

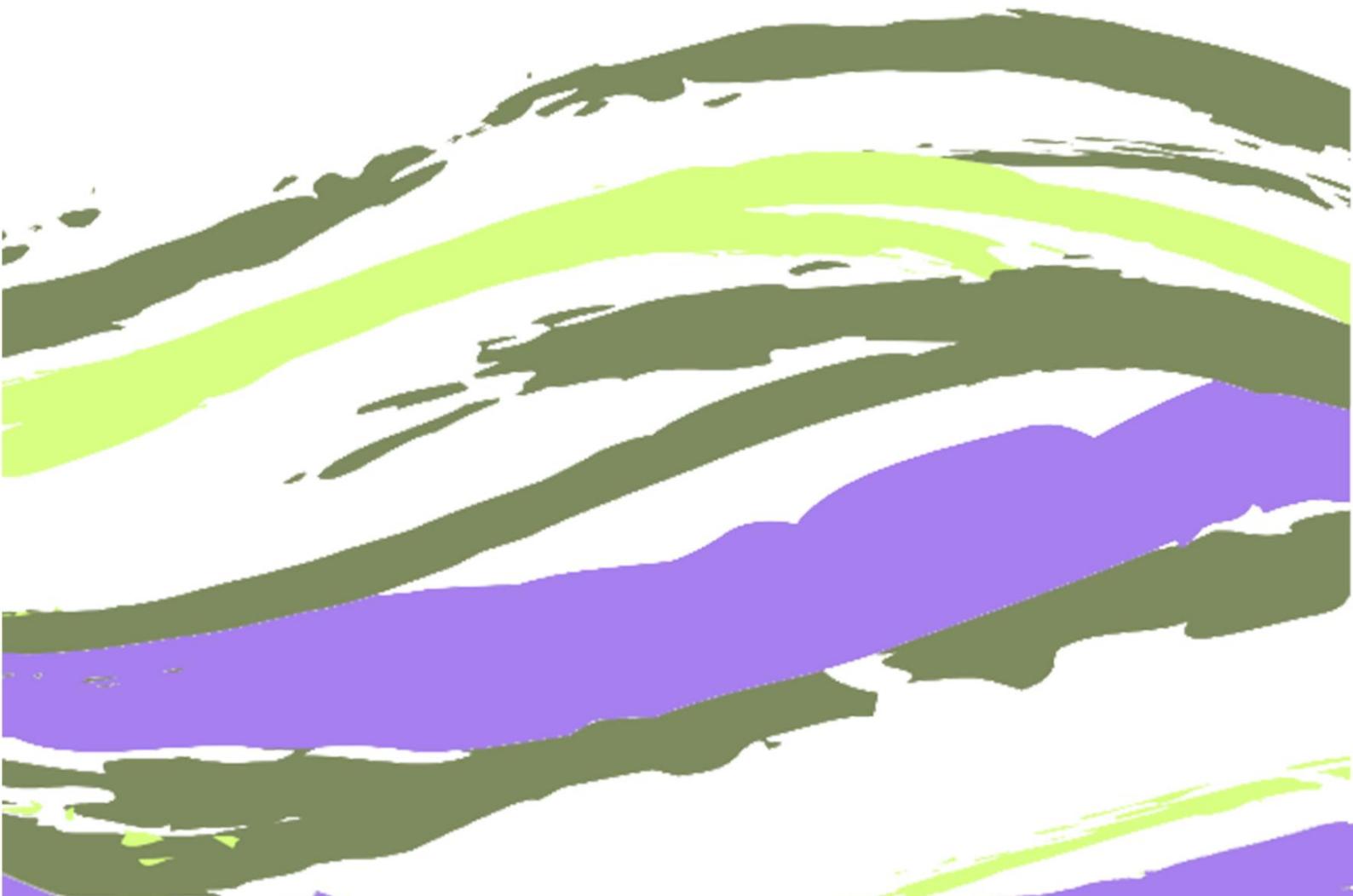


IPB University
— Bogor Indonesia —

STAFF HANDBOOK

Bachelor of Physics & Master of Biophysics

**DEPARTEMENT OF PHYSICS
FACULTY OF MATHEMATICS & NATURAL SCIENCES
IPB UNIVERSITY
2023**



Name	<i>Abdul Djamil Husin, S.Si, M.Si.</i>		
Post	<i>Theoretical Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Master (Physics)</i>	<i>Gadjah Mada University</i>	<i>2002</i>
	<i>Undergraduate degree (Physics)</i>	<i>Gadjah Mada University</i>	<i>1995</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2006 – present</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years			
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
Important publications over the last 5 years			
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
Website	<i>https://physics.ipb.ac.id/adh/</i>		

Name	<i>Ardian Arif Setiawan, S.Si., M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i> <i>Master (Physics)</i>	<i>Institute</i> <i>University of Indonesia</i>	<i>Year</i> <i>2006</i>
	<i>Undergraduate degree (Physics)</i>	<i>Brawijaya University</i>	<i>1997</i>
Employment	<i>Position</i> <i>Assistant Professor</i>	<i>Employer</i> <i>IPB University</i>	<i>Period</i> <i>2011–Present</i>
Research and development projects over the last 5 years	<p><i>Title: Penumbuhan Film Tipis Bahan Ferroelektrik LiNbO₃ yang Didadah Rutenium (LRN) dan Penerapannya sebagai Sel Surya berbantukan Fotonik Kristal. (Growth of Ferroelectric Thin Film Ruthenium (LRN) doped LiNbO₃ and its application as Photonic crystal assisted Solar Cell)</i></p> <p><i>Period: 2017-2019</i></p> <p><i>Amount of Financing: IDR. 442.852.075 (EUR. 26921,46)</i></p>		
Industry collaborations over the last 5 years			
Patents and proprietary rights	<i>Title</i> <i>Metode Pembuatan Film Tipis Berbasis Barium Titanat (BaTiO₃)</i>	<i>Year</i> <i>2021</i>	
	<i>Alat Ukur Kadar Gula Dalam Darang Secara Non-Invasive</i>		<i>2015</i>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (1 Published article since 2019):</i></p> <p><i>Authors: Agus Kartono, Iim Abdul Mafahir, Setyanto Tri Wahyudi, Ardian Arif Setiawan , Tony Sumaryada</i></p>		

	<p>Title: <i>A New Method for Estimating Diagnostic Parameters in the Dynamics Model of Modified Glucose-Insulin Homeostasis from the Oral Glucose Tolerance Test Using a Gravitational Search Algorithm</i></p> <p><i>Springer, Arabian Journal for Science and Engineering, 13 July 2021, 47, 989-1001, https://doi.org/10.1007/s13369-021-05945-5</i></p>		
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
Websites	<i>https://physics.ipb.ac.id/aas/</i>		

Name	<i>Dr. Agus Kartono, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (physics)</i>	<i>Bandung Institute of Technology</i>	<i>2006</i>
	<i>Master (Physics)</i>	<i>Bandung Institute of Technology</i>	<i>1998</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>Associate Professor</i>	<i>IPB University</i>	<i>2017–Present</i>
Research and development projects over the last 5 years	<p>Title: <i>Sinerigitas Konsorsium Mikrob <i>Saccharomyces Cerevisiae</i> dan <i>Bacillus, Sp.</i> Sebagai Biosensor Etanol. (Synergy of the Microbial Consortium of <i>Saccharomyces Cerevisiae</i> and <i>Bacillus, Sp.</i> As Ethanol Biosensor.)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 50.000.000 (EUR. 3039,55)</p> <p>Title: <i>Aboveground Biodiversity Patterns and Processes Across Rainforest Transformation Landscapes (Efforts)</i></p> <p><i>Period:</i> 2020</p> <p><i>Amount of Financing:</i> IDR. 320.000.000 (EUR. 19453,15)</p> <p>Title: <i>Screening Potensi Senyawa Tanaman Obat Sebagai Anti Malaria Dengan Target <i>P. falciparum</i> Signal Peptida Peptidase dan Hexose Transporter Melalui Metode Docking dan Simulasi Dinamika Molekul. (Potential Screening of Medicinal Plant Compounds as Anti-Malaria with <i>P. falciparum</i> Signal Peptide Peptidase and Hexose Transporter as</i></p>		

	<p><i>a Target Through Docking Method and Molecular Dynamics Simulation.)</i></p> <p><i>Period: 2018-2019</i></p> <p><i>Amount of Financing: IDR. 410.355.000 (EUR. 24945,93)</i></p> <p><i>Title: Perancangan dan Pembuatan Perangkat Lunak Model Pharmacokinetic/Pharmacodynamics untuk Diagnosis dan Terapi Pre-Diabetes Tipe 2.(Design and Software Development of Pharmacokinetic/pharmacodynamics based on diagnosis and therapy of type-2 Pre-Diabetes)</i></p> <p><i>Period: 2017-2018</i></p> <p><i>Amount of Financing: IDR. 283.887.000 (EUR. 17257,80)</i></p>
Industry collaborations over the last 5 years	
Patents and proprietary rights	<p><i>Title</i></p> <p><i>Year</i></p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i></p> <p><i>(23 Published articles since 2019):</i></p> <p><i>Authors: Agus Kartono, Iim Abdul Mafahir, Setyanto Tri Wahyudi, Ardian Arif Setiawan , Tony Sumaryada</i></p> <p><i>Title: A New Method for Estimating Diagnostic Parameters in the Dynamics Model of Modified Glucose-Insulin Homeostasis from the Oral Glucose Tolerance Test Using a Gravitational Search Algorithm</i></p> <p><i>Springer, Arabian Journal for Science and Engineering, 13 July 2021,47, 989-1001, https://doi.org/10.1007/s13369-021-05945-5</i></p> <p><i>Authors: Agus Kartono, Siti Solekha, Tony Sumaryada, Irmansyah</i></p>

	<p>Title: <i>Foreign currency exchange rate prediction using non-linear Schrödinger equations with economic fundamental parameters</i></p> <p><i>Elsevier, Chaos, Solitons & Fractals, November 2021, 152, 111320,</i> https://doi.org/10.1016/j.chaos.2021.111320</p> <p>Authors: Agus Kartono, Marina Febriyanti, Setyanto Tri Wahyudi</p> <p>Title: <i>Predicting foreign currency exchange rates using the numerical solution of the incompressible Navier–Stokes equations.</i></p> <p><i>North-Holland, Physica A: Statistical Mechanics and its Applications, 2020/12/15, 560, 125191,</i> https://doi.org/10.1016/j.physa.2020.125191.</p>	
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>
Website	https://physics.ipb.ac.id/aka/	

Name	<i>Dr. Erus Rustami, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Chemistry)</i>	<i>Nara Institute of Science and Technology</i>	<i>2020</i>
	<i>Master (Biophysics)</i>	<i>IPB University</i>	<i>2012</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2008</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2018–Present</i>
Research and development projects over the last 5 years	<p><i>Title: Sistem Deteksi Suara Dan Suhu Sarang Lebah Apis Cerana Berbasis Internet Of Things (IoT) Untuk Monitoring Kesehatan Koloni. (Internet of Things (IoT) based Sound and Temperature Detection System for Apis Cerana Beehive colony health monitoring)</i></p> <p><i>Period: 2022 - present</i></p> <p><i>Partner: Indonesia National Ministry of Research and innovation</i></p> <p><i>Amount of Financing: IDR. 30.000.000 (EUR. 1833,15)</i></p> <p><i>Title: Sustainable Bee Smart System Pengembangan Biodiversitas Lebah Sebagai Layanan Ekosistem Dan Kesehatan (Sustainable Bee Smart System Development of Bee Biodiversity as an Ecosystem and Health Service)</i></p> <p><i>Period: 2020</i></p> <p><i>Partner: Indonesia National Ministry of Research and innovation</i></p> <p><i>Amount of Financing: IDR. 59.000.000 (EUR. 3605,19)</i></p>		

