of Magnesium Alloy</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2024-2025</i>	
	<i>Partners, if applicable</i>	<i>Helmholtz Institute for surface science, Germany</i>	
	<i>Amount of financing</i>	<i>Rp 150.000.000,-</i>	
	<i>Name of project or research focus</i>	<i>Synthesis of Ceramics Metal Oxide on Zircaloy-4 by Plasma Electrolytic Oxidation Method for Fuel Cladding Application of Pressurized Water Reactor (PWR)</i>	
	<i>Period and any other information</i>	<i>Research grant from UI, 2023-2024</i>	
	<i>Partners, if applicable</i>	<i>National Taiwan University of Science and Technology, NTUST, Taiwan</i>	
	<i>Amount of financing</i>	<i>Rp 150.000.000,-</i>	

<i>Name of project or research focus</i>	<i>Enhancing Wear and Corrosion Resistance of Zr-4 by Two-step Plasma Electrolytic Oxidation for Nuclear Fuel Application</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2023-2024</i>
<i>Partners, if applicable</i>	<i>Universite Laval, Canada</i>
<i>Amount of financing</i>	<i>Rp 150.000.000,- + Scholarship from Canada-ASEAN SEED for research visit 1 doctoral student</i>
<i>Name of project or research focus</i>	<i>Biodegradable Coating Using Plasma Electrolytic Oxidation on Magnesium-Hydroxyapatite (Mg-HA) Composite for Biomedical Implant Materials</i>
<i>Period and any other information</i>	<i>Grant from UI, 2023-2024</i>
<i>Partners, if applicable</i>	<i>University of Malaya, Malaysia</i>
<i>Amount of financing</i>	<i>Rp 100.000.000,-</i>
<i>Name of project or research focus</i>	<i>Fundamental study on the transformation mechanism of materials during Plasma Electrolytic Oxidation</i>
<i>Period and any other information</i>	<i>Research grant from Minister of higher education-research and technology, 2023-2024</i>
<i>Partners, if applicable</i>	<i>Institut Teknologi PLN, Indonesia</i>
<i>Amount of financing</i>	<i>Rp 142.000.000,-</i>
<i>Name of project or research focus</i>	<i>Effect of short heat exposure on the microstructure and properties of aluminum alloy AA7075</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2022</i>
<i>Partners, if applicable</i>	<i>Universite Laval, Canada</i>
<i>Amount of financing</i>	<i>Rp 100.000.000,-</i>
<i>Name of project or research focus</i>	<i>Plasma electrolytic oxidation of cladding material for nuclear fuel application</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2022</i>
<i>Partners, if applicable</i>	<i>Universite Laval, Canada</i>
<i>Amount of financing</i>	<i>Rp 150.000.000,-</i>
<i>Name of project or research focus</i>	<i>Development of bench scale plasma electrolytic oxidation system with electric power converter</i>
<i>Period and any other information</i>	<i>Research grant from Minister of higher education-research and technology, 2021-2022</i>
<i>Partners, if applicable</i>	<i>Institut Teknologi PLN, Indonesia and PT Badr Teknik Nusantara</i>
<i>Amount of financing</i>	<i>Rp 380.000.000</i>

<i>Name of project or research focus</i>	<i>Development of oxide composite coating anti-corrosion for aluminum power steering bolt</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	<i>PT Badr Teknik Nusantara</i>
<i>Amount of financing</i>	<i>Rp 200.000.000,-</i>
<i>Name of project or research focus</i>	<i>Fabrication and characterization topcoat YSZ-Al₂O₃ formed by electrophoretic deposition as thermal barrier coating</i>
<i>Period and any other information</i>	<i>Research grant from Minister of higher education-research and technology, 2020</i>
<i>Partners, if applicable</i>	<i>National agency of research and innovation, BRIN</i>
<i>Amount of financing</i>	<i>Rp 40.000.000,-</i>
<i>Name of project or research focus</i>	<i>Synthesis nanostructure ceramic calcium titanate by mechanochemical method</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	<i>PT Nanocenter Indonesia</i>
<i>Amount of financing</i>	<i>Rp 100.000.000,-</i>
<i>Name of project or research focus</i>	<i>Characterization of top coat YSZ for thermal barrier layer</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	<i>National agency of research and innovation, BRIN</i>
<i>Amount of financing</i>	<i>Rp 50.000.000,-</i>
<i>Name of project or research focus</i>	<i>Fabrication of composite coating by plasma electrolytic oxidation on magnesium</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	<i>-</i>
<i>Amount of financing</i>	<i>Rp 86.000.000,-</i>
<i>Name of project or research focus</i>	<i>Failure analysis of steel as a result of creep and fatigue</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2020</i>
<i>Partners, if applicable</i>	<i>National agency of research and innovation, BRIN</i>
<i>Amount of financing</i>	<i>Rp 23.028.300</i>
<i>Name of project or research focus</i>	<i>Analysis on corrosion mechanism of metal using in-situ polarization video</i>

	<p><i>Period and any other information</i> <i>Research grant from UI, 2019</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp 90.000.000,-</i></p>
	<p><i>Name of project or research focus</i> <i>Improving corrosion resistance Mg and Ti alloys for biomaterial application</i></p> <p><i>Period and any other information</i> <i>Research grant from UI, 2019</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp 250.000.000,-</i></p>
	<p><i>Name of project or research focus</i> <i>Modification of mechanical and corrosion properties of AA7075 alloy by annealing</i></p> <p><i>Period and any other information</i> <i>Research grant from Minister of higher education-research and technology, 2019</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp 57.400.000,-</i></p>
	<p><i>Name of project or research focus</i> <i>Fabrication and characterization of porous anodic aluminum oxide for electro dialysis membrane</i></p> <p><i>Period and any other information</i> <i>Research grant from Minister of higher education-research and technology, 2019</i></p> <p><i>Partners, if applicable</i> -</p> <p><i>Amount of financing</i> <i>Rp 94.606.600,-</i></p>
Industry collaborations over the last 5 years	<p><i>Project title</i> <i>Development of coating for aluminum power steering bolt by plasma electrolytic oxidation, 2019-2020</i></p> <p><i>Partners</i> <i>PT Badr Teknik Nusantara</i></p>
	<p><i>Project title</i> <i>Designing bench-scale plasma electrolytic oxidation system with electric power micro-controller, 2021-2023</i></p> <p><i>Partners</i> <i>IT PLN</i></p>
Patents and proprietary rights	<p><i>Title</i> <i>Year</i></p> <p><i>Anti-corrosion and anti-wear coating based on plasma electrolytic oxidation</i> <i>Proprietary rights, 2020</i></p> <p><i>Solution composition for plasma electrolytic oxidation for modifying aluminum power steering bolt</i> <i>Patent, 2023</i></p> <p><i>Portable plasma electrolytic oxidation device</i> <i>Patent, 2024</i></p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> <i>75</i></p>

