

Dr. Zainul Arifin Imam Supardi

	Materials Science, Physical Mathematics, and Quantum Physics					
Position	Lecturer in Physics Study Program					
	Associate Professor in Materials Science	e, Physical Mathematics, and Qu	Vogr			
A and and a new and a	Degree or Non Degree	WID Nagari Surahaya	1092 1099			
Academic career	Bachelor at Physics Education	Indonesia	1983-1988			
	Master at Physics	Institut Teknologi Bandung – Indonesia	1992-1995			
	Doctor at Science and Materials Engineering	Institut National Polytechnique de Grenoble – France	1998-2001			
	Summer School on Superconducting Materials	SCENET, Community European, Karlsruhe Institute of Technology - Germany	2001			
	BATAN Accelerator School	BATAN Yogyakarta	2002			
Employment	Position	Employer	Period			
	Lecturer on Physics Education Study Program, Bachelor	Universitas Negeri Surabaya - Indonesia	1990 - Now			
	Lecturer on Physics Study	Universitas Negeri	1998 - Now			
	Program, Bachelor Degree	Surabaya - Indonesia	1990 1000			
	Lecturer on Science Education	Universitas Negeri	2002 - Now			
	Study Program, Master Degree	Surabaya - Indonesia				
	Lecturer on Science Education	Universitas Negeri	2009 - Now			
	Study Program, Doctor Degree	Surabaya - Indonesia				
	Secretary on Science Education	Universitas Negeri	2011 - 2016			
	Study Program (Master and Doctor)	Surabaya - Indonesia				
	Head of Physics Department	Universitas Negeri Surabaya - Indonesia	2016 - 2019			
	Academic Senat	Faculty of Mathematics	2019 - 2022			
Dosoarah and		and Science, OINESA				
development projects over the last 5 years	2019: Doping Alumunium Hidroksida (Al(OH)3) Pada Komposit Polyvinileden Fluoride – Cellulose Acetate (PVDF-CA) Sebagai Separator untuk Baterai Lithium Ion, Penelitian Kebijakan FMIPA UNESA, IDR:					
	10,000,000 (nead)					
	2017-2018: Fabrikasi Core-shell Fe3O4@SiO2 Nano partikel dan Aplikasinya sebagai Filter Air), Penelitian Strategis Nasional Institusi, IDR: 120,000,000 (member)					
	2017: Keefektifan Model Pembelajaran "Orientasi IPA" dan Model PBL untuk Meningkatkan Keterampilan Berpikir Kritis Mahasiswa Calon Guru Pendidikan IPA, Penelitian Kebijakan Pasca Sarjana UNESA, IDR: 60,000,000 (member)					

	2016: Karakterisasi Material Li5FeO4 sebagai Bahan Katoda Baterai, Penelitian Kebijakan FMIPA UNESA, IDR: 10,000,000 (head)					
	 2016: Pengembangan Nano Partikel Porous (SiO2) sebagai Material Sparator dan Elektrolit Baterai Lithium Ion Polymer, Penelitian Kebijakan Pasca Sarjana UNESA, IDR: 70,000,000 (head) 2015: Fabrikasi nanokomposit PANi-SiO2/Acrylic Paint sebagai Prototipe Material Pelapis Anti-Korosi pada Pipa Power Plant Energi Geotermal, Penelitian Produk Terapan, IDR: 80,000,000 (member) 					
	Title					
proprietary rights	Francois Weiss, Philip Odier, and Zainul Arifin Imam Supardi, In- situ fabrication of YBCO thick - films using spray pyrolysis method at high temperature (Fr-0202217 expand CE, USA, and Japan)	2002 - Now				
Important	Title	Year				
Publication	Synthesis under in situ pressure control of (Hg,Re)-1223 thick films by aerosol technique, page: 341-348, Physica C: Super-conductivity and its Applications	2000				
	Thick Films of (Hg, Re)-1223 by aerosol deposition at high temperature, vol. 13 page: 617-621, Superconductor Science and Technology	2000				
	Synthesis by aerosol process of superconductor films and buffer layer materials, vol. 11, (March 2001), IEEE Transactions on Applied Superconductivity	2001				
	Synthesis of $Hg_{0.75}Re_{0.25}Ba_2Ca_2 Cu_3O_{8+\hat{1}}$ bi-axially textured thin film by the aerosol process, vol. 388, (1 June 2001), Thin Solid Films	2001				
	Preparation of Tl-1223 and Tl-2223 superconducting films by spray pyrolysis, vol. 11, (December 2001), Journal De Physique IV: JP	2001				
	Critical parameters for the preparation of Tl-1223 superconducting films by spray pyrolysis, vol. 11, (December 2001)					
	Tl- and (Hg,Re)-1223 oxide films by spray pyrolysis for practical applications, Physica C: Superconductivity and its Applications, page: 372-376 (August 2002)					
	Epitaxial thick film of YBCO by high temperature spray pyrolysis for coated conductors, Physica C Superconductivity and its Application, vol. 386, page: 296-299 (April 2003)	2003				
	Spray pyrolysis for high Tc superconductors films, Superconductor Science and Technology, vol. 17 (November 2004)	2004				
	Using science oriented self regulated learning to improve student s writing skill in science and concept, Man in India, vol. 96, (2016)	2016				
	Composites of Fe ₃ O ₄ /SiO ₂ from Natural Material Synthesized by Co-Precipation, IOP Conference Series: Materials Science and Engineering, vol. 202, (31 May 2017)	2017				
	Feasibility of Creative Exploration, Creative Elaboration, Creative Modeling, Practice Scientific Creativity, Discussion, Reflection (C3PDR) Teaching Model to Improve Students' Scientific Creativity of Junior High School, Journal of Baltic Science Education, vol. 16(6), (December 2017)	2017				
	Composites of Fe3O4/SiO2 from Natural Material Synthesized by Co-Precipitation Method, IOP Conference Series: Materials Science and Engineering, vol. 202 (1), 012057	2017				
	Synthesis of Nano SiO2 Powders from Lusi with Continuous Method, Advanced Science Letters 23 (12), 12002-12006	2017				

