



STAFF HANDBOOK

Name	Dadi Rusdiana			
Position	Material Physics (<i>Teaching area and designation</i>)			
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>	
	Associate Professor	Universitas Pendidikan Indonesia	2009	
	<i>Habilitation [German post-doctoral qualification] (Subject)</i>	<i>institution</i>	<i>Year</i>	
	<i>Doctorate (Subject)</i>	<i>Institution</i>	<i>Year</i>	
	Physics	Institute Teknologi Bandung	2000-2005	
	<i>Magister degree (subject)</i>	<i>Institution</i>	<i>Year</i>	
Physics	Institute Teknologi Bandung	1996-1998		
<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
Physics Education	Universitas Pendidikan Indonesia	1988-1993		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>	
	Vice Dean	Rector	2017- 2025	
	Chairman of Magister Physics Education Program	Rector	2015-2017	
	Head of Physics Education Department	Rector	2015- 2017	
	Secretary of Academic Senate	Rector	2013- 2014	
	Secretary of Physics Education Department	Rector	2011-2015	
	Academic Senate	Rector	2009-2013	
	Team of Curriculum Development	Rector	2009-2012	
	Team of Quality Control	Rector	2007-2011	
	Director Laboratory of physics material	Dean	2006-2011	
	Lecturer	Dean	1993-Now	
Research and development projects over the last 5 years	<i>Name of project or research focus</i>			
	<i>Period and any other information</i>			
	<i>Partners, if applicable</i>			
<i>Amount of financing</i>				
			Financing	
No	Year	Title of Research Project	Sources	Amount (Million Rp)
1	2018 - 2020	Analysis of the Characteristics Model of Electronic Devices Based on Multilayer Graphene Nanoribbon Materials for Low Power and High-Speed Electronic Device Applications	Ministry of Research and Technology of the Republic of Indonesia	74 (2020) 74 (2019) 143 (2018)
2	2016	Design of Sensitivity Measurement Instruments Volatile Organic Compound (VOC) Gas Sensors Based on GAN Semiconductors with SOL GEL SPIN-COATING Technique	UPI	30



Industry collaborations over the last 5 years	-																									
Patents and proprietary rights	-																									
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 78 Publication (Scopus Indexed)</i></p> <p><i>Author(s)</i></p> <p><i>Title</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> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4F81BD; color: white;"> <th style="width: 5%;">No</th> <th style="width: 60%;">Publication</th> <th style="width: 35%;">Author (s)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Simulation of Hemoglobin Detection using surface Plasmon Resonance based on Kretschmann Configuration, Journal of Engineering Science and Technology Vol. 15, No. 4 (2020) p.2239 - 2247</td> <td>Roni Sumantri, Lilik Hasanah, Moh. Arifin, Yuyu Rahmat Tayubi, Chandra Wulnadari, Dadi Rusdiana, cahya Julian, Roer Eka, Susuthita Menon, Siti Kudhi, Budi Mulyati</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Model of Tunneling Current on Bilayer Armchair Graphene Nanoribbon Tunnel Field Effect Transistor Using Transfer Matrix Method, Journal of Nano- and Electronic Physics, Vol. 12 No. 3, 2020, p. 03036-1 – 03036-5</td> <td>Endi Suhendi, M. Fulki Fadhillah, Intan Anjaningsih, Shofi D. Ulhaq, Amelia Fadhillah, and Dadi Rusdiana</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Comparison of tunneling currents in graphene nanoribbon tunnel field effect transistors calculated using Dirac-like equation and Schrödinger's equation, Journal of Semiconductors, Vol. 4, No 5, 2019, p.062002-1 – 062002-5</td> <td>Endi Suhendi, Lilik Hasanah, Dadi Rusdiana, Fatimah A. Noor, Neny Kurniasih, and Khairurrijal</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Sintering Temperatures Investigation on the Electrical Characteristics of Fe₂TiO₅/MnO₂ Ceramics-Based NTC Thermistor, Materials Science Forum Vol. 917, 2018, p. 74-77</td> <td>Wiendartun, Dadi Rusdiana, A Setiawan</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Effect of Heat Treatment Condition on the Characteristics of MnO₂ Added-Fe₂TiO₅ Ceramics for NTC Thermistors Using Local Iron Oxide, Materials Science Forum, Vol. 917, 2018, p.64-68</td> <td>J Kamal, D Rusdiana, A Setiawan, DG Syarief</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Analyzing Students' Level of Understanding on Kinetic Theory of Gases, 2017 J. Phys.: Conf. Ser. 812 012105</td> <td>T Nurhuda, Dadi Rusdiana, W Setiawan</td> </tr> </tbody> </table>					No	Publication	Author (s)	1	Simulation of Hemoglobin Detection using surface Plasmon Resonance based on Kretschmann Configuration, Journal of Engineering Science and Technology Vol. 15, No. 4 (2020) p.2239 - 2247	Roni Sumantri, Lilik Hasanah, Moh. Arifin, Yuyu Rahmat Tayubi, Chandra Wulnadari, Dadi Rusdiana , cahya Julian, Roer Eka, Susuthita Menon, Siti Kudhi, Budi Mulyati	2	Model of Tunneling Current on Bilayer Armchair Graphene Nanoribbon Tunnel Field Effect Transistor Using Transfer Matrix Method, Journal of Nano- and Electronic Physics, Vol. 12 No. 3, 2020, p. 03036-1 – 03036-5	Endi Suhendi, M. Fulki Fadhillah, Intan Anjaningsih, Shofi D. Ulhaq, Amelia Fadhillah, and Dadi Rusdiana	3	Comparison of tunneling currents in graphene nanoribbon tunnel field effect transistors calculated using Dirac-like equation and Schrödinger's equation, Journal of Semiconductors, Vol. 4, No 5, 2019, p.062002-1 – 062002-5	Endi Suhendi, Lilik Hasanah, Dadi Rusdiana , Fatimah A. Noor, Neny Kurniasih, and Khairurrijal	4	Sintering Temperatures Investigation on the Electrical Characteristics of Fe ₂ TiO ₅ /MnO ₂ Ceramics-Based NTC Thermistor, Materials Science Forum Vol. 917, 2018, p. 74-77	Wiendartun, Dadi Rusdiana , A Setiawan	5	Effect of Heat Treatment Condition on the Characteristics of MnO ₂ Added-Fe ₂ TiO ₅ Ceramics for NTC Thermistors Using Local Iron Oxide, Materials Science Forum, Vol. 917, 2018, p.64-68	J Kamal, D Rusdiana , A Setiawan, DG Syarief	6	Analyzing Students' Level of Understanding on Kinetic Theory of Gases, 2017 J. Phys.: Conf. Ser. 812 012105	T Nurhuda, Dadi Rusdiana , W Setiawan
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	7	Computer-Based Experiment of Free Fall Movement To Improve The Graphical Literacy, Jurnal Pendidikan IPA Indonesia, Vol. 6 (1), 2017, p. 41-48	B. Subali, Dadi Rusdiana H. Firman, I. Kaniawati Ellianawati	
	8	Effectiveness of Dry Cell Microscopic Simulation (DCMS) to Promote Conceptual Understanding about Battery, 2017 J. Phys.: Conf. Ser. 877 012009	F.C. Wibowo A.Suhandi, D.Rusdiana A.Samsudin , DR Darman	
Activities in specialist bodies over the last 5 years	Organization		Role	Periods
	Physical Society of Indonesia		Member	2015 - Now
* <i>Membership without a specific role need not be mentioned</i>				