	<p><i>Author(s)</i> S. Rahmadani and A. Anawati*</p> <p><i>Title</i> Effect of SiO₂-reinforcement and alkali treatment on the corrosion resistance of plasma electrolytic oxide coating on AZ31 magnesium alloy</p> <p><i>Any other information</i> Appl. Surf. Sci. Adv. 23 (2024) 100631</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>
	<p><i>Author(s)</i> A. Anawati*, Y. Purnamasari, A. P. Khairunisa. M. P. Wulandari, M. D. Gumelar</p> <p><i>Title</i> Improved corrosion resistance of hydroxyapatite-reinforced plasma electrolytic oxide coatings on AZ31 alloy from one-step and two-step fabrications</p> <p><i>Any other information</i> Mater. Res. Express 11 (2024) 085403</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Institute of Physics, IOP</p>
	<p><i>Author(s)</i> M. K. Ajiriyanto and A. Anawati*,</p> <p><i>Title</i> Optimizing additive Y₂O₃ concentration for improving corrosion resistance of ceramic coatings formed by plasma electrolytic oxidation on Zr-4 alloy</p> <p><i>Any other information</i> Phys. D: Appl. Phys. 57 (2024) 455207</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Institute of Physics, IOP</p>
	<p><i>Author(s)</i> N. G. Azzahra, J. Widakdo, T. Sudiro, W-S Hung, A. Anawati*</p> <p><i>Title</i> Characteristics of plasma electrolytic oxide coating on magnesium-hydroxyapatite composites</p> <p><i>Any other information</i> Mater. Letters 356 (2024) 135601</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>
	<p><i>Author(s)</i> A. Afghani and A. Anawati*</p> <p><i>Title</i> Review of electrical parameters influence on characteristics of plasma electrolytic oxide coating on Zircaloy</p>

	<p><i>Any other information</i> Indonesian Journal of Applied Physics (IJAP) vol 14 (2024) no 2 p. 219</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Indonesian Journal of Applied Physics</p>
<p><i>Author(s)</i> S. Rahmadani and A. Anawati*,</p> <p><i>Title</i> Literatur review-effect of additives and post-treatments on corrosion resistance and mechanical properties of plasma electrolytic oxidation products in magnesium and titanium</p> <p><i>Any other information</i> Indonesian Journal of Applied Physics (IJAP) vol 14 (2024) no 2 p. 399.</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Indonesian Journal of Applied Physics</p>	
<p><i>Author(s)</i> A. Anawati*, E. Hidayati, S. Purwanto</p> <p><i>Title</i> Effect of Cation Incorporation in the Plasma Electrolytic Oxide Layer Formed on AZ31 Magnesium Alloy</p> <p><i>Any other information</i> Appl. Surf. Sci. Adv. 17 (2023) 100444</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>	
<p><i>Author(s)</i> M. K. Ajiriyanto and A. Anawati*</p> <p><i>Title</i> Ultrasonication assisted plasma electrolytic oxidation accelerated growth of SiO₂/ZrO₂ coating on zircaloy-4</p> <p><i>Any other information</i> Surf. Coat. Tech. 456 (2023) 129261</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>	
<p><i>Author(s)</i> A. Anawati*, R. Izzat, R. K. Pragitta, R. I. Hernandi</p> <p><i>Title</i> Carbon dioxide-Induced Corrosion of AISI 4140 Steel in Acidified Artificial Geothermal Brine</p> <p><i>Any other information</i> Makara Journal of Science vol 27 issue 1 (2023)</p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Universitas Indonesia</p>	
<p><i>Author(s)</i> A. Anawati*, A. N. Aliyah, A. Tanji, H. Hermawan</p>	

	<p>Title</p> <p>Any other information</p> <p>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</p>	<p><i>Effect of microstructural rearrangement as a result of annealing on the corrosion behavior of 7075 aluminum alloy</i></p> <p><i>Mater. Res. Express 10 (2023) 086505</i></p> <p><i>Institute of Physics, IOP</i></p>
	<p>Author(s)</p> <p>Title</p> <p>Any other information</p> <p>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</p>	<p><i>S. Rahmadhani, M. D. Gumelar, A. Anawati*</i></p> <p><i>Optimizing Parameter for Electrophoretic Deposition of Hydroxyapatite Coating with Superior Corrosion Resistance on Pure Titanium</i></p> <p><i>Materials Research Express, 2022</i></p> <p><i>Institute of Physics, IOP</i></p>
	<p>Author(s)</p> <p>Title</p> <p>Any other information</p> <p>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</p>	<p><i>R. D. Desiati, A. Anawati*, E. Sugiarti</i></p> <p><i>Two-Step Sintering Improved Compaction of Electrophoretic-Deposited YSZ Coatings</i></p> <p><i>Journal Materials Engineering and Performance, 2022</i></p> <p><i>Springer</i></p>
	<p>Author(s)</p> <p>Title</p> <p>Any other information</p> <p>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</p>	<p><i>A. M. Habieb and A. Anawati*</i></p> <p><i>Corrosion behavior of anodic film formed in calcium hydroxide on Ti-6Al-4V alloy</i></p> <p><i>Int. J. Corros. Scale Inhib. 2022, 11, no 1, 266-279</i></p> <p><i>European Corrosion Association</i></p>
	<p>Author(s)</p> <p>Title</p> <p>Any other information</p>	<p><i>A. Anawati* and E. Hidayati</i></p> <p><i>Characteristics of magnesium phosphate coatings formed on AZ31 Mg alloy by plasma electrolytic oxidation with improved current efficiency</i></p> <p><i>Materials Science & Eng B272 (2021) 115354</i></p>

