STAFF HANDBOOK



Name	Dr. Zaiunul Arifin Imam Supardi, M.Si		
	 Lecturer in Physics Study Program (Bachelor Degree) Materials Science, Physical Mathematics, and Quantum Physics Lecturer in Science Education Study Program (Master Degree) Quantum 		
Position	Physics 3. Lecturer in Science Education Study Program (Ph. D Degree)) Philosophy of Science		
	Associate Professor in:		-
	Materials Science, Physical Mathemat		
	Degree	University	Year
	Bachelor on at Physics	IKIP Negeri Surabaya-	1983-
	Education	Indonesia	1988
	Master on Physics	Institut Teknologi Bandung – Indonesia	1992- 1995
Academic Career	Doctor on Science andMaterials 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
	Position	Employer	Period
	Lecturer on Physics Education Study Program, Bachelor Degree	Universitas Negeri Surabaya - Indonesia	1990 - Now
	Lecturer on Physics Study	Universitas Negeri	1998 -
	Program, Bachelor Degree	Surabaya - Indonesia	Now
	Lecturer on Science Education	Universitas Negeri	2002 -
	Study Program, Master Degree	Surabaya - Indonesia	Now
Employment	Lecturer on Science Education	Universitas Negeri	2009 -
	Study Program, Doctor Degree	Surabaya - Indonesia	Now
	Secretary on Science Education Study Program (Master and Doctor)	Universitas Negeri Surabaya - Indonesia	2011 - 2016
	Head of Physics Department	Universitas Negeri Surabaya - Indonesia	2016 - 2019
	Academic Senat	Faculty of Mathematics and Science, UNESA	2019 - 2022

	Title	Funder	Year	Amount of Financing (million)
	Portfolio Development of Doctoral Program of Science Education Courses in the Context of International Accreditation	Penelitian Kebijakan FMIPA	2023	20
	Characteristics of Polyaniline/Metal Oxide Composites as Liquefied Petroleum Gas (LPG) Sensor Materials	Penelitian Kompetitif dasar FMIPA	2022	20
Research and Development Project Over the Last 5 Years	Development of the Unesa Chancellor's Regulation on the Code of Ethics for Lecturers, Academic Ethics and Planning for Unesa PTN- BH (Member)	Penelitian PNBP(Penelitian Kebijakan Strategis Univ (PTNBH))	2021	50
	Mojokerto City Chemistry Teacher Competency Improvement in Compiling a Minimum Competency Assessment (AKM) (member)	Penelitian kebijakan Pascasarjan a	2021	25
	The Effect of the Double Boiler Process on Betel Leaf (Piper Betle L.) Processing to Maintain the Content of Tannins as a Natural Antiseptic in the Manufacture of Hand Sanitizers to Prevent the Spread of Covid-19	Penelitian Kebijakan FMIPA UNESA	2020	12
	Doping Alumunium Hidroksida (Al(OH)3) Pada Komposit Polyvinileden Fluoride – Cellulose Acetate (PVDF-CA) Sebagai Separator untuk Baterai Lithium Ion (Head)	Penelitian Kebijakan FMIPA UNESA	2019	10
	Fabrication of Core-shell Fe304@Si02 Nanoparticles and Their Application as Water Filters) (Member)	Penelitian Strategis Nasional Institusi	2017- 2018	70
	Creative Responsibility Based Learning (CRBL) Model and C3PDR Learning Model to Train Scientific Creativity of Physics Education Undergraduate Students	Penelitian PNBP Pascasarjana	2018	50
	The Effectiveness of the "Science Orientation" Learning Model and the PBL Model to Improve the Critical Thinking Skills of Science Education Teacher Candidate Students. (Members)	Penelitian Kebijakan Pasca Sarjana UNESA	2017	60
Community Service Over The Last 5 Years	Title	Funder	Year	Amount of Financing (million)
	Workshop on Making Science Learning Media and IT-Based Evaluation	PKM Kebijakan FMIPA	2017	7,5
	Provision of Household-Scale Consumption Water for	BOPTN FMIPA UNESA	2018	7,5