Industry collaborations over the last 5 years		
Patents and proprietary rights	<p><i>Title</i></p> <p><i>Alat Ukur Kadar Gula Dalam Darah Secara Non-Invasive (Non-Invasive Blood sugar concentration monitoring device)</i></p> <p><i>Sensor Optik Berbasis Kristal Fotonik Untuk Kendali Mutu Larutan Secara Waktu Nyata dan Kontinu (Photonic Crystal-Based Optical Sensors For Real and Continuous time Solution Quality Control)</i></p> <p><i>Sistem Pendekripsi Nirkabel Gas Nitrogen Dioksida (NO₂) Berbasis Sensor Kristal Fotonik dan Efek Beer Lambert (Nitrogen Dioxide (NO₂) Gas Wireless Detection System Based on Photonic Crystal Sensors and the Beer Lambert Effect)</i></p>	<p><i>Year</i></p> <p>2015</p> <p>2013</p> <p>2012</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i></p> <p><i>(11 Published articles since 2019):</i></p> <p><i>Authors:</i> Erus Rustami, Kiyotaka Sasagawa, Kenji Sugie, Yasumi Ohta, Makito Haruta, Toshihiko Noda, Takashi Tokuda, Jun Ohta</p> <p><i>Title: Needle-Type Imager Sensor with Band-Pass Composite Emission Filter and Parallel Fiber-Coupled Laser Excitation</i></p> <p><i>IEEE Transactions on Circuits and Systems I: Regular Papers</i>, 27 February 2020, Vol 67(4), 1082-1091, https://doi.org/10.1109/TCSI.2019.2959592</p> <p><i>Authors:</i> Erus Rustami, Kiyotaka Sasagawa, Kenji Sugie, Yasumi Ohta, Hironari Takehara, Makito Haruta, Hiroyuki Tashiro, Jun Ohta</p> <p><i>Title: Thin and Scalable Hybrid Emission Filter via Plasma Etching for Low-Invasive Fluorescence Detection.</i></p> <p><i>MDPI, Sensors</i>, 3 April 2023, Vol.23(7), 3695, https://doi.org/10.3390/s23073695</p>	

	<p><i>Authors: Mohamad Izzat Azmer, Kiyotaka Sasagawa, Erus Rustami, Kenji Sugie, Yasumi Ohta, Makito Haruta, Hironari Takehara, Hiroyuki Tashiro, Jun Ohta</i></p> <p><i>Title: Miniaturized LED light source with an excitation filter for fluorescent imaging</i></p> <p><i>IOP Publishing, Japanese Journal of Applied Physics, 2 March 2021, vol 60(SB), pages SBBG07, https://doi.org/10.35848/1347-4065/abe5bf</i></p>
Activities in specialist bodies over the last 5 years	<i>Organization</i> <i>Role</i> <i>Period</i>
Website	https://physics.ipb.ac.id/ers/

Name	<i>Dr. Faozan, M.Si.</i>		
Post	<i>Theoretical and Computational Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>Bandung Institute of Technology</i>	<i>2019</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2007</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2003</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer</i>	<i>IPB University</i>	<i>2009 – present</i>
Research and development projects over the last 5 years	<p>Title: <i>Riset kolaborasi Indonesia - the refinement model of acetylcholine hydrolysis: a computational approach for understanding Alzheimer's disease through density-functional calculations</i></p> <p>Period: <i>2020</i></p> <p>Amount of Financing: <i>IDR. 50.000.000 (EUR. 3058,17)</i></p>		
Industry collaborations over the last 5 years	<p>Project title</p> <p>Partners</p>		
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (12 published articles since 2019):</i></p> <p><i>Authors:</i> <i>Faozan Ahmad, Mohammad Kemal Agusta, Ryo Maezono, Hermawan Kresno Dipojono</i></p>		

	<p>Title: DFT + U study of H₂O adsorption and dissociation on stoichiometric and nonstoichiometric CuO(1 1 1) surfaces</p> <p>IOP Publishing, Journal of Physics: Condensed Matter, 2019/10/25, Vol 32(4), Pages 045001, Doi: 10.1088/1361-648X/ab4b34</p> <p>Authors: Hendradi Hardhienata, Faozan Ahmad, Mimin Aminah, Djulia Onggo, Lina J Diguna, Muhammad D Birowosuto, Marcin E Witkowski, Michal Makowski, Winicjusz Drozdowski</p> <p>Title: Optical and x-ray scintillation properties of X₂MnCl₄(X = PEA, PPA) perovskite crystals</p> <p>IOP Publishing, Journal of Physics D: Applied Physics, 2020/8/13, Volume 53(45), Pages 455303, Doi: 10.1088/1361-6463/aba461</p> <p>Authors: Permono Adi Putro, Akhiruddin Maddu, Hendradi Hardhienata, Isnaeni Isnaeni, Faozan Ahmad, Hermawan Kresno Dipojono</p> <p>Title: Revealing the incorporation of an NH₂ group into the edge of carbon dots for H₂O₂ sensing via the C–N···H hydrogen bond interaction</p> <p>Physical Chemistry Chemical Physics, 2023, vol 25 (3), 2606-2617, Doi: https://doi.org/10.1039/D2CP04097B</p>		
Activities in specialist bodies over the last 5 years	Organization	Role	Period
Websites	https://physics.ipb.ac.id/fao/		

Name	<i>Dr. Hendradi Hardhienata, M.Si.</i>		
Post	<i>Theoretical and Computational Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>Johannes Kepler University Linz</i>	<i>2015</i>
	<i>Master (Physics)</i>	<i>Bandung Institute of technology</i>	<i>2008</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2005</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2019 – present</i>
Research and development projects over the last 5 years	<p>Title: <i>Kajian Dinamika dan Karakteristik Sistem Kompleks Berdasarkan Pemodelan Berbasis Agen dan Teori Kerapatan Fungsional (Study of Dynamics and Characteristics of Complex Systems Based on Agent-Based Modeling and Density Functional Theory)</i></p> <p>Period: 2021-2023</p> <p>Amount of Financing: IDR. 341.986.000 (EUR. 20969,78)</p> <p>Title: <i>Optimisasi dan Karakterisasi Permukaan Film Tipis Sel Surya menggunakan Metode nano optik berbasis Simplified Bond Hyperpolarizability Model (SBHM) (Optimization and Characterization of Thin Film Solar Cell Surfaces using the Simplified Bond Hyperpolarizability Model (SBHM) based nano-optical method)</i></p> <p>Period: 2019</p> <p>Amount of Financing: IDR. 161.972.000 (EUR. 9856,84)</p>		

	<p>Title: <i>Pembuatan Sensor Spektrum Warna Berbasis Film Tipis Litium Tantalate (LiTaO₃) Didadah Indium Oksida (In₂O₃) (Manufacture of Color Spectrum Sensors Based on Thin Film Lithium Tantalate (LiTaO₃) Doped Indium Oxide (In₂O₃))</i></p> <p>Period: 2019</p> <p>Amount of Financing: IDR. 149.250.000 (EUR. 9082,64)</p>		
Industry collaborations over the last 5 years			
Patents and proprietary rights	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><i>Title</i></th> <th style="text-align: right; width: 70%;"><i>Year</i></th> </tr> </thead> </table>	<i>Title</i>	<i>Year</i>
<i>Title</i>	<i>Year</i>		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (18 published articles since 2019):</i></p> <p><i>Authors:</i> Hendradi Hardhienata, Faozan Ahmad, Mimin Aminah, Djulia Onggo, Lina J Diguna, Muhammad D Birowosuto, Marcin E Witkowski, Michal Makowski, Winicjusz Drozdowski</p> <p>Title: <i>Optical and x-ray scintillation properties of X₂MnCl₄ (X= PEA, PPA) perovskite crystals</i></p> <p>IOP Publishing, Journal of Physics D: Applied Physics, 2020/8/13, Vol 53(45), pages 455303, Doi: 10.1088/1361-6463/aba461</p> <p><i>Authors:</i> Hendradi Hardhienata, Adalberto Alejo-Molina, Muhammad Danang Birowosuto, Amirreza Baghbanpourasl, Husin Alatas</p> <p>Title: <i>Spatial dispersion contribution to second harmonic generation in inversion-symmetric materials.</i></p> <p>American Physical Society, Physical Review B, 2021/3/8, Vol 103(12), Pages 125410, Doi: https://doi.org/10.1103/PhysRevB.103.125410</p> <p><i>Authors:</i> Hendradi Hardhienata, Faozan Ahmad, Mimin Aminah, Djulia Onggo, Lina J Diguna, Muhammad D Birowosuto, Marcin E Witkowski, Michal Makowski, Winicjusz Drozdowski</p>		

	<p><i>Title: Optical and x-ray scintillation properties of X₂MnCl₄(X = PEA, PPA) perovskite crystals.</i></p> <p><i>American Physical Society, Physical Review B, 2021/3/8, Vol 103(12), Pages 125410, Doi: 10.1088/1361-6463/aba461</i></p>
Activities in specialist bodies over the last 5 years	<i>Organization</i> <i>Role</i> <i>Period</i>
Website	https://physics.ipb.ac.id/hhd/

Name	<i>Dr. Heriyanto Syafutra, M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>Nara University of Science and Technology</i>	<i>2021</i>
	<i>Master (Physics)</i>	<i>IPB University</i>	<i>2010</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2008</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer</i>	<i>IPB University</i>	<i>2014–Present</i>
Research and development projects over the last 5 years	<p><i>Title: Penumbuhan Film Tipis Bahan Ferroelektrik LiNbO_3 yang Didadah Rutenium (LRN) dan Penerapannya sebagai Sel Surya berbantukan Fotonik Kristal. (Growth of Ruthenium-Doped LiNbO_3 Ferroelectric Materials (LRN) and Their Application as Photonic Crystal-Assisted Solar Cells.)</i></p> <p><i>Period: 2017-2019</i></p> <p><i>Amount of Financing: IDR. 442.852.075 (EUR. 26921,46)</i></p>		
Industry collaborations over the last 5 years			
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>Metode Pembuatan fFilm Tipis Berbasis Barium Titanat (BaTiO_3) (Method for Preparation of Barium Titanate (BaTiO_3) Based Thin Films)</i>	<i>2021</i>	
	<i>Alat Pengumpul Ikan Menggunakan Larutan Cumi Cumi (Fish Collecting Tool Using Squid Squid Solution)</i>	<i>2021</i>	

Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (11 Published articles since 2019):</i></p> <p><i>Authors:</i> Manish Pandey, Heriyanto Syafutra, Nikita Kumari, Shyam S Pandey, Ryo Abe, Hiroaki Benten, Masakazu Nakamura</p> <p><i>Title:</i> Extreme orientational uniformity in large-area floating films of semiconducting polymers for their application in flexible electronics.</p> <p>American Chemical Society, ACS Applied Materials & Interfaces, 2021/8/6, 13(32), 38534-38543, https://doi.org/10.1021/acsami.1c09671</p> <p><i>Authors:</i> Heriyanto Syafutra, Jung-Ho Yun, Yuya Yoshie, Miaoqiang Lyu, Sakura Nishino Takeda, Masakazu Nakamura, Lianzhou Wang, Min-Cherl Jung</p> <p><i>Title:</i> Surface Degradation Mechanism on CH₃NH₃PbBr₃ Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation.</p> <p>MDPI, Nanomaterilas, 2020/6/28, 10(7), 1253, https://doi.org/10.1021/acsami.1c09671</p> <p><i>Author:</i> Heriyanto Syafutra, Jumpei Toyoda, Manish Pandey, Nikita Kumari, Hiroaki Benten, Masakazu Nakamura</p> <p><i>Title:</i> Perfectness of the main-chain alignment in the conjugated polymer films prepared by the floating film transfer method.</p> <p>AIP Publishing LLC, Applied Physics Letters, 2022/5/16, 120(20), 203301, https://doi.org/10.1063/5.0088011</p> <p><i>Author:</i> Irzaman, Nurul Khomariah N, Heriyanto Safutra, Muhammad Nur Aidi, Husin Alatas & Hendradi Hardhienata</p> <p><i>Title:</i> The structure and optical properties of lithium niobate thin film (LiNbO₃) grown on silicon for various lanthanum concentrations and molarity</p> <p>Ferroelectrics, 589:1, 12-21, DOI: 10.1080/00150193.2021.1984768</p>
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	<p><i>Author: Irzaman, Ridwan Siskandar, Renan Prasta Jenie, Heriyanto Syafutra, Muhammad Iqbal, Brian Yuliarto, Mochammad Zakki Fahmi, Ferdiansjah, Khairurrijal,</i></p> <p><i>Title: Ferroelectric sensor $BaxSr_{1-x}TiO_3$ integrated with android smartphone for controlling and monitoring smart street lighting,</i></p> <p><i>Journal of King Saud University - Science, Volume 34, Issue 6, 2022, 102180, ISSN 1018-3647, https://doi.org/10.1016/j.jksus.2022.102180.</i></p> <p><i>Author: Heriyanto Syafutra, Manish Pandey, Nikita Kumari, Shyam S. Pandey, Hiroaki Benten, Masakazu Nakamura,</i></p> <p><i>Title: Assisted alignment of conjugated polymers in floating film transfer method using polymer blend,</i></p> <p><i>Thin Solid Films, Volume 734, 2021, 138814, ISSN 0040-6090, https://doi.org/10.1016/j.tsf.2021.138814.</i></p> <p><i>Author: Nikita Kumari, Manish Pandey, Heriyanto Syafutra, Shuichi Nagamatsu, Masakazu Nakamura, and Shyam S. Pandey</i></p> <p><i>Title: Solvent-Assisted Friction Transfer Method for Fabricating Large-Area Thin Films of Semiconducting Polymers with Edge-On Oriented Extended Backbones</i></p> <p><i>ACS Applied Materials & Interfaces 2020 12 (49), 55033-55043</i></p> <p><i>DOI: 10.1021/acsami.0c14874</i></p> <p><i>Author: Sumaryada, T.; Fitriansyah, P.; Sofyan, A.; Syafutra, H.</i></p> <p><i>Title: Modeling the Output Performance of $Al_0.3Ga_0.7As/InP/Ge$ Triple-Junction Solar Cells for a Venus Orbiter Space Station.</i></p> <p><i>Photonics, 2019, 6, 46. https://doi.org/10.3390/photonics6020046</i></p>		
Activities in specialist bodies over the last 5 years	Organization	Role	Period

Website

<https://physics.ipb.ac.id/hsy/>

Name	<i>Dr. Ir. Irmansyah, M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>IPB University</i>	<i>2009</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2000</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>1992</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>IPB University</i>	<i>2007–Present</i>
Research and development projects over the last 5 years	<p>Title: <i>Pengembangan untuk Hilirisasi Rompi Anti Peluru Berbahan Biomass Tandan Sawit (Development for Downstreaming of Bulletproof Vests Made from Palm Bunch Biomass)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 250.000.000 (EUR. 15238,49)</p> <p>Title: <i>Optimasi Hingga Implementasi Pengolahan Limbah Padat Sawit Sebagai Material Filler Polimer Aplikasi Komponen Otomotif Dan Bahan Anti Peluru Untuk Diversifikasi Produk (Optimization to Implementation of Palm Solid Waste Treatment as Polymer Filler Material Application of Automotive Components and Bulletproof Materials for Product Diversification)</i></p> <p><i>Period:</i> 2020</p> <p><i>Amount of Financing:</i> IDR. 1.500.000.000 (EUR. 91430,91)</p> <p>Title: <i>Eksplorasi Dan Pemanfaatan Eksoskeleton Undur-Undur Laut Tropika (Crustacea: Emerita Sp.) Untuk Menghasilkan Material Biomedis Terbarukan (Exploration and Utilization of Tropical Ocean Grasshopper (Crustacea: Emerita Sp.) Exoskeletons to Produce Renewable Biomedical Materials)</i></p>		

	<i>Period: 2019</i> <i>Amount of Financing: IDR. 160.000.000 (EUR. 9752,63)</i>								
Industry collaborations over the last 5 years									
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Alat Penyemprot Disinfektan Otomatis yang Dilengkapi Aromaterapi untuk Mencegah Penularan Virus Melalui Udara (Automatic Disinfectant Sprayer Equipped with Aromatherapy to Prevent Virus Transmission Through the Air)</i></td> <td>2021</td> </tr> <tr> <td><i>Komposisi Biokomposit Filler Serat Tandan Kosong Kelapa Sawit Sebagai Pengganti Komponen Otomotif Berpenguatan Serat Sintesis (Biocomposite Composition of Oil Palm Empty Bunch Fiber Filler as a Substitute for Synthetic Fiber Reinforced Automotive Components)</i></td> <td>2020</td> </tr> <tr> <td><i>Alat Ekstraksi Minyak Serai Wangi Dengan Metode Ohmic Heating (Fragrant Lemongrass Oil Extraction Tool With Ohmic Heating Method)</i></td> <td>2017</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Alat Penyemprot Disinfektan Otomatis yang Dilengkapi Aromaterapi untuk Mencegah Penularan Virus Melalui Udara (Automatic Disinfectant Sprayer Equipped with Aromatherapy to Prevent Virus Transmission Through the Air)</i>	2021	<i>Komposisi Biokomposit Filler Serat Tandan Kosong Kelapa Sawit Sebagai Pengganti Komponen Otomotif Berpenguatan Serat Sintesis (Biocomposite Composition of Oil Palm Empty Bunch Fiber Filler as a Substitute for Synthetic Fiber Reinforced Automotive Components)</i>	2020	<i>Alat Ekstraksi Minyak Serai Wangi Dengan Metode Ohmic Heating (Fragrant Lemongrass Oil Extraction Tool With Ohmic Heating Method)</i>	2017
<i>Title</i>	<i>Year</i>								
<i>Alat Penyemprot Disinfektan Otomatis yang Dilengkapi Aromaterapi untuk Mencegah Penularan Virus Melalui Udara (Automatic Disinfectant Sprayer Equipped with Aromatherapy to Prevent Virus Transmission Through the Air)</i>	2021								
<i>Komposisi Biokomposit Filler Serat Tandan Kosong Kelapa Sawit Sebagai Pengganti Komponen Otomotif Berpenguatan Serat Sintesis (Biocomposite Composition of Oil Palm Empty Bunch Fiber Filler as a Substitute for Synthetic Fiber Reinforced Automotive Components)</i>	2020								
<i>Alat Ekstraksi Minyak Serai Wangi Dengan Metode Ohmic Heating (Fragrant Lemongrass Oil Extraction Tool With Ohmic Heating Method)</i>	2017								
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (25 Published articles since 2019):</i></p> <p><i>Authors: Rezeki, Mila Seri, Idham Sakti Harahap, Dewi Sartiami, Irmansyah Irmansyah, And Gillian W. Watson.</i></p> <p><i>Title: Identification key to nymphal and adult mealybugs (Hemiptera: Pseudococcidae) associated with dragon fruits in indonesia</i></p> <p><i>Biodiversitas Journal of Biological Diversity 22(8),</i> <i>https://doi.org/10.13057/biodiv/d220804</i></p> <p><i>Authors: Siti Nikmatin; Irmansyah Irmansyah; Endah Kinarya Palupi; Rofiqul Umam; Tarun Agarwal</i></p>								

	<p><i>Title: Characteristics of Bulletproof Vests Made from COPEFB Fiber: Implications on Mechanical, Electrical, and Physical Resistance.</i></p> <p><i>International Journal of Biomaterilas, 12 may 2023, 2003, 9475956,</i> https://doi.org/10.1155/2023/9475956</p> <p><i>Authors: Agus Kartono, Siti Solekha, Tony Sumaryada, Irmansyah</i></p> <p><i>Title: Foreign currency exchange rate prediction using non-linear Schrödinger equations with economic fundamental parameters</i></p> <p><i>Elsevier, Chaos, Solitons & Fractals, November 2021, Vol 152, 111320,</i> https://doi.org/10.1016/j.chaos.2021.111320</p>
Activities in specialist bodies over the last 5 years	<i>Organization</i> <i>Role</i> <i>Period</i>
Website	https://physics.ipb.ac.id/irm/

Name	<i>Prof. Dr. Ir. Irzaman, M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>Bandung Institute of Technology</i>	<i>2005</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>1997</i>
	<i>Undergraduate degree (Agrometeorology)</i>	<i>IPB University</i>	<i>1988</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor of Physics</i>	<i>IPB University</i>	<i>2023–Present</i>
Research and development projects over the last 5 years	<p><i>Title: Implementasi Sensor $Ba_{0.5}Sr_{0.5}TiO_3$ (BST) Yang Didadah RuO_2 Sebagai Pendekripsi Dini Diabetes Militus Dengan Metode Non-Invasive Berbasis Hembusan Bau Mulut (Implementation of $Ba_{0.5}Sr_{0.5}TiO_3$ (BST) Sensor Infused with RuO_2 as Early Detector of Diabetes Militus Using Non-Invasive Methods Based on Bad Breath)</i></p> <p><i>Period: 2022 - 2024</i></p> <p><i>Amount of Financing: IDR. 575.000.000 (EUR.35014,06)</i></p> <p><i>Title: Pengembangan Material Sensor Selektif Limbah Ion Emas Berbasis Carbon Dots Asam Humat Terfunktionalisasi Asam Amino Sistein (Development of Gold Ion Selective Sensor Material Based on Carbon Dots Humic Acid Functionalized Amino Cysteine)</i></p> <p><i>Period: 2023</i></p> <p><i>Amount of Financing: IDR. 49.000.000 (EUR. 2983,81)</i></p> <p><i>Title: Kemandirian Bangsa dalam Teknologi Proses Pembuatan Alat Pengukuran Kadar HB Darah Non-invasif. (The Independence of the Nation in the Manufacturing Process of Non-Invasive HB Blood Level Measuring Instruments)</i></p>		