	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>
Author(s)	F. A. Afghani and A. Anawati*
Title	Plasma electrolytic oxidation of zircaloy-4 in a mixed alkaline electrolyte
Any other information	Surf. Coat. Tech. 426 (2021) 127786
	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Elsevier</p>
Author(s)	A. Anawati*, M. F. Fitriani, M. D. Gumelar
Title	Improved Corrosion Resistance of Magnesium Alloy AZ31 in Ringer Lactate by Bilayer Anodic Film/Beeswax–Colophony
Any other information	Coatings 2021, 11, 564
	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> MDPI</p>
Author(s)	A. Anawati*, H. Labibah, S. Purwanto
Title	Characteristics of non-crystalline thin oxide films formed on aluminum by plasma electrolytic oxidation
Any other information	Int. J. Corros. Scale Inhib., 2021, 10, no. 2, 801–811
	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> European Corrosion Association</p>
Author(s)	R. Naldi dan A. Anawati*
Title	Creep and Electrochemical Corrosion Behavior of Heat-treated Mg-9Al-1Zn Alloy
Any other information	J. Eng. Technol. Sci., Vol. 52, No. 5, 2020, 609-620
	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> ITB</p>
Author(s)	A. Anawati*, H. Asoh, S. Ono
Title	Improving the Surface Corrosion Resistance of AMX601 Magnesium Alloy by Acid–Alkaline Treatment

	<i>Any other information</i>		<i>Makara Journal of Science, vol. 24, 2020</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>		<i>Universitas Indonesia</i>	
	<i>Author(s)</i>		<i>A. Anawati*, H. Asoh, S. Ono</i>	
	<i>Title</i>		<i>Corrosion Resistance and Apatite-Forming Ability of Composite Coatings formed on Mg-Al-Zn-Ca Alloys</i>	
	<i>Any other information</i>		<i>Materials, 2019, 12, 2262</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>		<i>MDPI</i>	
	<i>Activities in specialist bodies over the last 5 years</i>	<i>Organization</i>	<i>Role</i>	<i>Period</i>
		<i>Physical Society of Indonesia (PSI)</i>	<i>Member</i>	<i>2016-now</i>
<i>Materials Research Indonesia (MRS-ID)</i>		<i>Member</i>	<i>2017-now</i>	
<i>Association of higher education in physics</i>		<i>Leader</i>	<i>2022-now</i>	
<i>International Society of Electrochemistry</i>		<i>Member</i>	<i>2023-now</i>	
<i>NACE corrosion association</i>		<i>Member</i>	<i>2019-now</i>	

Name	Ferry Anggoro Ardy Nugroho Ph.D.		
Position	<i>Lecturer</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2023-current</i>
	<i>Postdoctoral</i>	<i>Vrije Universiteit</i>	<i>2018-2023</i>
	<i>Postdoctoral</i>	<i>Amsterdam</i>	
	<i>Postdoctoral</i>	<i>Dutch Institute for Fundamental Energy Chalmers University of Technology</i>	
	<i>Doctor of Philosophy</i>	<i>Chalmers University of Technology</i>	<i>2014-2018</i>
	<i>Master of Science</i>	<i>Katholieke Universiteit Leuven</i>	<i>2010-2012</i>
	<i>Bachelor of Engineering</i>	<i>Nanyang Technological University</i>	<i>2005-2009</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2023-current</i>
	<i>Postdoctoral</i>	<i>Vrije Universiteit</i>	<i>2018-2023</i>
	<i>Postdoctoral</i>	<i>Amsterdam</i>	
	<i>Postdoctoral</i>	<i>Dutch Institute for Fundamental Energy Chalmers University of Technology</i>	
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2023-current</i>
	<i>Research Assistant</i>	<i>Chalmers University of Technology</i>	<i>2012-2014</i>
	<i>Research Officer</i>	<i>Institute of Materials Research and Engineering</i>	<i>2009-2010</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2023-current</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>Bilateral Strategic Alliance (UI-ITB) Matching Fund</i>	
	<i>Period and any other information</i>	<i>2024</i>	
	<i>Partners, if applicable</i>	<i>ITB</i>	
	<i>Amount of financing</i>	<i>Rp -</i>	
	<i>Name of project or research focus</i>		
	<i>Period and any other information</i>	<i>Research grant from FMIPA, 2024</i>	

	<i>Partners, if applicable</i>	
	<i>Amount of financing</i>	
	<i>Name of project or research focus</i>	<i>Duta Kolaborasi UI, 2024</i>
	<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>
	<i>Partners, if applicable</i>	
	<i>Amount of financing</i>	
	<i>Name of project or research focus</i>	<i>Hibah PUTI Q1</i>
<i>Period and any other information</i>	<i>Research grant from UI, 2024</i>	
<i>Partners, if applicable</i>		
<i>Amount of financing</i>		
<i>Name of project or research focus</i>	<i>ITSF Science and Technology Research Grant</i>	
<i>Period and any other information</i>	<i>2024</i>	
<i>Partners, if applicable</i>		
<i>Amount of financing</i>		
<i>Name of project or research focus</i>	<i>Hibah PUTI Q1</i>	
<i>Period and any other information</i>	<i>Research grant from UI, 2023</i>	
<i>Partners, if applicable</i>		
<i>Amount of financing</i>		
<i>Name of project or research focus</i>	<i>Marie Curie Action, 2021</i>	
<i>Partners, if applicable</i>		
<i>Amount of financing</i>		
Industry collaborations over the last 5 years	<i>Project title</i>	
	<i>Partners</i>	
Patents and proprietary rights	<i>Title</i>	<i>Year</i>
	<i>Optical Sensors</i>	<i>2023</i>