	Communities in Tarokan Village, Kab. Kediri, East Java			
	Parabolic Antenna installation assistance, Satellite Signal Position Tracking, TV Program Tracking, and Digital Information Sorting Education for the Community in Mojokerto Regency	PNBP FMIPA Unesa	2019	7,5
	Online Workshop for Creating Scientific Content on COVID-19 Info at the Physics Department, Surabaya State University	PKM Kebijakan FMIPA	2020	7
	Scientific Article Writing Training to Improve Scientific Publications for MGMP Teachers in Lamongan Regency	PKM Kebijakan FMIPA	2021	10
	Scientific Article Writing Training to Improve Scientific Publication of Surabaya City MGMP Teachers	PKM kebijakan FMIPA	2022	10
	Ardulno Based Line Tracer Robot Training for Students of SMAN 15 Surabaya	PKM kebijakan FMIPA	2023	10
Industry Collaborations Over the Last 5 Years	Title	Partner		Year
	Title	Patent ID		Year
	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
	Bahan Literasi Sains Kimia	000289171		2021
	Panduan Penyusunan Asesmen Kompetensi Minimum (AKM) Mata Pelajaran Kimia	000274868		2021
	Model Creative-Scientific Decision Making Skills (CSDMS) Dalam Melatihkan Keterampilan Berpikir Kreatif Dan Keterampilan Pengambilan Keputusan Mahasiswa	000383588		2022
Patents and Property Right	Panduan Penyusunan Soal Higher Order Thinking Skills (HOTS) Mata Pelajaran Kimia	000484518 / EC00202351583		2023
	Lembar Kerja Mahasiswa Materi Listrik Arus Searah Dan Kemagnetan Berbasis Model Creative-Scientific Decision-Making Skills (CSDMS)	J000484514/ EC00202351579,		2023
	Bahan Ajar Mahasiswa Materi Listrik Arus Searah Dan Kemagnetan Berbasis Model Creative-Scientific Decision-Making Skills (CSDMS)	000484515/ EC00202351580		2023
	Buku Ajar Mahasiswa Pokok Bahasan Usaha Dan Energi Dengan Model Clarity Learning	000484516/ EC0020	02351581	2023

	Title	Year
	The Comparison of OR-IPA Teaching Model And Problem Based Learning Model Effectiveness To Improve Critical Thinking Skillsof Pre-Service Physics Teachers, Journal of Baltic Science Education, vol. 17(2), (April 2018)	2018
	Electrical Performances of Lithium-Ion Coin Cell Based onReduced Graphene Oxide (RGO), Atlantis Press, Atlantis Highlights in Engineering (AHE), vol.1 page: 785-787 (2018)	2018
	Morphology and Porosity of Fe304@Si02 Core-Shell Adsorptionfor Heavy Metal Pb(II), Atlantis Press, Atlantis Highlights in Engineering (AHE), vol.1 page: 788-792 (2018)	2018
	The development of metacognition-based learning media for the industrial electronics field in a vocational high school, World Trans on Engineering and Technology Education, vol. 16 (2), page: 179-185	2018
	Structure Analysis of Fe304@ Si02 Core Shells Prepared from Amorphous and Crystalline Si02 Particles, IOP Conference Series: Materials Science and Engineering, vol. 367 (1), 012010	2018
	Phase Transition of SiO2 Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect, Journal of Physics: Conference Series 1093 (1), 012025	2018
	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	2018
	Synthesis and Characterization of γ-Al2O3/SiO2 Composite Materials, Journal of Physics: Conference Series 1093 (1), 012015	2018
Important Publications Over the Last 5 Years	The Role Of Knowledge Mastery And Science Process Skills To Increase The Scientific Creativity, Unnes Science Education Journal 7 (2)	2018
	Application of Inquiry Learning to Exercise Critical Thinking Skillsin Light Material of Elementary School Students, MISEIC 2018	2018
	The effect of multiple external representations (MERs) worksheets toward complex system reasoning achievement, Journal of Physics:Conference Series 983 (1), 012202	2018
	Synthesis of PANi-SiO2 Nanocomposite with In-Situ Polymeriza- tion Method: Nanoparticle Silica (NPS) Amorphous and CrystallinePhase, Journal of Physics: Conference Series 997 (1), 012052	2018
	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	2019
	Phase and Magnetic Properties of Fe304/Si02 Natural Materials- Based Using Polyethylene Glycol Media, IOP Conference Series: Materials Science and Engineering 515 (1), 012017	2019
	Complexity of student's argument in reasoning plant tissue system through multiple representations, Journal of Physics: Conference Series 1157 (2), 022068	2019
	ORNE Learning Model to Improve Problem-Solving Skills of Physics Bachelor Candidates: An Alternative Learning in the Covid-19 PandemicJurnal Penelitian Fisika dan Aplikasinya (JPFA)Vol 10, No.1, pp-71-80 http://dx.doi.org/10.26740/jpfa.v10n1.p71-80	2020
	The Improvement of Critical Thinking Skills of Primary School Students Through Guided Inquiry Learning Models with Integrated Peer Instructions Studies in Learning and Teaching, Vol 1 (2), pp.104-111 https://scie-journal.com/index.php/SiLeT/article/download/39/22	2020