	<p><i>Period: 2021-2022</i></p> <p><i>Amount of Financing: IDR. 3.403.400.000 (EUR. 207246,68)</i></p> <p><i>Title: Pengembangan Biosensor Elektrokimia Berbasis Metal Oragnik Framework (MOF) Untuk Deteksi Cepat dan Akurat Salmonella pada Pangan (Development of Electrochemical Biosensor Based on Metal-Organic Framework (MOF) for Fast and Accurate Detection of Salmonella in Food)</i></p> <p><i>Period: 2022</i></p> <p><i>Amount of Financing: IDR. 50.000.000 (EUR.3044,70)</i></p> <p><i>Title: Smart Sensor SUhu Berbasis Film Tipis Pyroelektrik Barium Titanat ($BATiO_3$) Didadah Litium (1) Asetat ($Li(CH_3COO)$) (Pyroelectric Thin Film Based Smart Temperature Sensor Barium Titanate ($BATiO_3$) Doped Lithium (1) Acetate ($Li(CH_3COO)$))</i></p> <p><i>Period: 2022</i></p> <p><i>Amount of Financing: IDR.70.000.000 (EUR. 4262,58)</i></p> <p><i>Title: Pembuatan sensor tekanan berbasis bahan piezoelektrik film tipis barium strontium titanat ($Ba_{0,5}Sr_{0,5}TiO_3$) didadah cerium (studi kasus detak jantung janin) (synthesis of a pressure sensor based on a thin film piezoelectric material of barium strontium titanate ($Ba_{0,5}Sr_{0,5}TiO_3$) doped with cerium (case study of fetal heartbeat))</i></p> <p><i>Period: 2022</i></p> <p><i>Amount of Financing: IDR. 119.325.000 (EUR. 7266,18)</i></p> <p><i>Title: Pengembangan Material Sensor Selektif Limbah Ion Emas Berbasis Carbon Dots Asam Humat Terfunktionalisasi Asam Amino Sistein (Development of Gold Ion Selective Sensor Material Based on Carbon Dots Humic Acid Functionalized Amino Cysteine)</i></p> <p><i>Period: 2022</i></p> <p><i>Amount of Financing: IDR. 49.500.000 (EUR.3014,25)</i></p>
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Industry collaborations over the last 5 years		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>
	<i>Metode Pengukuran Kadar Hemoglobin Darah Secara Non Invasif (Non-Invasive Method of Measuring Blood Hemoglobin Levels)</i>	2022
	<i>Metode Pembuatan Film Tipis Berbasis Litium Niobat ($LiNbO_3$) (Methods for Manufacturing Thin Films Based on Lithium Niobate ($LiNbO_3$))</i>	2021
	<i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Method)</i>	2021
	<i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Method)</i>	2021
	<i>Proses Sintesis Keramik Barium Strontium Titanat Dengan Metode Solid Solution (Barium Strontium Titanate Ceramic Synthesis Process Using Solid Solution Method)</i>	2021
	<i>Probe Alat Ukur Hemoglobin Non-Invasive (Non-Invasive Hemoglobin Measurement Probe)</i>	2021
	<i>Alat Ukur Kadar Glukosa Darah Non-Invasive Portabel (Portable Non-Invasive Blood Glucose Level Measuring Instrument)</i>	2020
	<i>Probe Tutup Penuh Untuk Alat Pengukuran Kadar Biomarker Darah Non Invasif (Full Cover Probe For Non-Invasive Blood Biomarker Level Measurement Tool)</i>	2020
	<i>Probe Biomarker Glukosa Darah Non-Invasif dengan Metode Reflektansi (Non-Invasive Blood Glucose Biomarker Probe with Reflectance Method)</i>	2020

	<i>V-Probe Untuk Alat Pengukuran Kadar Biomarker Darah Non Invasif (V-Probe For Non-Invasive Blood Biomarker Levels Measurement)</i>	2020
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (88 Published articles since 2019):</i></p> <p><i>Authors:</i> Ahmad, Musbahu Adam, Yu-yu Aung, Alfa Akustia Widati, Satya Candra Wibawa Sakti, Sri Sumarsih, Irzaman Irzaman, Brian Yuliarto, Jia-yaw Chang, and Mochamad Zakki Fahmi.</p> <p>Title: A Perspective on Using Organic Molecules Composing Carbon Dots for Cancer Treatment.</p> <p><i>Nanotheranostic, 2023, 7(2):187-201,</i> https://doi.org/10.7150%2Fntno.80076</p> <p><i>Authors:</i> Sabara, Zakir, Alfirah Mutmainnah, Ummu Kalsum, Irma Nur Afiah, Ismalia Husna, Antomi Saregar, and Rofiqul Umam.</p> <p>Title: Sugarcane Bagasse as the Source of Nanocrystalline Cellulose for Gelatin-Free Capsule Shell</p> <p><i>International Journal of Biomaterials, 2022,</i> https://doi.org/10.1155/2022/9889127</p> <p><i>Authors:</i> Irzaman, Irzaman, Irmansyah Irmansyah, Siti Aisyah, Nazopatul Patonah Har, and Aminullah Aminullah</p> <p>Title: Effect of Different Hydrothermal Temperatures on the Properties on Nano-Silica (SiO_2) of Rice Husk</p> <p><i>International Journal of Renewable Energy Development, 11(3): 640-646,</i> https://doi.org/10.14710/ijred.2022.43904</p>	
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>
Website	https://physics.ipb.ac.id/irz/	

Name	<i>Dr. Mersi Kurniati, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Chemistry)</i>	<i>IPB University</i>	<i>2014</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2000</i>
	<i>Undergraduate degree (Physics)</i>	<i>University of Indonesia</i>	<i>1994</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>IPB University</i>	<i>2017–Present</i>
Research and development projects over the last 5 years	<p>Title: <i>Optimasi Formulasi Pelepasan Pupuk Terkendali Pada Hidrogel Berbahan Karagenan-Aam Sebagai Agen Pembawa Pupuk (Optimization of Controlled Fertilizer Release Formulation on Hydrogels Made from Carrageenan-Aam As Fertilizer Carrier Agent)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 150.000.000 (EUR. 9160,41)</p> <p>Title: <i>Formulasi Hidrogel Super Absorben Polimer Berbasis Selulosa Tongkol Jagung dengan Metode Ikat Silang Fisika dan Kimia (Formulation of Super Absorbent Polymer Hydrogel Based on Corn Cob Cellulose with Physical and Chemical Crosslinking Method)</i></p> <p><i>Period :</i> 2020</p> <p><i>Amount of Financing:</i> IDR. 170.827.000 (EUR. 10432,31)</p> <p>Title: <i>Pengaruh Penambahan Anti-UV terhadap Sifat Optik dan Konduktivitas Termal pada Biomulsa (Effect of Anti-UV Addition on Optical Properties and Thermal Conductivity of Biomulch)</i></p> <p><i>Period :</i> 2018-2019</p>		

	<i>Amount of Financing: IDR. 277.640.000 (EUR. 16955,32) IDR. 200.000.000 (EUR. 12213,89)</i>
Industry collaborations over the last 5 years	
Patents and proprietary rights	<p><i>Title</i> <i>Year</i></p> <p><i>Lembaran Bioplastik Yang Dapat Dimakan Berbahan Dasar Protein Sorgum Manis, Karagenan Dan Sorbitol Sebagai Pengemas Pangan Dan Proses Pembuatannya (Edible Bioplastic Sheets Made from Sweet Sorghum Protein, Carrageenan and Sorbitol as Food Packaging And Manufacturing Process)</i> 2017</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx.</i> <i>(11 Published articles since 2019):</i></p> <p><i>Authors:</i> Yessie W Sari, Sumaya Yulia Putri, Noor Intan, Abdurrahman Bahtiar, Mersi Kurniati</p> <p><i>Title: The effect of sorbitol and sweet sorghum to carrageenan ratio on the physicochemical properties of sweet sorghum/carrageenan bioplastics.</i></p> <p><i>Springer Link, Biomass Conv. Bioref. 13, 2719–2728 (2023).</i> https://doi.org/10.1007/s13399-020-01254-3</p> <p><i>Authors:</i> Istie Rahayu, Esti Prihatini, Akhiruddin Maddu, Mersi Kurniati, Wayan Darmawan</p> <p><i>Title: Density and Dimensional Stability of a Wood-polymer Nano-Composite from Fast-growing Wood</i></p> <p><i>NORTH CAROLINA STATE UNIV DEPT WOOD & PAPER SCI, BioResources, 2022/2/1, Vol17(1), pages 750-762, https://doi.org/10.15376/biores.17.1.750-762</i></p>
	<i>Organization</i> <i>Role</i> <i>Period</i>

Activities in specialist bodies over the last 5 years	
Website	https://physics.ipb.ac.id/msk/

Name	<i>Dr. Setyanto Tri Wahyudi, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Chemistry)</i>	<i>Institute of Technology Bandung</i>	<i>2014</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2007</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2000</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2010–Present</i>

<p>Research and development projects over the last 5 years</p>	<p>Title: <i>Biomimetik Mineralisasi Tulang dan Gigi Menggunakan Nanokomposit Hidroksiapatit/Asam Amino Terkonjugasi Partikel Emas (Biomimetic Mineralization of Bones and Teeth Using Hydroxyapatite/Conjugated Amino Acid Nanocomposites of Gold Particles)</i></p> <p><i>Period:</i> 2021-2023</p> <p><i>Amount of Financing:</i> IDR. 756.857.000 (EUR. 46220,82)</p> <p>Title: <i>Screening Potensi Senyawa Tanaman Obat Sebagai Anti Malaria Dengan Target P. falciparum Signal Peptida Peptidase dan Hexose Transporter Melalui Metode Docking Dan Simulasi Dinamika Molekul (Screening Potential of Medicinal Plant Compounds As Anti-Malaria Targeting P. falciparum Signal Peptide Peptidase and Hexose Transporter Through Docking Method and Molecular Dynamics Simulation)</i></p> <p><i>Period:</i> 2019</p> <p><i>Amount of Financing:</i> IDR. 194.105.000 (EUR. 11853,88)</p> <p>Title: <i>Senyawa Pada Bawang Putih (Allium Sativum L.) Dan Bawang Hitam Sebagai Antigout Berdasarkan Analisis In Silico (Compounds In Garlic (Allium Sativum L.) And Black Garlic As Antigout Based On In Silico Analysis)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 27.500.000 (EUR. 1679,81)</p> <p>Title: <i>Pengembangan Tumbuhan Obat Indonesia Sebagai Antiinflamasi Dan Antivirus SARS Cov-2 (Development of Indonesian Medicinal Plants as Anti-Inflammation and Antivirus for SARS Cov-2)</i></p> <p><i>Period:</i> 2021</p> <p><i>Amount of Financing:</i> IDR. 65.000.000 (EUR.3970,46)</p> <p>Title: <i>Studi Enatioselektivitas Enzim Lipase Pada Bahan Racemix Untuk Bahan Baku Farmasi Melalui Pendekatan Komputasi (Study of</i></p>
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	<p><i>Enatioselectivity of Lipase Enzymes in Racemix Materials for Pharmaceutical Raw Materials Using a Computational Approach)</i></p> <p><i>Period: 2020</i></p> <p><i>Amount of Financing: IDR. 29.715.000 (EUR. 1815,11)</i></p> <p><i>Title: Senyawa Aktif Bahan Alam Sebagai Kandidat Antivirus COVID-19 Menggunakan Studi Penambatan Molekul (Active Compounds of Natural Materials as Antivirus Candidates for COVID-19 Using Molecular Docking Studies)</i></p> <p><i>Period: 2020</i></p> <p><i>Amount of Financing: IDR. 10.000.000 (EUR. 610.84)</i></p> <p><i>Title: Sintesis Blokomposit CHA/PVA/ALGINAT Sebagai Biomaterial Subtitusi Tulang (Synthesis of CHA/PVA/ALGINATE Biocomposites as Bone Substitution Biomaterials)</i></p> <p><i>Period: 2019</i></p> <p><i>Amount of Financing: IDR. 57.726.000 (EUR.3526.14)</i></p>						
Industry collaborations over the last 5 years							
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Formula Obat Herbal Antiinfalamasi Dari Ekstrak Wedelia (Sphagneticola trilobata) Dan Ekstrak Sembung Rambat (Mikania micrantha) (Formula of Anti-inflammatory Herbal Medicine From Wedelia Extract (Sphagneticola trilobata) and Sembung Vines (Mikania micrantha) Extract)</i></td> <td>2021</td> </tr> <tr> <td><i>Formula Obat Herbal Antiinfalamasi Berbasis Ekstrak Legetan Warak (Adenostemma Lavenia), Kersen (Muntingia Calabura) dan Kenikir (Cosmos Caudatus) (Anti-inflammatory Herbal Medicine Formula Based on Legetan Warak</i></td> <td>2020</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Formula Obat Herbal Antiinfalamasi Dari Ekstrak Wedelia (Sphagneticola trilobata) Dan Ekstrak Sembung Rambat (Mikania micrantha) (Formula of Anti-inflammatory Herbal Medicine From Wedelia Extract (Sphagneticola trilobata) and Sembung Vines (Mikania micrantha) Extract)</i>	2021	<i>Formula Obat Herbal Antiinfalamasi Berbasis Ekstrak Legetan Warak (Adenostemma Lavenia), Kersen (Muntingia Calabura) dan Kenikir (Cosmos Caudatus) (Anti-inflammatory Herbal Medicine Formula Based on Legetan Warak</i>	2020
<i>Title</i>	<i>Year</i>						
<i>Formula Obat Herbal Antiinfalamasi Dari Ekstrak Wedelia (Sphagneticola trilobata) Dan Ekstrak Sembung Rambat (Mikania micrantha) (Formula of Anti-inflammatory Herbal Medicine From Wedelia Extract (Sphagneticola trilobata) and Sembung Vines (Mikania micrantha) Extract)</i>	2021						
<i>Formula Obat Herbal Antiinfalamasi Berbasis Ekstrak Legetan Warak (Adenostemma Lavenia), Kersen (Muntingia Calabura) dan Kenikir (Cosmos Caudatus) (Anti-inflammatory Herbal Medicine Formula Based on Legetan Warak</i>	2020						