	<p><i>Method for Determining Thickness of a Material Deposited on a Plasmonic Sensor Arrangement</i> 2018</p> <p><i>Surface Plasmon Resonance Gas Sensor, Gas Sensing System, and Gas Sensing Method</i> 2015</p> <p><i>Processing of Ferrite Composites as Electromagnetic Absorber Materials and Their Utilization for Wireless Charging Device</i> 2012</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> 44</p> <p><i>Author(s)</i> Putri L. A.; Prabowo Y. D.; Dewi D. M. M.; Mumtazah Z.; Adila F. P.; Fadillah G.; Amrillah T.; Triyana K.; Nugroho F. A. A. **; Wasisto H. S.</p> <p><i>Title</i> Review of Noble Metal Nanoparticle-Based Colorimetric Sensors for Food Safety Monitoring</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> ACS Applied Nano Materials 2024, 7, 19821-19853</p>
	<p><i>Author(s)</i> Alaih A. F. F.; Triyono D.; Dwiputra M. A.; Nugroho F. A. A. **</p> <p><i>Title</i> Ultrafast and Low-Hysteresis Humidity Sensors based on Mesoporous LaFe_{0.925}Ti_{0.075}O₃ Perovskite</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Sensors and Actuators: B. Chemical 2024, 412, 135810.</p>
	<p><i>Author(s)</i> Nugroho F. A. A. **; Switlik D.; Armanious A.; O'Reilly P.; Darmadi I.; Nilsson S.; Zhdanov V. P.; Hook F.; Antosiewicz T. J.; Langhammer C.</p> <p><i>Title</i> Time-Resolved Size Thickness and Shape-Change Quantification using a Dual-Band Nanoplasmonic Ruler with Sub-Nanometer Resolution</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> ACS Nano 2022, 16, 15814-15826.</p>
	<p><i>Author(s)</i> Nugroho F. A. A. **; Bai P.; Darmadi I.; Castellanos G. W.; Fritschze J.; Langhammer C.; Rivas J. G.; Baldi A.</p>

	<p><i>Title</i> <i>Inverse Nanophotonic Design with Parts per Billion Optical Hydrogen Detection</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Nature Communications 2022, 13, 5737</i></p>						
	<p><i>Author(s)</i> <i>Darmadi I.; Nugroho F. A. A. **; Langhammer C.</i></p> <p><i>Title</i> <i>High-Performance Nanostructured Palladium Hydrogen Sensors – Current Limitations and Strategies for Their Resolution</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>ACS Sensors 2020, 5, 3306-3327.</i></p>						
	<p><i>Author(s)</i> <i>Nugroho F. A. A. **; Albinsson D.; Antosiewicz T. J. A.; Langhammer C.</i></p> <p><i>Title</i> <i>Plasmonic Metasurface for Spatially Resolved Optical Sensing in Three Dimensions</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>ACS Nano 2020, 14, 2345-2353.</i></p>						
	<p><i>Author(s)</i> <i>Nugroho F. A. A. **; Darmadi I.; Cusinato L.; Susarrey-Arce A.; Schreuders H.; Bannenberg L. J.; da Silva Fanta A. B.; Kadkhodazadeh S.; Wagner J. B.; Antosiewicz T. J.; Hellman A.; Zhdanov V.P.; Dam B.; Langhammer C.</i></p> <p><i>Title</i> <i>Metal - Polymer Hybrid Nanomaterials for Plasmonic Ultrafast Hydrogen Detection</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Nature Materials 2019, 18, 489-495</i></p>						
Activities in specialist bodies over the last 5 years	<table border="1"> <thead> <tr> <th><i>Organization</i></th> <th><i>Role</i></th> <th><i>Period</i></th> </tr> </thead> <tbody> <tr> <td><i>Physical Society of Indonesia (PSI)</i></td> <td><i>Member</i></td> <td><i>2023-now</i></td> </tr> </tbody> </table>	<i>Organization</i>	<i>Role</i>	<i>Period</i>	<i>Physical Society of Indonesia (PSI)</i>	<i>Member</i>	<i>2023-now</i>
<i>Organization</i>	<i>Role</i>	<i>Period</i>					
<i>Physical Society of Indonesia (PSI)</i>	<i>Member</i>	<i>2023-now</i>					

Name	Januar Widakdo, Ph.D.		
Position	<i>Lecturer</i>		
Academic career	<i>Initial academic appointment</i>	<i>Universitas Indonesia</i>	<i>Year 2023-now</i>
	<i>Habilitation [post-doctoral qualification] (subject)</i>	<i>National Taiwan University of Science and Technology</i>	<i>Year 2021-2023</i>
	<i>Doctorate (subject)</i>	<i>University of Science and Technology</i>	<i>Year 2018-2021</i>
	<i>Undergraduate degree (subject)</i>	<i>Universitas Negeri Yogyakarta</i>	<i>Year 2011-2015</i>
Employment	<i>Position Lecturer</i>	<i>Employer Department of Physics, Universitas Indonesia</i>	<i>Period 2023-now</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i>	<i>National Competitive Research: Rare Earth Metal Nanofiber Membrane as a Photocatalytic Material for Wastewater</i>	
	<i>Period and any other information</i>	<i>2024-2025</i>	
	<i>Partners, if applicable</i>	<i>Aditya Rianjanu</i>	
	<i>Amount of financing</i>	<i>Rp. 148.150.000</i>	
	<i>Name of project or research focus</i>	<i>PUTI PASCASARJANA 2024: The Effect of Rare Earth Metal Substitution (Y, Ce, Nd, Gd, Ho) on the Structure, Microstructure, Magnetic Properties, and Microwave Absorption Capability of Lanthanum Orthoferrite (LaFeO₃)</i>	
	<i>Period and any other information</i>	<i>2024-2025</i>	
	<i>Partners, if applicable</i>	<i>Prof. Wei-Song Hung</i>	
	<i>Amount of financing</i>	<i>Rp. 50.000.000</i>	
	<i>Name of project or research focus</i>	<i>PUTI Q1 2024: Hierarchically Structured Nanofiber Membrane as Efficient and Reuseable Materials In Wastewater Treatment Via Advance Oxidation Process</i>	
	<i>Period and any other information</i>	<i>2024-2026</i>	
	<i>Partners, if applicable</i>	<i>Prof. Wei-Song Hung</i>	
	<i>Amount of financing</i>	<i>Rp. 150.000.000</i>	
	<i>Name of project or research focus</i>	<i>PUTI Q1 2024: Piezoelectric Performance of PVDF/Graphene on Melamine Sponges for Sensor Applications</i>	
	<i>Period and any other information</i>	<i>2024-2026</i>	
	<i>Partners, if applicable</i>	<i>Prof. Wei-Song Hung</i>	
	<i>Amount of financing</i>	<i>Rp. 150.000.000</i>	
<i>Name of project or research focus</i>	<i>HIBAH PENELITIAN FMIPA: A Sustainable Approach to Dye and Salt Removal: Utilizing A PVDF and Graphene Oxide Membrane</i>		
<i>Period and any other information</i>	<i>2023-2024</i>		
<i>Partners, if applicable</i>	<i>Prof. Wei-Song Hung</i>		
<i>Amount of financing</i>	<i>Rp. 32.000.000</i>		

