



**Dr. Munasir, S.Si., M.Si.**

Position	<b>Lecturer of Material Physics, in Department of physics</b>		
	Associate Professor in Materials Science of Physics		
	<b>Degree</b>	<b>University</b>	<b>Year</b>
Academic Career	Doctoral Program at Physics Study Program	Institut Teknologi Sepuluh Nopember (ITS), Surabaya-Indonesia	2015
	Electron Microscopy Workshop: the design and application of electron microscopy for physical and biological materials	Institut Teknologi Sepuluh Nopember Surabaya (ITS), Indonesia	2010
	Master Program at Physics Study Program	Institut Teknologi Bandung (ITB), Bandung-Indonesia	2001
	Pre-Magister Qualification in Physics from Physics Department (non-degree training)	Bandung Institute of Technology (ITB), Bandung, Indonesia	1998
	Bachelor program at Physics Study Program	Institut Teknologi Sepuluh Nopember (ITS), Surabaya-Indonesia	1994
	Guest Researcher	Bundesanstalt für Materialforschung und-prufung (BAM) Corrosion Laboratory within the German-Indonesia Collaboration on Geothermal Research, Berlin, Germany	2011
	Workshop of X-ray Diffraction	Institut Teknologi Sepuluh Nopember Surabaya (ITS), Indonesia	2012
	Nanotechnology Workshop (9th batch MNI): Synthesis and application of titania nanoparticles (TiO <sub>2</sub> )	Indonesia Society for Nanotechnology (MNI), Indonesia	2012
	Workshop of Characterization Tools for Nano Technology	Indonesia Society for Nanotechnology (MNI), Indonesia	2011
	Workshop of Materials Characterizations (XRD, SEM-EDX and XRF)	Institut Teknologi Sepuluh Nopember Surabaya (ITS), Indonesia	2011
	Workshop on Nanotechnology (6th batch MNI): submicron-nanoparticle synthesis by the high energy milling (HEM) method	Indonesia Society for Nanotechnology (MNI), Indonesia	2010

	Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)	IKIP Negeri Surabaya, Indonesia	1995-1998
		Universitas Negeri Surabaya (Unesa), Surabaya, east Java, Indonesia	1998-now
<b>Employment</b>	<b>Position</b>	<b>Employer</b>	<b>Period</b>
	Assistant Professor on Physics Education of Study Program	IKIP Surabaya, Indonesia	1995-1998
	Assistant Professor on Physics Study Program	Universitas Negeri Surabaya, Indonesia	1999-2008
	Associate Professor on Physics Study Program	Universitas Negeri Surabaya, Indonesia	2009-now
	Head of Material Physics Laboratory	Physics Department, Universitas Negeri Surabaya, Surabaya-Indonesia	2015-now
	Secretary of the Physics Department	Physics Department, Universitas Negeri Surabaya, Surabaya-Indonesia	2016-2019
	Head of Physics Department	Physics Department, Universitas Negeri Surabaya, Surabaya-Indonesia	2019-Now
	Head of Physics Study Program	Physics Department, Universitas Negeri Surabaya, Surabaya-Indonesia	2019-Now
	Assessor for establishment of new study program	Ministry of Research and Technology and higher education (now, Ministry of Education and Culture), Indonesia	2017-Now
	Editor & Reviewer of Journal	JPFA, terindeks: DOAJ, Portal Garuda, Google Scholar, dan Scientific Journal WorldWide e-Librart; p-ISSN:2087-9946; e-ISSN:2477-1775	2017-Now
		Characterization of Materials, Elsevier Publisher	2019
<b>Research and development projects over the last 5 years</b>	<b>Research focus</b>	<b>Grant (IDR)</b>	<b>Year</b>
	Graphene Nanocomposite (rGO/Fe <sub>3</sub> O <sub>4</sub> ) as a filter material candidate in seawater desalination process (first year, research chair)	139.182.850	2019
	Fabrication of Core-shell Fe <sub>3</sub> O <sub>4</sub> @ SiO <sub>2</sub> Nanoparticles and its Application as a Water Filter (third year, research chair)	222.826.000	2019
	Fabrication of Core-shell Fe <sub>3</sub> O <sub>4</sub> @ SiO <sub>2</sub> Nanoparticles and its Application as a Water Filter (second year, research chair)	120.000.000	2018
	The effectiveness of science orientation learning models and PBL models to train critical thinking skills of prospective physics teacher students (research member)	60.000.000	2017
	The structure and porosity of silica nanoparticles (SiO <sub>2</sub> -NPs) for varying calcination temperatures (research member)	10.000.000	2017
	Core-shell Fe <sub>3</sub> O <sub>4</sub> @ SiO <sub>2</sub> Nanoparticles Fabrication and its Application as a Water Filter (first year, research chair)	55.321.000	2017
	Characterization of Li <sub>5</sub> FeO <sub>4</sub> Materials as Battery Cathode Materials (Members of researchers)	10.000.000	2016