	<p>(<i>Adenostemma Lavenia</i>), <i>Kersen (Muntingia Calabura)</i> and <i>Kenikir (Cosmos Caudatus)</i> Extracts)</p> <p><i>Proses Pembuatan Hidroksiapatit dari Cangkang Telur Ayam 2013 Dengan Teknik Presispitasi Sekali Tuang (The Process of Making Hydroxyapatite from Chicken Eggshells Using One Pour Precipitation Technique)</i></p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (46 Published articles since 2019):</i></p> <p><i>Authors: Muhammad Arba, Setyanto Tri Wahyudi, Dylan J Brunt, Nicholas Paradis, Chun Wu</i></p> <p>Title: Mechanistic insight on the remdesivir binding to RNA-Dependent RNA polymerase (RdRp) of SARS-cov-2</p> <p><i>Elsevier, Computers in Biology and Medicine, February 2021, 129, 104156, https://doi.org/10.1016/j.combiomed.2020.104156.</i></p> <p><i>Authors: Amgad Muneer, Suliman Mohamed Fati, Nur Arifin Akbar, David Agustriawan, Setyanto Tri Wahyudi</i></p> <p>Title: iVaccine-Deep: Prediction of COVID-19 mRNA vaccine degradation using deep learning</p> <p><i>Elsevier, Computer and Information Sciences, October 2022, 24(9), 7419-7432. https://doi.org/10.1016/j.jksuci.2021.10.001.</i></p> <p><i>Authors: Aditya Wibawa Sakti, Setyanto Tri Wahyudi, Faozan Ahmad, Noviyan Darmawan, Hendradi Hardhienata, Husin Alatas</i></p> <p>Title: Effects of Salt Concentration on the Water and Ion Self-Diffusion Coefficients of a Model Aqueous Sodium-Ion Battery Electrolyte.</p> <p><i>American Chemical Society, The Journal of Physical Chemistry B, 10 March 2022, Vol 126(11), 2256-2264, https://doi.org/10.1021/acs.jpcb.1c09619</i></p>
	<p><i>Organization</i></p> <p><i>Role</i></p> <p><i>Period</i></p>

Activities in specialist bodies over the last 5 years	
Websites	https://physics.ipb.ac.id/stw/

Name	<i>Dr. Siti Nikmatin, M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate</i>	<i>IPB University</i>	<i>2012</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2004</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>1998</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>IPB University</i>	<i>2018–Present</i>
Research and development projects over the last 5 years	<p>Title: <i>Inovasi Benang dan Kain Dari Biomass Sawit Untuk Aplikasi Produk Industri Kreatif Fashion (Innovation of Yarn and Fabric from Palm Biomass for the Application of Fashion Creative Industry Products)</i></p> <p>Period: 2021-2022</p> <p>Amount of Financing: IDR. 5.700.000.000 (EUR. 347437,48)</p> <p>Title: <i>Rekayasa Material Peredam Getaran Jenis Viskoelastik dari Komposit Partikulat-Kompon Karet Alam (Viscoelastic Type Viscoelastic Vibration Damper Material Engineering from Particulate-Natural Rubber Compounds)</i></p> <p>Period: 2022</p> <p>Amount of Financing: IDR. 50.000.000 (EUR. 3047.70)</p> <p>Title: <i>Pengembangan untuk Hilirisasi Rompi Anti Peluru Berbahan Biomass Tandan Sawit (Development for Downstreaming of Bulletproof Vests Made from Palm Bunch Biomass)</i></p> <p>Period: 2022</p>		

	<p><i>Amount of Financing: IDR. 250.000.000 (EUR. 15238,49)</i></p> <p>Title: Optimasi Hingga Implementasi Pengolahan Limbah Padat Sawit Sebagai Material Filler Polimer Aplikasi Komponen Otomotif Dan Bahan Anti Peluru Untuk Diversifikasi Produk. (Optimization to Implementation of Palm Solid Waste Treatment as Polymer Filler Material Application of Automotive Components and Bulletproof Materials for Product Diversification.)</p> <p><i>Period: 2020</i></p> <p><i>Amount of Financing: IDR. 1.500.000.000 (EUR. 91430,91)</i></p>										
Industry collaborations over the last 5 years	<p><i>Balai besar standarisasi dan pelayanan jasa industri selulosa (2021 - 2022)</i></p> <p><i>PT. Interstisi Material Maju (2018 - 2019)"</i></p>										
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Komposisi Biokomposit Filler Serat Tandan Kosong Kelapa Sawit Sebagai Pengganti Komponen Otomotif Berpenguat Serat Sintesis (Biocomposite Composition of Oil Palm Empty Bunch Fiber Filler as a Substitute for Synthetic Fiber Reinforced Automotive Components)</i></td> <td>2020</td> </tr> <tr> <td><i>Alat Ekstraksi Minyak Serai Wangi Dengan Metode Ohmic Heating (Fragrant Lemongrass Oil Extraction Tool With Ohmic Heating Method)</i></td> <td>2017</td> </tr> <tr> <td><i>Helm Berpenguat Serat Pendek Atau Mikropartikel Tandan Kosong Kelapa Sawit Dan Metode Pembuatannya (Short Fiber Reinforced Helmets Or Palm Oil Empty Fruit Bunch Microparticles And Their Manufacturing Methods)</i></td> <td>2026</td> </tr> <tr> <td><i>Komposisi Lembaran Anti Peluru Berbahan Baku Serat Tandan Kosong Kelapa Sawit Non-Anyam (Composition of Bulletproof Sheets Made from Non-Woven Palm Empty Fruit Bunch Fiber)</i></td> <td>2019</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Komposisi Biokomposit Filler Serat Tandan Kosong Kelapa Sawit Sebagai Pengganti Komponen Otomotif Berpenguat Serat Sintesis (Biocomposite Composition of Oil Palm Empty Bunch Fiber Filler as a Substitute for Synthetic Fiber Reinforced Automotive Components)</i>	2020	<i>Alat Ekstraksi Minyak Serai Wangi Dengan Metode Ohmic Heating (Fragrant Lemongrass Oil Extraction Tool With Ohmic Heating Method)</i>	2017	<i>Helm Berpenguat Serat Pendek Atau Mikropartikel Tandan Kosong Kelapa Sawit Dan Metode Pembuatannya (Short Fiber Reinforced Helmets Or Palm Oil Empty Fruit Bunch Microparticles And Their Manufacturing Methods)</i>	2026	<i>Komposisi Lembaran Anti Peluru Berbahan Baku Serat Tandan Kosong Kelapa Sawit Non-Anyam (Composition of Bulletproof Sheets Made from Non-Woven Palm Empty Fruit Bunch Fiber)</i>	2019
<i>Title</i>	<i>Year</i>										
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<i>Komposisi Lembaran Anti Peluru Berbahan Baku Serat Tandan Kosong Kelapa Sawit Non-Anyam (Composition of Bulletproof Sheets Made from Non-Woven Palm Empty Fruit Bunch Fiber)</i>	2019										

Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (24 Published articles since 2019):</i></p> <p><i>Authors: Siti Nikmatin, Irmansyah Irmansyah, Endah Kinarya Palupi, Rofiqul Umam.</i></p> <p>Title: Oil palm empty fruit bunches as raw material of dissolving pulp for viscose rayon fiber in making textile products.</p> <p><i>Hindawi, International Journal of Biomaterials, 31 May 2023, 2023, https://doi.org/10.1155/2023/9475956.</i></p> <p><i>Authors: Marwanto Marwanto, Muhammad Iqbal Maulana, Fauzi Febrianto, Nyoman J Wistara, Siti Nikmatin, Nanang Masruchin, Lukmanul Hakim Zaini, Seung-Hwan Lee, Nam Hun Kim</i></p> <p>Title: Characteristics of nanocellulose crystals from balsa and kapok fibers at different ammonium persulfate concentrations</p> <p><i>Springer Berlin Heidelberg, Wood Science and Technology, September 2021, 55:1319-1335, https://doi.org/10.1007/s00226-021-01319-0</i></p> <p><i>Authors: Maulana, Muhammad Iqbal, Rio Ardiansyah Murda, Byantara Darsan Purusatama, Rita Kartika Sari, Deded Sarip Nawawi, Siti Nikmatin, Wahyu Hidayat, Seung Hwan Lee, Fauzi Febrianto, and Nam Hun Kim.</i></p> <p>Title: Effect of Alkali-Washing at Different Concentration on the Chemical Compositions of the Steam Treated Bamboo Strand.</p> <p><i>Journal of the Korean Wood Science and Technology, 2021, 49(1): 14-22, https://doi.org/10.5658/WOOD.2021.49.1.14</i></p>
Activities in specialist bodies over the last 5 years	<p><i>Organization Role Period</i></p>
Website	https://physics.ipb.ac.id/sni/