	<p><i>Name of project or research focus</i> PUTI Q1 2023: Removal of Dye and Salt Using A Novel Synthetic Polyamide (Pa) Nanofiltration Membrane Modified by Magnetic Graphene Oxide/Melamine</p> <p><i>Period and any other information</i> 2023-2024</p> <p><i>Partners, if applicable</i> Prof. Wei-Song Hung</p> <p><i>Amount of financing</i> Rp. 150.000.000</p>
Industry collaborations over the last 5 years	<p><i>Project title</i> -</p> <p><i>Partners</i> -</p>
Patents and proprietary rights	<p><i>Title</i> Year</p> <p>- -</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> 29</p> <p><i>Author(s)</i> Aditya Rianjanu, Kurniawan Deny Pratama Marpaung, Cindy Siburian, Sephia Amanda Muhtar, Nur Istiqomah Khamidy, Januar Widakdo, Nursidik Yulianto, Rizky Aflaha, Kuwat Triyana, Tarmizi Taher</p> <p><i>Title</i> Enhancement of photocatalytic activity of CeO₂ nanorods through lanthanum doping (La–CeO₂) for the degradation of Congo red dyes</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Results in Engineering 23 (2024) 102748</p> <p><i>Author(s)</i> TM Subrahmanya, Hannah Faye M Austria, Yi-Yun Chen, Owen Setiawan, Januar Widakdo, Mahaveer D Kurkuri, Wei-Song Hung, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</p> <p><i>Title</i> Self-surface heating membrane distillation for sustainable production of freshwater: A state of the art overview</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Progress in Materials Science 145 (2024) 101309</p> <p><i>Author(s)</i> Tsung-Han Huang, Franz Kenneth C Espino, Xin-Yuan Tian, Januar Widakdo, Hannah Faye M Austria, Owen Setiawan, Wei-Song Hung, Kristopher Ray S Pamintuan, Rhoda B Leron, Ching-Yuan Chang, Alvin R Caparanga, Kueir-Rarn Lee, Juin-Yih Lai</p> <p><i>Title</i> Piezocatalytic property of PVDF/Graphene self-assembling piezoelectric membrane for environmental remediation</p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Chemical Engineering Journal 487 (2024) 150569</p>

	<p><i>Author(s)</i> Hannah Faye M Austria, Owen Setiawan, Januar Widakdo, Tsung-Han Huang, TM Subrahmanya, Wei-Song Hung, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</p> <p><i>Title</i> Investigation of the pH-mediated fabrication process of pure and polyethyleneimine-crosslinked graphene oxide membranes for desalination and heavy metal ion separation</p> <p><i>Any other information</i> Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers Carbon 224 (2024) 119019</p>
	<p><i>Author(s)</i> Nadira Ghina Azzahra, Januar Widakdo, Toto Sudiro, Wei-Song Hung, Anawati Anawati</p> <p><i>Title</i> Characteristics of plasma electrolytic oxide coating on magnesium-hydroxyapatite composites</p> <p><i>Any other information</i> Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers Selected recent publications from a total of approx. Materials Letters 356 (2024) 135601</p>
	<p><i>Author(s)</i> Aditya Rianjanu, Kurniawan Deny Pratama Marpaung, Elisabeth Kartini Arum Melati, Rizky Aflaha, Yudha Gusti Wibowo, I Putu Mahendra, Nursidik Yulianto, Januar Widakdo, Kuwat Triyana, Hutomo Suryo Wasisto, Tarmizi Taher</p> <p><i>Title</i> Integrated adsorption and photocatalytic removal of methylene blue dye from aqueous solution by hierarchical Nb₂O₅@PAN/PVDF/ANO composite nanofibers</p> <p><i>Any other information</i> Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers Selected recent publications from a total of approx. Nano Materials Science 6 (2024) 96–105</p>
	<p><i>Author(s)</i> Tsung-Han Huang, Xin-Yuan Tian, Yi-Yun Chen, Januar Widakdo, Hannah Faye M Austria, Owen Setiawan, TM Subrahmanya, Wei-Song Hung, Da-Ming Wang, Ching-Yuan Chang, Chih-Feng Wang, Chien-Chieh Hu, Chia-Her Lin, Yu-Lun Lai, Kueir-Rarn Lee, Juin-Yih Lai</p> <p><i>Title</i> Multifunctional Phra Phrom-like Graphene-Based Membrane for Environmental Remediation and Resources Regeneration</p> <p><i>Any other information</i></p>