	The Comparison of OR-IPA Teaching Model And Problem Based Learning Model Effectiveness To Improve Critical Thinking Skills of Pre-Service Physics Teachers, Journal of Baltic Science Education, vol. 17(2), (April 2018)				
	Electrical Performances of Lithium-Ion Coin Cell Based on Reduced Graphene Oxide (RGO), Atlantis Press, Atlantis Highlights in Engineering (AHE), vol.1 page: 785-787 (2018) Morphology and Porosity of Fe3O4@SiO2 Core-Shell Adsorption for Heavy Metal Pb(II), Atlantis Press, Atlantis Highlights in Engineering (AHE), vol.1 page: 788-792 (2018)				
	The development of meta industrial electronics field on Engineering and Tech 185	cognition-based learning n l in a vocational high schoo nology Education, vol. 16	nedia for the ol, World Trans. (2), page: 179-	2018	
	Structure Analysis of Fe3O4@ SiO2 Core Shells Prepared from Amorphous and Crystalline SiO2 Particles, IOP Conference Series: Materials Science and Engineering, vol. 367 (1), 012010Phase Transition of SiO2 Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect, Journal of Physics: Conference Series 1093 (1), 012025				
	The Development of Inquiry Learning Materials to Complete Content Life System Organization in Junior High School Students, Journal of Physics: Conference Series 947 (1), 012034				
	Synthesis and Characterization of γ-Al2O3/SiO2 Composite Materials Journal of Physics: Conference Series 1093 (1), 012015			2018	
	THE ROLE OF KNOWLEDGE MASTERY AND SCIENCE PROCESS SKILLS TO INCREASE THE SCIENTIFIC CREATIVITY, Unnes Science Education Journal 7 (2) Application of Inquiry Learning to Exercise Critical Thinking Skills in Light Material of Elementary School Students, MISEIC 2018 The effect of multiple external representations (MERs) worksheets toward complex system reasoning achievement, Journal of Physics: Conference Series 983 (1), 012202				
	Synthesis of PANi-SiO2 Nanocomposite with In-Situ Polymeriza- tion Method: Nanoparticle Silica (NPS) Amorphous and Crystalline Phase, Journal of Physics: Conference Series 997 (1), 012052 The effectiveness of OR-IPA teaching model to improve students' critical thinking skills on senior high school physics subject, Journal of Physics: Conference Series, vol. 1157 (3), 032011				
	Phase and Magnetic Properties of Fe3O4/SiO2 Natural Materials- Based Using Polyethylene Glycol Media, IOP Conference Series: Materials Science and Engineering 515 (1), 012017				
	Complexity of student's argument in reasoning plant tissue system through multiple representations, Journal of Physics: Conference Series 1157 (2), 022068				
Professional Organization	Organization	Position	Period		
<u>Granization</u>	Physical Society of	Member	2018 – Now		
	Perkumpulan Pendidik	Member	2018 – Now		
	ITA IIIdollesia (PPII)				