Name	<i>Dr. Sitti Yani, M.Si.</i>		
Post	<i>Theoretical and Computational Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Medical Physics)</i>	<i>Bandung Science and Technology Institute</i>	<i>2017</i>
	<i>Master (Biophysics)</i>	<i>IPB University</i>	<i>2009</i>
	<i>Undergraduate degree (Physics)</i>	<i>Halu Oleo University</i>	<i>2008</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2019 – present</i>
	<i>Lecturer</i>	<i>Akademi Kebidanan Pelita Ibu</i>	
			<i>2011-2019</i>
Research and development projects over the last 5 years	<p>Title: <i>Elektron dan Neutron Kontaminasi pada Varian Clinac iX 6 dan 10 MV Foton Beam (Electron and Neutron Contamination in the Clinac iX 6 and 10 MV Variants of the Photon Beam)</i></p> <p>Period: 2016</p> <p>Amount of Financing: IDR. 50.000.000 (EUR).</p>		
Industry collaborations over the last 5 years	<p>Project title</p> <p>Partners</p>		
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (21 published articles since 2019):</i></p>		

	<p><i>Authors: Sitti Yani, Yosia Adityo Noviantoro, Mohamad Fahdillah Rhani, Tony Sumaryada, Freddy Haryanto</i></p> <p>Title: Verification of 3D-CRT dose distribution in ArcCheck phantom using Monte Carlo code</p> <p><i>Additional information: Pergamon, Radiation Physics and Chemistry, 1 September 2023, Vol 210, Pages 111019</i></p> <p><i>Doi: https://doi.org/10.1016/j.radphyschem.2023.111019</i></p> <p><i>Authors: Sitti Yani, Ilmi Rizkia, Mohamad Fahdillah Rhani, Mohammad Haekal, Freddy Haryanto</i></p> <p>Title: EGSnrc application for IMRT planning</p> <p><i>Additional information: Reports of Practical Oncology and Radiotherapy, 2020, Vol 25(2), Pages 217-226</i></p> <p><i>Doi: 10.1016/j.rpor.2020.01.004</i></p> <p><i>Authors: Sitti Yani, Indra Budiansah, Mohamad Fahdillah Rhani, Freddy Haryanto</i></p> <p>Title: Study of efficiency in five-?eld and ?eld-by-?eld intensity modulated radiation therapy (IMRT) plan using DOSXYZnrc Monte Carlo code</p> <p><i>Additional Information: Reports of Practical Oncology and Radiotherapy, 2020, Vol 25(3), Page 428-435</i></p> <p><i>Doi: 10.1016/j.rpor.2020.03.022</i></p>	
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>
Website	<i>https://physics.ipb.ac.id/sya/</i>	

Name	<i>Dr. Yessie Widya Sari, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (Biobased Science)</i>	<i>Wageningen University, Netherlands</i>	<i>2015</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2006</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2002</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>IPB University</i>	<i>2014–Present</i>
	<i>Visiting Lecturer</i>	<i>University of Indonesia</i>	<i>2016–Present</i>
Research and development projects over the last 5 years	<p><i>Title: Development of 3D Porous Microspheres for Bone Tissue Engineering: Applications in Radiotherapy and Orthobiology</i></p> <p><i>Period:2023-Present</i></p> <p><i>Partners: Persahabatan Hospital, Indonesia National Research and Innovation Agency</i></p> <p><i>Amount of Financing: IDR. 460.000.000 (EUR. 28111,60)</i></p> <p><i>Title: Toothpaste Fortified with Nanohydroxyapatite and Active Compounds of Temu Hitam Rhizome: Efforts to Minimize Dental Caries Incidence in Indonesia</i></p> <p><i>Period:2019-2023</i></p> <p><i>Partners: PT. Alesha Berkah Utama</i></p> <p><i>Amount of Financing: IDR. 4.499.000.000 (EUR. 274943,68)</i></p>		
Industry collaborations over the last 5 years	<p><i>PT. Pertiwi Technology</i></p> <p><i>2018-present</i></p>		

	<i>PT.Alesha Berkah Utama</i> <i>2022-present</i>	
Patents and proprietary rights	<p><i>Title</i> <i>Year</i></p> <p><i>Hydroxyapatite Synthesis Method Based on Duck Eggshells uses microwave irradiation technology.</i> 2019</p> <p><i>Edible Bioplastic Sheets Made From Sweet Sorghum Protein, Carrageenan And Sorbitol As Food Packaging And Manufacturing Processes</i> 2020</p> <p><i>Production Method of Calcium Nanoparticles from Chicken Eggshells for Applications to Increase Biogas Production from Liquid Waste</i> 2021</p>	
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (41 Published articles since 2019):</i></p> <p><i>Authors:</i> Yessie W Sari, Annisa Tsalsabila, Angga Saputra, Nur Aisyah Nuzulia, Yuliati Herbani</p> <p><i>Title: Hydroxyapatite nucleation and growth modulated by amino acid-capped gold nanoparticles: An in vitro study</i></p> <p><i>Elsevier, Ceramics International, 1 June 2023, 49(11), 17166-17173.</i> https://doi.org/10.1016/j.ceramint.2023.02.08</p> <p><i>Authors:</i> Yessie Widya Sari, Eka Listiani, Sumaya Yulia Putri, Zaenal Abidin</p> <p><i>Title: Prospective of eggshell nano calcium in improving biogas production from palm oil mill effluent.</i></p> <p><i>Springer, Waste Biomass Valor 11, 14 August 2019, 4631–4638 (2020).</i> https://doi.org/10.1007/s12649-019-00786-8</p> <p><i>Authors:</i> Afrinal Firmando, Khaswar Syamsu, Yessie Widya Sari, Jaydee Cabral, Daniel Pletzer, Bhushan Mahadik, John Fisher, Farah Fahma</p> <p><i>Title: 3D printed cellulose-based product applications</i></p>	

	<i>Royal Society of Chemistry, Materials Chemistry Frontiers, 2022, 6(3), 254-279, https://doi.org/10.1039/D1QM00390A</i>		
Activities in specialist bodies over the last 5 years	<i>Organization</i> <i>Indonesian Young Academy of Sciences</i>	<i>Role</i> <i>Program Director</i>	<i>Period</i> <i>2022-2024</i>
Website	<i>https://physics.ipb.ac.id/yws/</i>		

Name	<i>Drs. Mahfuddin Zuhri, M.Si.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2004</i>
	<i>Undergraduate degree (Physics)</i>	<i>University of Indonesia</i>	<i>1994</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Assistant Professor</i>	<i>IPB University</i>	<i>2013 - present</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years			
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>Metode Pembuatan Film Tipis Berbasis Litium Niobat ($LiNbO_3$) (Methods for Manufacturing Thin Films Based on Lithium Niobate ($LiNbO_3$))</i>	<i>2021</i>	
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (4 Published articles since 2019):</i></p> <p><i>Authors: H Alatas, Y Suryana, S Pambudi, T Widayanti, R P Jenie, R Zaheri, A Aridarma, S K Rahayu, T S Riadhie, V Rahmawaty, N P Har, M Zuhri, T Sumaryada and Irzaman</i></p>		

	<p>Title: Fourier Transform Infra-Red spectrophotometry observation to find appropriate wavelength for non-invasive blood glucose level measurement optical device</p> <p>IOP Science, Journal of Physics: Conference Series, 2021, 1882(1):012009, https://doi.org/10.1088/1742-6596/1882/1/012009</p>		
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
Website	https://physics.ipb.ac.id/mhz/		

Name	<i>Nur Aisyah Nuzulia, S.Si., M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Master (Biophysics)</i>	<i>IPB University</i>	<i>2014</i>
	<i>Undergraduate degree (Physics)</i>	<i>IPB University</i>	<i>2010</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer</i>	<i>IPB University</i>	<i>2019 – present</i>
Research and development projects over the last 5 years	<p>Title: <i>Development of 3D Porous Microspheres for Bone Tissue Engineering: Applications in Radiotherapy and Orthobiology</i></p> <p>Period: 2023-Present</p> <p>Partners: Persahabatan Hospital, Indonesia National Research and Innovation Agency</p> <p>Amount of Financing: IDR. 460.000.000 (EUR. 28111,60)</p> <p>Title: <i>Toothpaste Fortified with Nanohydroxyapatite and Active Compounds of Temu Hitam Rhizome: Efforts to Minimize Dental Caries Incidence in Indonesia</i></p> <p>Period: 2019-2023</p> <p>Partners: PT. Alesha Berkah Utama</p> <p>Amount of Financing: IDR. 4.499.000.000 (EUR. 274943,68)</p>		
Industry collaborations over the last 5 years	<p><i>Project title</i></p> <p><i>Partners</i></p>		
	<p><i>Title</i></p> <p><i>Year</i></p>		

Patents and proprietary rights	<p><i>Metode Pembuatan Mikrosfer Kalsium Fosfat Sebagai Material 3d Pemercepat Regenerasi Tulang (Method for Making Calcium Phosphate Microspheres as Bone Regeneration Accelerator 3d Material)</i></p> <p><i>Formulasi Pasta Gigi Terfortifikasi Nanohidroksiapatit Dan Minyak Rimpang Temu Hitam (Toothpaste Formulation Fortified with Nanohydroxyapatite and Black Ginger Rhizome Oil)</i></p> <p><i>Proses Produksi Serbuk Nanohidroksiapatit Berbasis Cangkang Telur Ayam Menggunakan Teknik Irradiasi Gelombang Mikro Skala Pilot (Chicken Eggshell Based Nanohydroxyapatite Powder Production Process Using Pilot Scale Microwave Irradiation Technique)</i></p> <p><i>Komposisi Suplemen Untuk Kesehatan Tulang Berbasis Nanohidroksiapatit Dan Kolagen Serta Proses Pembuatannya (Nanohydroxyapatite and Collagen Based Supplement Composition for Bone Health and Their Manufacturing Process)</i></p> <p><i>Proses Pembuatan Dan Komposisi Serum Hidroksiapatit (Manufacturing Process and Composition of Hydroxyapatite Serum)</i></p> <p><i>Sintesis Kalsium Fosfat Scaffold 3d Dengan Porosifier Alginat Dan Kolagen Sebagai Material Biomedis Pemercepat Pemulihan Pada Kerusakan Tulang (Synthesis of Calcium Phosphate Scaffold 3d With Alginate And Collagen Porosifiers As Biomedical Materials Accelerating Recovery In Bone Damage)</i></p>	2021 2020 2020 2019 2017
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (9 Published articles since 2019):</i></p>	

	<p><i>Authors: SAGE Publications, Journal of Biomaterials Applications, 2022/3, Vol36(8)</i></p> <p><i>Title: Evolution of silicate bioglass particles as porous microspheres with a view towards ortho-biologics</i></p> <p><i>Journal of Biomaterials Applications, 20 January 2022, 36(8),</i> https://doi.org/10.1177_08853282211059294</p> <p><i>Authors: Yessie W Sari, Annisa Tsalsabila, Angga Saputra, Nur Aisyah Nuzulia, Yuliati Herbani</i></p> <p><i>Title: Hydroxyapatite nucleation and growth modulated by amino acid-capped gold nanoparticles: An in vitro study</i></p> <p><i>Elsevier, Ceramics International, 1 June 2023, 49(11), 17166-17173.</i> https://doi.org/10.1016/j.ceramint.2023.02.080</p> <p><i>Authors: YW Sari, A Saputra, A Bahtiar, NA Nuzulia</i></p> <p><i>Title: Effects of Microwave Processing Parameters on The Properties of Nanohydroxyapatite: Structural, spectroscopic, hardness, and toxicity studies</i></p> <p><i>Ceramics International, 1 November 2021, 47(21), 30061-30070.</i> https://doi.org/10.1016/j.ceramint.2021.07.182</p>
Activities in specialist bodies over the last 5 years	<i>Organization</i> <i>Role</i> <i>Period</i>
Website	https://physics.ipb.ac.id/nan/