	<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>Advanced Functional Materials</i> Volume 34, Issue 7 2308321</p>
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i></p>	<p>Afandi Yusuf, Salva Salshabilla, Bobby Refokry Oeza, Nurul Ika Damayanti, Hairus Abdullah, Januar Widakdo</p> <p>Photocatalytic Oxygen Reduction Reaction to Generate H₂O₂ Over Carbon-Based Nanosheet Catalysts</p>
<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p>Springer Nature Singapore. 95-147, 2024</p>
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i></p>	<p>Januar Widakdo, Grandprix Thomryes Marth Kadja, Anawati Anawati, TM Subrahmanya, Hannah Faye Mercado Austria, Tsung-Han Huang, Edi Suharyadi, Wei-Song Hung</p> <p>Graphene oxide-melamine nanofilm composite membrane for efficient CO₂ gas separation</p>
<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p>Separation and Purification Technology Volume 323, 15 October 2023, 124521</p>
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i></p>	<p>Januar Widakdo, Manuel Reyes De Guzman, Micah Belle Marie Yap Ang, Wei-Song Hung, Shu-Hsien Huang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</p> <p>Positron annihilation spectroscopy for the free volume depth profile analysis of multilayer and 2D materials composite membranes: A review</p>
<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p>Separation and Purification Technology Volume 322, 1 October 2023, 124366</p>
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i></p>	<p>TM Subrahmanya, Jing-Yang Lin, Januar Widakdo, Hannah Faye M Austria, Yu-Hsuan Chiao, Tsung-Han Huang, Wei-Song Hung, Hideto Matsuyama, Kueir-Rarn Lee, Juin-Yih Lai</p> <p>Effect of functionalized nanodiamonds and surfactants mediation on the nanofiltration performance of polyamide thin-film nanocomposite membranes</p>
<p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p>Desalination Volume 555, 1 June 2023, 116540</p>
<p><i>Author(s)</i></p> <p><i>Title</i></p>	<p>Hannah Faye M Austria, Januar Widakdo, Owen Setiawan, TM Subrahmanya, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</p> <p>Tailoring the specific crosslinking sites of graphene oxide framework</p>

	<p><i>nanosheets for controlled nanofiltration of salts and dyes</i></p> <p><i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p><i>Journal of Cleaner Production</i> <i>Volume 395, 1 April 2023, 136280</i></p>
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p><i>TM Subrahmanya, Januar Widakdo, Hannah Faye M Austria, Wei-Song Hung, Mahaveer D Kurkuri, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</i></p> <p><i>Flow-through in-situ evaporation membrane enabled self-heated membrane distillation for efficient desalination of hypersaline water</i></p> <p><i>Chemical Engineering Journal</i> <i>Volume 452, Part 2, 15 January 2023, 139170</i></p>	
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p><i>Januar Widakdo, Wen-Ching Lei, Anawati Anawati, Subrahmanya Thagare Manjunatha, Hannah Faye M Austria, Owen Setiawan, Tsung-Han Huang, Yu-Hsuan Chiao, Wei-Song Hung, Ming-Hua Ho</i></p> <p><i>Effects of Co-Solvent-induced self-assembled graphene-PVDF composite film on piezoelectric application</i></p> <p><i>Polymers 2023, 15(1), 137</i></p>	
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p><i>Januar Widakdo, Tsan-Ming Chen, Meng-Chieh Lin, Jia-Hao Wu, Tse-Ling Lin, Pin-Ju Yu, Wei-Song Hung, Kueir-Rarn Lee</i></p> <p><i>Evaluation of the antibacterial activity of eco-friendly hybrid composites on the base of oyster shell powder modified by metal ions and LLDPE</i></p> <p><i>Polymers 2022, 14(15), 3001</i></p>	
<p><i>Author(s)</i></p> <p><i>Title</i></p> <p><i>Any other information</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p>	<p><i>Januar Widakdo, Tzu-Jung Huang, TM Subrahmanya, Hannah Faye M Austria, Hung-Lung Chou, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</i></p> <p><i>Bioinspired ionic liquid-graphene based smart membranes with electrical tunable channels for gas separation</i></p> <p><i>Applied materials today, Volume 27, June 2022, 101441</i></p>	
<p><i>Author(s)</i></p>	<p><i>J Widakdo, P-W Wu, HFM Austria, W-S Hung, P-J Yu, C-F Wang, C-C Hu, K-R Lee, J-Y Lai</i></p>	

	<p><i>Title</i></p> <p><i>Dual functional GO-Ag incorporated nanocomposite pervaporation membrane with alcohol dehydration performance and enhanced antibacterial property</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>Materials Today Chemistry 24 (2022) 100985</i></p>
	<p><i>Author(s)</i></p> <p><i>TM Subrahmanya, Januar Widakdo, Sivakumar Mani, Hannah Faye M Austria, Wei-Song Hung, HK Makari, Jitendra K Nagar, Chien-Chieh Hu, Juin-Yih Lai</i></p> <p><i>Title</i></p> <p><i>An eco-friendly and reusable syringe filter membrane for the efficient removal of dyes from water via low pressure filtration assisted self-assembling of graphene oxide and SBA-15/PDA</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>Journal of Cleaner Production Volume 349, 15 May 2022, 131425</i></p>
	<p><i>Author(s)</i></p> <p><i>Mani Sivakumar, Januar Widakdo, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</i></p> <p><i>Title</i></p> <p><i>Porous graphene nanoplatelets encompassed with nitrogen and sulfur group for heavy metal ions removal of adsorption and desorption from single or mixed aqueous solution</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>Separation and Purification Technology Volume 288, 1 May 2022, 120485</i></p>
	<p><i>Author(s)</i></p> <p><i>Januar Widakdo, Hannah Faye M Austria, TM Subrahmanya, Edi Suharyadi, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</i></p> <p><i>Title</i></p> <p><i>Switching gas permeation through smart membranes by external stimuli: a review</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>J. Mater. Chem. A, 2022,10, 16743-16760</i></p>
	<p><i>Author(s)</i></p> <p><i>Januar Widakdo, Tsung-Han Huang, TM Subrahmanya, Hannah Faye M Austria, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai</i></p> <p><i>Title</i></p> <p><i>Tailoring of graphene–organic frameworks membrane to enable reversed electrical-switchable permselectivity in CO₂ separation</i></p> <p><i>Any other information</i></p>