	Study of $\gamma$ -alumina and $\gamma$ -Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> nano-order porosity and its application prospects (research chair)	10.000.000	2016
	PANi-SiO <sub>2</sub> /Acrylic Paint composite fabrication as an anti-corrosion material in a geothermal medium power plant (2nd year, research chair)	70.000.000	2016
	Potential Recipients of Intellectual Property Rights (UBER HKI) 2014, SK No: 2386 / E5.4 / HP.2014 (research member)	10.000.000	2016
	PANi-SiO <sub>2</sub> /Acrylic Paint composite fabrication as an anti-corrosion material in a geothermal medium power plant (1st year, research chair)	63.000.000	2015
	Al/SiO <sub>2</sub> composites are reinforced with nano silica particles from natural quartz sand as anti-corrosion material on geothermal medium (research chair)	40.000.000	2014
	Descriptive study of the implementation of the 2013 curriculum as a basis for developing prototypes of learning and learning problem solving models for high school (SMA) students in Nganjuk Regency, East Java Province. (research member)	200.000.000	2014
	Revitalizing TAP S1 PGSD courses to support the preparation of professional competencies of prospective graduates (research member)	15.000.000	2014
	Development of subject learning instrument (IPA) for III class of elementary schools using an thematic integrative approach by applying discovery learning models (research member)	20.000.000	2014
<b>Patents and proprietary rights</b>	<b>Patents Title</b>		<b>Year</b>
	Nanocomposite PANi-SiO <sub>2</sub> /Acrylic Paint Material ascorrosion protector on Geothermal Media, Patent Number: <b>S00201909331</b>		2019
	Core-Shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Nanomaterial: Fabrication Methode and Its Application, Patent Number: <b>S00201909333</b>		2019
	Synthesis method of SiO <sub>2</sub> Nanoparticles from Natural Sand (quartz sand) and Utilization as Reinforcement of Al/SiO <sub>2</sub> Composite Anti-Corrosion Material, Patent Number: <b>IDP000432900</b>		2016
	Classical Mechanics I, Student textbook, Copyright-Number: <b>EC00201951587</b>		2019
	The Electrical materials, Student textbook, Copyright-Number: <b>EC00201951588</b>		2019
	Material Fabrication Method: Nanoparticles, Student textbook, Copyright-Number: <b>EC00201951589</b>		2019
	Thermodynamic: Problems and solving, Student textbook, Copyright-Number: <b>EC00201951590</b>		2019
	Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> Nanomaterials and Application, Monograph, Copyright-Number: <b>EC00201976375</b>		2019
<b>Important publications over the last 5 years</b>	<b>International Journals</b>		
	<b>Munasir</b> , P.R Rahmawati, D.H Kusumawati, ZA Supardi, L. Rohmawati. <i>Characterization of Fe<sub>3</sub>O<sub>4</sub>@rGO Composite from Natural Materials: Study for Dyes Color (Methylene-Blue) Degradation in Aqueous Solution</i> , IJE Transaction-A (Basics), Belgrade University, WoS, Scopus Index (Q2), Vol 33(1), pp.12-22		2019
	<b>Munasir</b> , Triwikantoro, M.Zainuri, Ralp Baessler, Darminto. <i>Electrochemical and Microstructural Study on Corrosion of Al/SiO<sub>2</sub> Composites in 1 M NaCl Medium</i> , IJE Transaction-A (Basics), Belgrade University, WoS, Scopus Index (Q2), Vol 32(7), pp.982-990.		2019