Name	<i>Prof. Dr. Akhiruddin, M.Si.</i>		
Post	<i>Biophysics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institute</i>	<i>Year</i>
	<i>Doctorate (physics)</i>	<i>University of Indonesia</i>	<i>2007</i>
	<i>Master (Physics)</i>	<i>Bandung Institute of Technology</i>	<i>1997</i>
	<i>Undergraduate degree (Physics)</i>	<i>Hasanuddin University</i>	<i>1993</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor of Physics</i>	<i>IPB University</i>	<i>2022 – present</i>
Research and development projects over the last 5 years	<p>Title: <i>Optimasi Formulasi Pelepasan Pupuk Terkendali Pada Hidrogel Berbahan Karagenan-Aam Sebagai Agen Pembawa Pupuk (Optimization of Controlled Fertilizer Release Formulation on Hydrogels Made from Carrageenan-Aam As Fertilizer Carrier Agent)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 150.000.000 (EUR. 9165,75)</p> <p>Title: <i>Kajian Struktur Dan Pemanfaatan Karbon Aktif Sebagai Material Elektroda Untuk Pengembangan Sistem Microgrid (Study of Structure and Utilization of Activated Carbon as Electrode Material for Development of Microgrid Systems)</i></p> <p><i>Period:</i> 2022</p> <p><i>Amount of Financing:</i> IDR. 50.000.000 (EUR. 3055,25)</p> <p>Title: <i>Sustainable Bee Smart System Pengembangan Biodiversitas Lebah Sebagai Layanan Ekosistem Dan Kesehatan (Sustainable Bee</i></p>		

	<p><i>Smart System Development of Bee Biodiversity as an Ecosystem and Health Service)</i></p> <p><i>Period: 2022</i></p> <p><i>Amount of Financing: IDR. 59.000.000 (EUR. 3605,19)</i></p> <p><i>Title: Modifikasi Kayu Cepat Tumbuh Menggunakan Partikel Nano Dalam Rangka Meningkatkan Kualitas Kayu Rakyat (Modification of Fast-Growing Wood Using Nanoparticles in Order to Improve the Quality of People's Wood)</i></p> <p><i>Period: 2021</i></p> <p><i>Amount of Financing: IRD. 161.100.000 (EUR. 9844.01)</i></p>										
Industry collaborations over the last 5 years											
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Sistem Pendekksi Rayap Berbasis Sinyal Akustik dan Suhu (Termite Detection System Based on Acoustic and Temperature Signals)</i></td> <td>2020</td> </tr> <tr> <td><i>Pembuatan Elektroda Enzymatic Fuel Cell Pasta Karbon Termodifikasi Nanoserat Polianilin Untuk Meningkatkan Konduktivitas Arus Listrik (Manufacture of Enzymatic Fuel Cell Electrodes Modified Carbon Paste Polyaniline Nanofibers to Increase Electrical Conductivity)</i></td> <td>2019</td> </tr> <tr> <td><i>Proses Pembuatan Elektroda Enzimatis Untuk Biolistrik (The process of making enzymatic electrodes for bioelectricity)</i></td> <td>2017</td> </tr> <tr> <td><i>Proses Produksi Serbuk Hidroksipapatit Berbasis Cangkang Telur Bebek Menggunakan Teknologi Iradiasi Gelombang Mikro (Production Process of Duck Egg Shell Based Hydroxyapatite Powder Using Microwave Irradiation Technology)</i></td> <td>2017</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Sistem Pendekksi Rayap Berbasis Sinyal Akustik dan Suhu (Termite Detection System Based on Acoustic and Temperature Signals)</i>	2020	<i>Pembuatan Elektroda Enzymatic Fuel Cell Pasta Karbon Termodifikasi Nanoserat Polianilin Untuk Meningkatkan Konduktivitas Arus Listrik (Manufacture of Enzymatic Fuel Cell Electrodes Modified Carbon Paste Polyaniline Nanofibers to Increase Electrical Conductivity)</i>	2019	<i>Proses Pembuatan Elektroda Enzimatis Untuk Biolistrik (The process of making enzymatic electrodes for bioelectricity)</i>	2017	<i>Proses Produksi Serbuk Hidroksipapatit Berbasis Cangkang Telur Bebek Menggunakan Teknologi Iradiasi Gelombang Mikro (Production Process of Duck Egg Shell Based Hydroxyapatite Powder Using Microwave Irradiation Technology)</i>	2017
<i>Title</i>	<i>Year</i>										
<i>Sistem Pendekksi Rayap Berbasis Sinyal Akustik dan Suhu (Termite Detection System Based on Acoustic and Temperature Signals)</i>	2020										
<i>Pembuatan Elektroda Enzymatic Fuel Cell Pasta Karbon Termodifikasi Nanoserat Polianilin Untuk Meningkatkan Konduktivitas Arus Listrik (Manufacture of Enzymatic Fuel Cell Electrodes Modified Carbon Paste Polyaniline Nanofibers to Increase Electrical Conductivity)</i>	2019										
<i>Proses Pembuatan Elektroda Enzimatis Untuk Biolistrik (The process of making enzymatic electrodes for bioelectricity)</i>	2017										
<i>Proses Produksi Serbuk Hidroksipapatit Berbasis Cangkang Telur Bebek Menggunakan Teknologi Iradiasi Gelombang Mikro (Production Process of Duck Egg Shell Based Hydroxyapatite Powder Using Microwave Irradiation Technology)</i>	2017										

	<i>Panel Akustik Dari Kayu Akasia (Acoustic Panels From Acacia Wood)</i>	2013
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (40 Published articles since 2019):</i></p> <p><i>Authors: Permono Adi Putro, Akhiruddin Maddu, Hendradi Hardhienata, Isnaeni Isnaeni, Faozan Ahmad, Hermawan Kresno Dipojono</i></p> <p><i>Title: Revealing the incorporation of an NH₂ group into the edge of carbon dots for H₂O₂ sensing via the C–N···H hydrogen bond interaction</i></p> <p><i>Physical Chemistry Chemical Physics, 2023, vol 25 (3), 2606-2617, Doi: https://doi.org/10.1039/D2CP04097B</i></p> <p><i>Authors: Muhammad Achirul Nanda, Kudang Boro Seminar, Dodi Nandika, Akhiruddin Maddu</i></p> <p><i>Title: Development of termite detection system based on acoustic and temperature signals</i></p> <p><i>Elsevier, Measurement, December 2019, Vol 147, page 106902, Doi: https://doi.org/10.1016/j.measurement.2019.106902</i></p> <p><i>Authors: Akhiruddin Maddu, Reny Meliafatmah, Erus Rustami</i></p> <p><i>Title: Enhancing Photocatalytic Degradation of Methylene Blue Using ZnO/Carbon Dots Nanocomposite Derived From Coffee Grounds.</i></p> <p><i>Polish Journal of Environmental Studies, 2021/1/1, Vol30(1), Doi: 10.15244/pjoes/120156</i></p>	
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>
Website	<i>https://physics.ipb.ac.id/akh/</i>	

Name	<i>Prof. Dr. Husin Alatas, M.Si.</i>		
Post	<i>Theoretical Physics</i>		
Academic career	<i>Initial academic appointment post-doctoral (Physics)</i>	<i>Institution of Technology</i>	<i>Year</i>
		<i>Bandung Institute of Technology</i>	<i>2011</i>
	<i>Doctorate (Physics)</i>		<i>2005</i>
	<i>Master (Physics)</i>	<i>Bandung Institute of Technology</i>	<i>1998</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</i>	<i>IPB University</i>	<i>2018- Present</i>
Research and development projects over the last 5 years	<p>Title: <i>Kajian Dinamika dan Karakteristik Sistem Kompleks Berdasarkan Pemodelan Berbasis Agen dan Teori Kerapatan Fungsional. (Study of Dynamics and Characteristics of Complex Systems Based on Agent-Based Modeling and Density Functional Theory.)</i></p> <p>Period: <i>2021 - 2023</i></p> <p>Partners: <i>Indonesia National Research and innovation agency</i></p> <p>Amount of financing: <i>IDR. 341.986.000,00 (EUR. 20864,77)</i></p> <p>Title: <i>Simulasi, Fabrikasi, dan Karakterisasi Substrat surface Enhanced Raman Spectroscopy (SERS) Untuk Deteksi Bahan Peledak. (Simulation, Fabrication, and Characterization of Substrate Surface Enhanced Raman Spectroscopy (SERS) for Explosives Detection.)</i></p> <p>Period: <i>2022</i></p> <p>Amount of Financing: <i>IDR. 75.000.000 (EUR. 4575,79)</i></p> <p>Title: <i>Peningkatan Kinerja dan Kepekaan Sensor Cahaya berbasis Ferroelektrik BaxSr_{1-x}TiO₃ (x = 0; 0,125; 0,25; 0,375; 0,5; 0,625; 0,75; 0,875; 1) yang Terintegrasi dengan Smartphone Android serta</i></p>		

	<p>Penerapannya sebagai Pengendalian dan Pemantauan Lampu Jalan Pinta (Improved Performance and Sensitivity of $BaxSr1-xTiO3$ Ferroelectric-based Light Sensors ($x = 0; 0.125; 0.25; 0.375; 0.5; 0.625; 0.75; 0.875; 1$) Integrated with Android Smartphones and Their Application as Control and Monitoring of Lights)</p> <p><i>Period: 2021</i></p> <p><i>Partners: Indonesia's national research and innovation agency</i></p> <p><i>Amount of financing: IDR: 276.200.000,00 (EUR. 16851,12)</i></p> <p>Title: Kemandirian Bangsa Dalam teknologi Proses Pembuatan Alat Deteksi Dini Pengukuran Kadar HB Darah Non-Invasif (The Nation Independence in the Manufacturing Process of Non-Invasive HB Blood Levels Early Detection Devices)</p> <p><i>Period: 2020</i></p> <p><i>Amount of Financing: IDR. 1.701.700.000 (EUR.103821.71)</i></p>								
Industry collaborations over the last 5 years	<p><i>Project title</i></p> <p><i>Partners</i></p>								
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Metode Pengukuran Kadar Hemoglobin Darah Secara Non Invasif (Non-Invasive Method of Measuring Blood Hemoglobin Levels)</i></td> <td>2022</td> </tr> <tr> <td><i>Metode Elemen Hingga Ranah Frekuensi untuk Simulasi Pandu Gelombang Dalam Matlab/Octave (Frequency Domain Finite Element Method for Waveguide Simulation in Matlab/Octave)</i></td> <td>2019</td> </tr> <tr> <td><i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Method)</i></td> <td>2021</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Metode Pengukuran Kadar Hemoglobin Darah Secara Non Invasif (Non-Invasive Method of Measuring Blood Hemoglobin Levels)</i>	2022	<i>Metode Elemen Hingga Ranah Frekuensi untuk Simulasi Pandu Gelombang Dalam Matlab/Octave (Frequency Domain Finite Element Method for Waveguide Simulation in Matlab/Octave)</i>	2019	<i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Method)</i>	2021
<i>Title</i>	<i>Year</i>								
<i>Metode Pengukuran Kadar Hemoglobin Darah Secara Non Invasif (Non-Invasive Method of Measuring Blood Hemoglobin Levels)</i>	2022								
<i>Metode Elemen Hingga Ranah Frekuensi untuk Simulasi Pandu Gelombang Dalam Matlab/Octave (Frequency Domain Finite Element Method for Waveguide Simulation in Matlab/Octave)</i>	2019								
<i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Method)</i>	2021								