Applying The Cognitive Style-Based Learning Strategy in Elementary Schools to Improve Students' Science Process Skills, Journal of Turkish Science Education Vol.7 (2), pp.289-301	2020
Effectiveness of i-SMART learning model using chemistry problems solving in senior high school to improve metacognitive skills and students' conceptual understanding, Pedagogika, 2020, t. 138, nr. 2, p. 37-60	2020
Guided Inquiry Model with the REACT Strategy Learning Materials to Improve the Students' Learning Achievement. IJORER: International Journal of Recent Educational Research, Vol. 1 (2), pp.156-168	2020
Magnetic driven electrical conductivity and band gap energy of SrTi1-XCrxO3, AIP Conference Proceedings, Vol. 2251 (1), hal. 040003	2020
Karakteristik Transfer Muatan pada DSSC dengan Fotoanoda Triple Layer Ag-TiO2, JPSE (Journal of Physical Science and Engineering) Vol. 4, (1), pp.23-29	2020
The Effectiveness Of Learning Devices Through The Stem Approaches To Train Students'critical Thinking Skills Jurnal Education And Development Vol 8 (2), pp.281-284	2020
Characterization of Fe3O4/rGO Composites from Natural Sources: Application for Dyes Color Degradation in Aqueous Solution, International Journal of Engineering Vol.33 (1), pp.18-27	2020
Virtual Classroom Critical Thinking as an Alternative Teaching Model to Improve Students' Critical Thinking Skills in Pandemic Coronavirus, Disease EraEuropean Journal of Educational Research Volume 10, Issue 4, 2003 - 2015.	2021
Implementation of Virtual Classroom Critical Thinking in High School Physics Classes. MISEIC 2021 Proceedings of the International Joint Conference on Science and Engineering 2021 (Atlantis Press)	2021
Design clarity learning model to improve advanced clarification ability on physics courses. Cypriot Journal of Educational Sciences, Volume 17, Issue 5, (2022) 1549-1566	2022
Effectiveness of Clarity Learning Model to Improve Students' Advanced Clarification Critical Thinking Ability in Physics Courses. Pegem Journal of Education and Instruction, Vol. 12, No. 3, 2022 (pp. 49-58)	2022
The Effectiveness of the Creative-Scientific Decision Making Skliis (CSDMS) Model to Practice Creative Thinking Skills and Decision Making Skills. International Journal of Recent Educational Research: Jurnal Internasional Terindeks Copernicus; Publish: 30 September 2022; Vol 3, No. 5, 2022 pp: 631-639	2022
Creative-Scientific Decision Making Skills (CSDMS) Learning Model in Training Creative Thinking Skills and Student Decision Making Skills. Journal of Curriculum and Teaching; Jurnal Internasional Terindeks Scopus Q4; Accepted: 14 October 2022, Publish: Vol 11 No. 6, November 2022	2022
Improving the competence of chemistry teachers in developing the minimum competency assessment (MCA). AIP Conference Proceedings 2619, 080008 (2023).	2023
Creative-scientific decision-making skills learning model for training creative thinking skills and student decision making skills. Nurture, Vol.17 No.1, pp. 10-15. https://doi.org/10.55951/nurture.v17i1.141	2023
Application of pani/metal oxide composite as an active material of liquified petroleum gas sensors. Digest Journal of Nanomaterials and Biostructuresthis link is disabled, 2023, 18(2), pp. 485–493 https://doi.org/10.15251/DJNB.2023.182.485	2023

A ativiti a a in	Organization	Role	Period
Activities in Specialist Bodies	Physical Society ofIndonesia (PSI)	Member	2018 – Now
Over the Last 5 Years	Perkumpulan PendidikIPA Indonesia (PPII)	Member	2018 – Now