	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	Carbon Volume 182, September 2021, Pages 545-558
	<i>Author(s)</i>	TM Subrahmanya, Ahmad Bin Arshad, Po Ting Lin, Januar Widakdo, HK Makari, Hannah Faye M Austria, Chien-Chieh Hu, Juin-Yih Lai, Wei-Song Hung
	<i>Title</i>	<i>A review of recent progress in polymeric electrospun nanofiber membranes in addressing safe water global issues</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	RSC Adv., 2021, 11, 9638-9663
	<i>Author(s)</i>	Hannah Faye M Austria, TM Subrahmanya, Owen Setiawan, Januar Widakdo, Yu-Hsuan Chiao, Wei-Song Hung, Chih-Feng Wang, Chien-Chieh Hu, Kueir-Rarn Lee, Juin-Yih Lai
	<i>Title</i>	<i>A review on the recent advancements in graphene-based membranes and their applications as stimuli-responsive separation materials</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	J. Mater. Chem. A, 2021,9, 21510-21531
	<i>Author(s)</i>	TM Subrahmanya, Po Ting Lin, Yu-Hsuan Chiao, Januar Widakdo, Cheng-Hsiu Chuang, Shaneza Fatma Rahmadhanty, Shiro Yoshikawa, Wei-Song Hung
	<i>Title</i>	<i>High performance self-heated membrane distillation system for energy efficient desalination process</i>
	<i>Any other information</i>	
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	J. Mater. Chem. A, 2021,9, 7868-7880
Activities in specialist bodies over the last 5 years	<i>Organization</i> International Indonesian Scientists Association	<i>Role</i> treasurer <i>Period</i> 2021-now

Name	<i>Nisa Nashrah, Ph.D.</i>		
Position	<i>Lecturer of basic physics and application of nanomaterials</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>post-doctoral researcher (Materials science engineering)</i>	<i>Yeungnam university</i>	<i>2023-2024</i>
	<i>MS-PhD (Materials science engineering)</i>	<i>Yeungnam university</i>	<i>2018-2023</i>
	<i>Bachelor (Material chemistry)</i>	<i>Indonesia university of education</i>	<i>2012-2016</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Junior Lecturer</i>	<i>Universitas Indonesia</i>	<i>2024 - now</i>
Research and development projects over the last 5 years	<p><i>“surface modification of pure titanium by plasma electrolysis and its functional properties” research grant by National Nanofab Centre Korea (Feb 2022- March 2023)</i></p> <p><i>“microstructure modulation of Mg alloy coated by Plasma electrolysis and its corrosion modelling” Project funded by National research fund (NRF) (Feb 2019- March 2022)</i></p>		
Industry collaborations over the last 5 years	<p><i>Posco steel korea (2018-2020) “Research collaboration on high strength-high ductility martensitic steel”</i></p> <p><i>Hyundai motor (2021-2022) “research collaboration on electric vehicle”</i></p>		
Patents and proprietary rights			
Important publications over the last 5 years	<i>Selected recent publications from a total of approx.</i>	<i>(13)</i>	
	<i>Author(s)</i>	<i><u>N Nashrah</u>, A Chaouiki, W Al Zoubi, YG Ko</i>	
	<i>Title</i>	<i>Tuning the reactivity of TiO₂ layer with uniform distribution of Sub-5 nm Fe₂O₃ particles via in situ voltage-assisted oxidation for robust catalytic reduction</i>	
	<i>Any other information</i>		
	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>	<i>Nano Materials Science 6 (2), 223-234. 2023</i>	
	<i>Author(s)</i>	<i><u>Nashrah, N.</u>, Baek, S. H., & Ko, Y. G</i>	

	<p><i>Title</i> <i>Nucleation and growth behavior of coating film on Mg–Al–Zn alloy with different surface topographies via plasma electrolytic oxidation.</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Journal of Magnesium and Alloys, 10(8), 2185-2192. 2022</i></p>						
	<p><i>Author(s)</i> <i>W. Al Zoubi, N. Nashrah, R.A.K. Putri, A.W. Allaf, B. Assfour, Y.G. Ko*</i></p> <p><i>Title</i> <i>Strong dual-metal-support interactions induced by low-temperature plasma phenomenon</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Materials Today Nano 18, 100213. 2022</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Organization</i></th> <th style="text-align: left;"><i>Role</i></th> <th style="text-align: left;"><i>Period</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<i>Organization</i>	<i>Role</i>	<i>Period</i>			
<i>Organization</i>	<i>Role</i>	<i>Period</i>					

Name	<i>Dr.Eng. Anjar Taufik Hidayat, S.Pd., M.Sc.</i>		
Position	<i>Assistant Professor of Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Postdoctoral (Lab. of Advance Photovoltaic and Functional Electronic Devices)</i>	<i>Institution Badan Riset dan Inovasi Nasional</i>	<i>Year 2024</i>
	<i>Doctor of Engineering (Materials Science)</i>	<i>Institution Nara Institute of Science and Technology</i>	<i>Year 2020</i>
	<i>Master of Science (Physics)</i>	<i>Institution Universitas Gadjah Mada</i>	<i>2016</i>
	<i>Sarjana Pendidikan (Fisika) equivalent to Bachelor of Education (Physics)</i>	<i>Institution Universitas Sebelas Maret</i>	<i>Year 2012</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>Institut Teknologi Telkom Purwokerto</i>	<i>2020-2024</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2024-now</i>
Research and development projects over the last 5 years	<i>Hompimpaa.id Platform Acceleration Using AI to Support Digital Economy in the Form of Animation Industry</i>	<i>This research project was a community service endeavor funded by the Ministry of Education in Indonesia. The project spanned one year in 2022. The industrial partner was Hompimpaa.id, and the total funding amounted to \$13,000 USD.</i>	
	<i>Aligned Nanofibers Fabricated Using Electrospinning Method: Effect of Copper Plate Parameters as Collector</i>	<i>This was an internally funded research project supported by the Research and Community Service Section at Institut Teknologi Telkom Purwokerto (now Telkom University Purwokerto Campus). The research spanned a 2-year period starting in 2021, with a total funding of approximately \$800 USD.</i>	
	<i>Structure-Function Relationship of The Organic Thin Films Studied by Conductive Atomic Force Microscopy</i>	<i>This project was an internal research endeavor conducted by the Nara Institute of Science and Technology for its doctoral students. The funding for this 2-year project totaled 2,000 USD, starting in 2019.</i>	
Industry collaborations over the last 5 years	<i>Project title</i>		
	<i>Partners</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>Simple Prototype of Quantum Experiment (Proprietary rights)</i>	<i>2024</i>	

