



STAFF HANDBOOK

Name	Andhy Setiawan			
Position	Material Physics			
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>	
	Associate Professor	Universitas Pendidikan Indonesia	2013	
	<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	Institut Teknologi Bandung	2006-2011	
	<i>Master (Subject)</i>	<i>Institution</i>	<i>Year</i>	
Physics	Universitas Gadjah Mada	2001-2003		
<i>Undergraduate degree (subject)</i>	<i>Institution</i>	<i>Year</i>		
Physics Education	Universitas Pendidikan Indonesia	1991-1997		
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>	
	Lecturer	Dean	1998-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
			Sources	Amount (Million Rp)
1	2020 - 2022	Analysis of the Effect of Local Yarosite Mineral Composition Materials on the Characteristics of LaFeO ₃ Thick Film Ceramics for Gas Sensors	Ministry of Research and Technology of the Republic of Indonesia	166 (2020)
2	2017 - 2019	Optimization of the Synthesis and Characterization of LaFeO ₃ Thick Film Ceramics from Local Materials for Ethanol Gas Sensors	Ministry of Research and Technology of the Republic of Indonesia	212 (2019) 212 (2018) 132 (2017)
3	2017	Development of ferrite-based ceramic electrical characteristics from local materials for NTC thermistor through optimization of sintered conditions.	Universitas Pendidikan Indonesia	40
Industry collaborations over the last 5 years	<i>Project title</i>			
	<i>Partners</i>			
Patents and proprietary	<i>Title</i>		<i>Year</i>	
	_____		_____	



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Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 48 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: #4a86e8; color: white;"> <th style="width: 10%;">No</th> <th style="width: 60%;">Publication</th> <th style="width: 30%;">Author (s)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Etching process optimization of non-vacuum fabricated Cu₂ZnSnS₄ solar cell, Journal of Materials Science: Materials in Electronics, Vol. 31 No. 4, 2020, p. 3674-3680</td> <td>Gema Refantero, Eka Cahya Prima, Andhy Setiawan, Camelia Panatarani, Deni Cahyadi, Brian Yuliarto</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Optical Gamification (OG); Serial Versus Random Model to Improve Pre-Service Physics Teachers' Concept Mastery, International Journal of Emerging Technologies in Learning (IJET), Vol. 15 No. 9, 2020, p. 39-59</td> <td>Saprudin, Liliari, Andhy Setiawan, Ary Prihatmanto</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Structure Analysis of Nanocomposite ZnO: Fe₂O₃ based Mineral Yarosite as Fe₂O₃ Source and its Application Probability, Materials Today: Proceedings, Elsevier, Vol. 13, 2019, p. 36-40</td> <td>Hasniah Aliah, D Gustaman Syarif, Ryan Nur Iman, Asti Sawitri, Wahyudin Darmalaksana, Andhy Setiawan, Adam Malik, Pikriansyah Gumarang</td> </tr> <tr> <td style="text-align: center;">4</td> <td>The Effect of SrO Doping on LaFeO₃ using Yarosite Extraction based Ethanol Gas Sensors Performance Fabricated by Coprecipitation Method, International Journal of Nanoelectronics and Materials, Vol. 12, No. 2, 2019, p. 185-192</td> <td>Endi Suhendi, Muhamad Taufik Ulhakim, Andhy Setiawan and Dani Gustaman Syarif</td> </tr> <tr> <td style="text-align: center;">5</td> <td>The optimization of ZnFe₂O₄/Mn₂O₃-based nanocomposite ceramic fabrication utilizing local minerals as an ethanol gas detector, Materials Research Express, IOP Publishing, Vol. 6 No. 9, 2019, p. 095908</td> <td>Hasniah Aliah, Ryan Nur Iman, Asti Sawitri, Dani Gustaman Syarif, Andhy Setiawan, Wahyudin Darmalaksana, Adam Malik</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Synthesis and Characterization of Al₂O₃-Doped LaFeO₃ Thick Film Ceramics for Ethanol Gas Sensing Application, Oriental Journal of Chemistry, Vol. 35 No. 1, 2019, p. 283-288</td> <td>Endi Suhendi, Neng Astri Lidiawati, Andhy Setiawan and Dani Gustaman Syarif</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Sintering Temperatures Investigation on the Electrical Characteristics of Fe₂TiO₅/MnO₂ Ceramics-Based NTC Thermistor, Materials Science Forum, Trans Tech Publications Ltd., Vol. 917, 2018, p. 74-77</td> <td>Wiendartun, Dadi Rusdiana, Andhy Setiawan</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Dye Sensitized Solar Cells (DSSC) Performance Reviewed from the Composition of Titanium Dioxide (TiO₂)/Zinc Oxide (ZnO), IOP Conference Series:</td> <td>H Aliah, B Bernando, F Puspitasari, A Setiawan, P Pitriana, BW Nuryadin, MA</td> </tr> </tbody> </table>		No	Publication	Author (s)	1	Etching process optimization of non-vacuum fabricated Cu ₂ ZnSnS ₄ solar cell, Journal of Materials Science: Materials in Electronics, Vol. 31 No. 4, 2020, p. 3674-3680	Gema Refantero, Eka Cahya Prima, Andhy Setiawan , Camelia Panatarani, Deni Cahyadi, Brian Yuliarto	2	Optical Gamification (OG); 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	Materials Science and Engineering, IOP Publishing, Vol. 288 No. 1, 2018, p. 012070	Ramdhani	
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>			