	<p><i>Alat Pelindung Pintar Dan Anti Air Untuk Sensor Ultrasonik HC-SR04 (Smart Protective And Waterproof Device For Ultrasonic Sensor HC-SR04)</i></p> <p><i>Probe Alat Ukur Hemoglobin Non-Invasive (Non-Invasive Hemoglobin Measurement Probe)</i></p> <p><i>Ekstrak Bidara Laut Sebagai Obat Antimalaria (Sea Bidara Extract As Antimalarial Medicine)</i></p> <p><i>Probe Tutup Penuh Untuk Alat Pengukuran Kadar Biomarker Darah Non Invasif (Full Cover Probe For Non-Invasive Blood Biomarker Level Measurement Tool)</i></p> <p><i>Probe Biomarker Glukosa Darah Non-Invasif dengan Metode Reflektansi (Non-Invasive Blood Glucose Biomarker Probe with Reflectance Method)</i></p> <p><i>V-Probe Untuk Alat Pengukuran Kadar Biomarker Darah Non Invasif (V-Probe Measurement For Non-Invasive Blood Biomarker Level Measurement)</i></p>	2021 2021 2020 2020 2020
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (47 articles have been published since 2019):</i></p> <p><i>Authors: Aditya Wibawa Sakti, Setyanto Tri Wahyudi, Faozan Ahmad, Noviyan Darmawan, Hendradi Hardhienata, Husin Alatas</i></p> <p><i>Title: Effects of Salt Concentration on the Water and Ion Self-Diffusion Coefficients of a Model Aqueous Sodium-Ion Battery Electrolyte</i></p> <p><i>Taylor&Francis, Ferroelectrics, 17 February 2019, Vol 540(1), Pages 227-237, https://doi.org/10.1080/00150193.2019.1611116.</i></p> <p><i>Authors: Yaya Suryana, Sabar Pambudi, Tika Widayanti, Renan Prasta Jenie, Bayu Prastowo, Nazopatul Patonah Har, Vania Rahmawaty,</i></p>	

	<p><i>Muhammad Dahrul, Ade Kurniawan, Ridwan Siskandar, Ichsan Hardyanto, Johan Iskandar, Naufal Muharram Nurdin, Arga Ardidarma, Sri Kristiana Rahayu, Husin Alatas</i></p> <p>Title: <i>Development of blood hemoglobin level early detection device based on a noninvasive optical platform</i></p> <p><i>Elsevier, Heliyon, 1 November 2022, Vol.8(11), pages e11260,</i> <i>https://doi.org/10.1016/j.heliyon.2022.e11260.</i></p> <p>Authors: <i>Rady Purbakawaca, Arief Sabdo Yuwono, I Dewa Made Subrata, Husin Alatas</i></p> <p>Title: <i>Ambient Air Monitoring System With Adaptive Performance Stability</i></p> <p><i>IEEE Access, 14 November 2022, Vol 10, Pages 120086-120105,</i> <i>https://doi.org/10.1109/ACCESS.2022.3222329</i></p>						
Activities in specialist bodies over the last 5 years	<table> <thead> <tr> <th>Organization</th><th>Role</th><th>Period</th></tr> </thead> <tbody> <tr> <td><i>Pusat Kajian Transdisiplin Dan Sains Keberlanjutan</i></td><td><i>Secretary</i></td><td><i>2022 - present</i></td></tr> </tbody> </table>	Organization	Role	Period	<i>Pusat Kajian Transdisiplin Dan Sains Keberlanjutan</i>	<i>Secretary</i>	<i>2022 - present</i>
Organization	Role	Period					
<i>Pusat Kajian Transdisiplin Dan Sains Keberlanjutan</i>	<i>Secretary</i>	<i>2022 - present</i>					
Website	<i>https://physics.ipb.ac.id/hal/</i>						

Name	<i>Prof. Dr. R. Tony Ibnu Sumaryada Wijaya Puspita, M.Si.</i>		
Post	<i>Theoretical and Computational Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctorate (Physics)</i>	<i>Florida State University</i>	<i>2007</i>
	<i>Master (Physics)</i>	<i>University of Indonesia</i>	<i>2000</i>
	<i>Undergraduate degree (Physics)</i>	<i>University of Indonesia</i>	<i>1996</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Professor of Physics</i>	<i>IPB University</i>	<i>2021- present</i>
	<i>Visiting Assistant of Professor of Physics</i>	<i>Frostburg State University</i>	<i>2009-2011</i>
	<i>Temporary Assistant Professor of Physics</i>	<i>Amstrong State University</i>	<i>2008 - 2009</i>
Research and development projects over the last 5 years	<p>Title: <i>Deteksi air dan kontaminan bahan pangan berskala nano menggunakan molecular dynamics dan optika nonlinier (Nanoscale detection of water and food contaminants using molecular dynamics and nonlinear optics)</i></p> <p><i>Period : 2023 - present</i></p> <p><i>Amount of financing: IDR. 128.600.000 (EUR. 7742,51)</i></p> <p>Title: <i>Sustainable Bee Smart System Pengembangan Biodiversitas Lebah Sebagai Layanan Ekosistem Dan Kesehatan (Sustainable Bee Smart System Development of Bee Biodiversity as an Ecosystem and Health Service)</i></p> <p><i>Period: 2021</i></p> <p><i>Amount of financing: IDR 59.000.000 (EUR 3599,62)</i></p>		

	<p>Title: <i>Optimisasi dan Karakterisasi Permukaan Film Tipis Sel Surya menggunakan Metode nano optik berbasis Simplified Bond Hyperpolarizability Model (SBHM) (Optimization and Characterization of Thin Film Solar Cell Surfaces using a nano-optical method based on the Simplified Bond Hyperpolarizability (SBHM) Model</i></p> <p>Period: 2019</p> <p>Amount of financing: IDR. 161.972.000 (EUR. 9882,01)</p> <p>Title: <i>Pengembangan Perangkat Lunak Design dan Analisis Keselamatan Bahan Bakar RDE (Reaktor Daya Eksperimental) (RDE (Experimental Power Reactor) Fuel Safety Design and Analysis Software Development)</i></p> <p>Period: 2019</p> <p>Amount of financing: IDR. 100.000.000 (EUR. 6101,06)</p> <p>Title: <i>Penambatan Molekuler Katekin, Kamperol, dan Kursetin terhadap Aktivitas Inhibisi Protein Tirosin Fosfatase 1B (Catechin, Camphorol, and Curcetin Molecular Binding of Protein Tyrosine Phosphatase 1B Inhibitory Activity)</i></p> <p>Period: 2019</p> <p>Amount of financing: IDR. 30.000.000 (EUR. 1830,32)</p>				
Industry collaborations over the last 5 years	<p>Project title:</p> <p>Partners:</p>				
Patents and proprietary rights	<table> <thead> <tr> <th>Title</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>Bahan Penyusun Inhaler Berbasis Grafena Oksida dan Senyawa Aktif Eucalyptol (1,8-Cineole) Secara In-Silico Sebagai Inhibitor Virus SARS-CoV-2 (Graphene Oxide-Based Inhaler Ingredients and Active Compounds Eucalyptol (1,8-Cineole) As SARS-CoV-2 Virus Inhibitors) In-Silico analysis</td> <td>2021</td> </tr> </tbody> </table>	Title	Year	Bahan Penyusun Inhaler Berbasis Grafena Oksida dan Senyawa Aktif Eucalyptol (1,8-Cineole) Secara In-Silico Sebagai Inhibitor Virus SARS-CoV-2 (Graphene Oxide-Based Inhaler Ingredients and Active Compounds Eucalyptol (1,8-Cineole) As SARS-CoV-2 Virus Inhibitors) In-Silico analysis	2021
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Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (46 articles have been published since 2019):</i></p> <p><i>Authors: T Sumaryada, M Sandy Gunawan, S Perdana, S Arjo, A Maddu</i></p> <p>Title: A molecular interaction analysis reveals the possible roles of graphene oxide in a glucose biosensor</p> <p><i>MDPI, Biosensors, 28 January 2019, Vol; 9(1), page: 18, https://doi.org/10.3390/bios9010018</i></p> <p><i>Authors: R Rizaldy, AR Alfarasyi, A Sulaksono, T Sumaryada</i></p> <p>Title: Neutron-star deformation due to anisotropic momentum distribution of neutron-star matter</p> <p><i>American Physical Society, Physical Review C, 26 November 2019, Vol 100(5), Pages 055804, https://doi.org/10.1103/PhysRevC.100.055804</i></p> <p><i>Authors: Kartono, A., Mafahir, I.A., Wahyudi, S.T., Setiawan, A.A., Sumaryada, T</i></p> <p>Title: A New Method for Estimating Diagnostic Parameters in the Dynamics Model of Modified Glucose-Insulin Homeostasis from the Oral Glucose Tolerance Test Using a Gravitational Search Algorithm</p> <p><i>Springer Berlin Heidelberg, Arabian Journal for Science and Engineering, 1 January 2022, Pages 1-13, https://doi.org/10.1007/s13369-021-05945-5</i></p>						
Activities in specialist bodies over the last 5 years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Organisation</th> <th style="text-align: left; padding: 5px;">Role</th> <th style="text-align: left; padding: 5px;">Period</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"></td><td style="padding: 5px;"></td><td style="padding: 5px;"></td></tr> </tbody> </table>	Organisation	Role	Period			
Organisation	Role	Period					
Website	<p>https://physics.ipb.ac.id/rti/</p>						

Name	<i>Rima Fitria Adiati, S.T., M.T.</i>		
Post	<i>Applied Physics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Master (Physics)</i>	<i>Sepuluh Nopember Institute of Technology</i>	<i>2019</i>
	<i>Undergraduate degree (Physics)</i>	<i>Sepuluh Nopember Institute of Technology</i>	<i>2017</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer</i>	<i>IPB-University</i>	<i>2022 - Present</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years			
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>Metode pengukuran Kadar Hemoglobin Darah Secara Non-Invasif (Non-Invasive Method of Measuring Blood Hemoglobin Levels)</i>	<i>2022</i>	
	<i>Metode Pembuatan Film Tipis Berbasis Litium Niobat ($LiNbO_3$) (Lithium Niobate ($LiNbO_3$) Based Thin Film Preparation Method)</i>	<i>2021</i>	

	<i>Metode Pembuatan Film Tipis Berbasis Barium Titanat ($BaTiO_3$) (Barium Titanate ($BaTiO_3$) Based Thin Film Preparation Method)</i>			
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (4 articles were published since 2019):</i></p> <p><i>Authors:</i> Rima Adiati, Agus M. Hatta</p> <p>Title: <i>A study of packaging schemes for SMS optical fiber temperature sensor</i></p> <p><i>National Institute of Optoelectronics, Optoelectronics and Advanced Materials Rapid Communications, 7 April 2021, Vol 15, pages 3-4</i></p> <p><i>Author(s):</i> Rima Fitria Adiati, Apriani Kusumawardhani, Heru Setijono</p> <p>Title: <i>Analysis of signal-to-noise ratio and bit error rate parameters of optical fiber communication backbone in the Lamongan-Kebalen segment</i></p> <p><i>SPIE, Third International Seminar on Photonic, Optics, and its application (ISPhOA 2018) 11 April 2019, Volume 11044, pages 149 - 154</i></p> <p><i>Doi:</i> https://doi.org/10.1117/12.2504200</p>			
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<i>Organisation</i>	<i>Role</i>	<i>Period</i>		
Website	https://physics.ipb.ac.id/rfa/			