	<p><i>Hagaha: AI-Based Child Assessment Guide Video</i> 2022</p> <p><i>Baro: AI-Based Child Learning Style Assessment</i> 2022</p> <p><i>Qiimee: AI-Based Child Interest and Talent Assessment</i> 2022</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> 7</p> <p><i>Author(s)</i> <i>Pramitha Yuniar Diah Maulida, Sri Hartati, Yuliar Firdaus, Anjar Taufik Hidayat, Lina Jaya Diguna, Dominik Kowal, Annalisa Bruno, Daniele Cortecchia, Arramel Arramel, Muhammad Danang Birowosuto</i></p> <p><i>Title</i> <i>Recent Developments in Low-dimensional Heterostructures of Halide Perovskites and Metal Chalcogenides as Emergent Materials: Fundamental, Implementation, and Outlook</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>AIP Publishing, 30th January 2024, Chem. Phys. Rev. 5, 011303 (2024)Any other information</i></p>
	<p><i>Author(s)</i> <i>Anjar Taufik Hidayat</i></p> <p><i>Title</i> <i>Thickness Optimization of Organic Solar Cell</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Dept. of Physics, Universitas Mataram, 12th December 2022, Chem. Phys. Rev. 5, 011303 (2024)</i></p>
	<p><i>Author(s)</i> <i>Anjar Taufik Hidayat, Hiroaki Benten, Toshiki Kawanishi, Noboru Ohta, Azusa Muraoka, Masakazu Nakamura</i></p> <p><i>Title</i> <i>Electron Transport in Thin Films of Polymer and Small-Molecule Acceptors Visualized by Conductive Atomic Force Microscopy</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>ACS Publications, 22nd June 2021, J. Phys. Chem. C 2021, 125, 25, 13741–13748</i></p>
	<p><i>Author(s)</i> <i>Anjar Taufik Hidayat, Hiroaki Benten, Noboru Ohta, Yunju Na, Azusa Muraoka, Hirotaka Kojima, Min-Cherl Jung, Masakazu Nakamura</i></p>

	<p><i>Title</i></p> <p><i>Enhancement of Short-Range Ordering of Low-Bandgap Donor–Acceptor Conjugated Polymer in Polymer/Polymer Blend Films</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>ACS Publications, 23rd July 2020, Macromolecules 2020, 53, 15, 6630–6639</i></p>						
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<i>Organization</i>	<i>Role</i>	<i>Period</i>					
<i>Physical Society of Indonesia</i>	<i>Member</i>	<i>2020-now</i>					

Name	Dr. Nur Ika Puji Ayu		
Position	<i>Lecturer</i>		
Academic career	Initial academic appointment	Institution	Year
	<i>Postdoctoral</i>	<i>Tokyo Institute of Technology, Japan</i>	<i>2021-2022</i>
	<i>Doctorotae (Ph.D. -Science)</i>	<i>Graduate University for Advanced Studies, SOKENDAI, Japan</i>	<i>2016-2021</i>
	<i>Undergraduate degree (S.T. - Engineering)</i>	<i>Sepuluh Nopember Institute of Technology, Surabaya, Indonesia</i>	<i>2011-2015</i>
Employment	Position	Employer	Period
	<i>Postdoctoral Researcher</i>	<i>All-Solid-State Battery Unit, Institute of Innovative Research, Tokyo Institute of Technology, Japan</i>	<i>2021-2022</i>
	<i>Assistant Professor</i>	<i>Institute of Materials Structure Science, High Energy Accelerator Research Organization – KEK, Japan</i>	<i>2023</i>
	<i>Assistant Professor</i>	<i>Universitas Indonesia</i>	<i>2024 – Present</i>
Research and development projects over the last 5 years	<i>Hydrides Material exploration for material energy application</i>	<i>Tokyo Institute of Technology, Japan</i>	
		<i>Material exploration of superionic conductors, SrMgH_{4-x}F_x and Ba₂MgH₆, and Study of ionic conductors using first-principles density functional theory calculations performed on the supercomputer TSUBAME, Tokyo Tech</i>	
		<i>Supervisor: Professor Ryoji Kanno</i>	
		<i>Period: 2021 – 2022</i>	
		<i>Partners: KEK, AGC.Inc</i>	
	<i>Exploration of novel oxyhydrides materials</i>	<i>Department for Molecular Science, NINS, Aichi, Japan</i>	
		<i>Exploration of oxyhydroxides with gallium in (Ba,Sr)₃GaHO₄.</i>	
		<i>Supervisors:</i>	
		<i>Professor Takashi Kamiyama (IMSS, KEK)</i>	
		<i>Associate Professor Genki Kobayashi (IMS, NINS)</i>	
		<i>Funding: SOKENDAI Student Dispatch Program 2019. (400,000~500,000¥)</i>	
		<i>Period: 2017 – 2021</i>	

	<p><i>Study of hydrides superionic conductor</i></p> <p><i>Department for Molecular Science, NINS, Aichi, Japan</i> <i>Study of hydride ions conduction mechanism in the deuterated superionic hydrides Ba_{1.75}LiD_{2.7}O_{0.9}.</i> <i>Supervisors:</i> <i>Professor Takashi Kamiyama (IMSS, KEK)</i> <i>Associate Professor Genki Kobayashi (IMS, NINS)</i> <i>Funding: SOKENDAI Student Dispatch Program 2020. (500,000~600,000¥)</i> <i>Period: 2020 – 2021</i></p>																				
Industry collaborations over the last 5 years	<p><i>Hydrides Material exploration for material energy application</i></p> <p><i>Company: AGC. Inc Japan (2021-2022)</i></p>																				
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	<p><i>Ika Puji Ayu, Masao Yonemura, Ryoji Kanno, Genki Kobayashi.</i></p> <p><i>Title</i></p> <p><i>Ba₂ScHO₃: H⁻ conductive Layered Oxyhydride with H⁻ Site Selectivity</i></p> <p><i>Any other information</i></p> <p><i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i></p> <p><i>Inorg. Chem., Vol. 58, No. 7, pp. 4431-4436, Apr. 2019.</i></p>						
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