<b>Munasir</b> , Triwikantoro, M.Zainuri, Ralp Baessler, Darminto. <i>Mechanical strength and corrosion rate of Al/SiO<sub>2</sub> composites: prepared by active mixing medium and nanoparticle silica as reinforcement</i> , Journal of Physical Science (JPS). USM-Malaysia, Scopus Index, Q3, Vol 30(1), 2019, pp. 81–97	2019
<b>Munasir</b> , A. J. Hairin Pribadi, Z. A. Imam Supardi, Moch. Zainuri, Triwikantoro, and Darminto, (2017). <i>Synthesis of Nano SiO<sub>2</sub> Powders from Lusi with Continuous Method</i> , Advanced Science Letters, Scopus (Q4), 23(12), pp.12002-12006.	2018
Budi Jatmiko, Binar Kurnia Prahani, <b>Munasir</b> , Z. A. Imam Supardi, Iwan Wicaksono, Nia Erlina, Paken Pandiangan, Rosyid Althaf, Zainuddin. (2018). <i>The comparison of or IPA teaching model and problem based learning model effectiveness to improve critical thinking skills of pre-service physics teachers</i> , Journal of Baltic Science Education, Scopus Q3, WoS, Vol 17, No 2, 2018, pp:300-319	2017
<b>Munasir</b> , Triwikantoro, Mochamad Zainuri, Darminto: <i>Synthesis of SiO<sub>2</sub> Nanopowders Containing Quartz And Crystobalite Phases from Silica Sands</i> , Material Science of Poland (MSP) (De Gruyter), Q3, WoS, IF, Vol.33(1),2015, pp:47-54,	2015
<b>International Pocceding</b>	
<b>Munasir</b> , N. Setyaningsih, S. Yanasin, Z.A.I. Supardi, A. Taufiq and Sunaryono (2019). Phase and Magnetic Properties of Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> Natural Materials-Based Using Polyethylene Glycol Media, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>515(2019)</b> 012017.	2019
Ahmad Taufiq, Maqfiratun Ainun Jannah, Arif Hidayat, Nurul Hidayat, Nandang Mufti, <b>Munasir</b> and Hendra Susanto (2019). Structural and Magnetic Behaviours of Magnetite/Polyvinyl Alcohol Composite Nanofibers, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>515(2019)</b> 012081.	2019
<b>Munasir</b> and R P Kusumawati (2019). Synthesis and Characterization of Fe <sub>3</sub> O <sub>4</sub> @rGO Composite with Wet-Mixing (ex-situ) Process, <i>J. Phys.: Conf. Ser.</i> <b>1171</b> 012048/ 2019	2019
<b>Munasir</b> and A Terraningtyas (2019). Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> composite with in-situ method: TEOS as SiO <sub>2</sub> NPs precursor, <i>J. Phys.: Conf. Ser.</i> <b>1171</b> 012050/ 2019.	2019
N P Putri, D H Kusumawati, L Agustina and <b>Munasir</b> (2019). Effect of calcination temperature on characteristics of reduced Graphene Oxide (rGO) made from old coconut shell, <i>J. Phys.: Conf. Ser.</i> <b>1171</b> 012042/ 2019.	2019
A Taufiq, M. Muzammil, A. Fuad, N. Hidayat, S. Sunaryono, N. Mufti, A. Hidayat, M. Diantoro and M. <b>Munasir</b> (2019). Preparation, Structural and Dielectric Behaviors of CoxMn1-xMn2O4 (0 ≤ x ≤ 1) Nanoparticles, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>367(2018)</b> 012050.	2019
A S D Sari, B K Prahani, <b>Munasir</b> and B Jatmiko (2018). The improvement of students physics problem solving skills through the implementation of PO2E2W learning model assisted PhET media, <i>J. Phys.: Conf. Ser.</i> <b>1108</b> 012024. 2018.	2018
Fiona Setyo Resmawati, Prabowo Prabowo, <b>Munasir</b> . The Discovery Learning Model with A Scientific Approach to Increase Science Learning Achievement of Students, Atlantis Press: Advances in Intelligent Systems Research (AISR), volume 157, indexed WoS; Juli 2018.	2018
Arinta Rezty Wijayaningputri, Wahono Widodo, <b>Munasir</b> (2018). Effectiveness of Guided-Inquiry Model to Train Science Process Skills	2018

	of Senior High School Students, Atlantis Press: Advances in Intelligent Systems Research (AISR), volume 157, indexed WoS; Juli 2018.		
	<b>Munasir</b> , ZA. Imam Supardi (2018). Morphology and Porosity of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Core-Shell: Adsorption for Heavy Metal Pb(II), Atlantis Press: Series: <a href="#">Atlantis Highlights in Engineering</a> , Volume 1, indexed WoS; Desember 2018.	2018	
	Sunaryono, M. F. Hidayat, C. Insjaf, A. Taufiq, N. Mufti, and <b>Munasir</b> (2018). Investigation of Magnetic Properties and Mechanical Responses on Hydrogel-TMAH-Magnetite, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>367(2018)</b> 012025 .	2018	
	Sunaryono, M. N. Kholifah, Yudyanto, A. Taufiq, N . Mufti, R. Wulandari, <b>Munasir</b> , and M. Diantoro. Deformation of Ferrogel Based on <i>Carboxyl Methyl Cellulose (CMC)/Polyvinyl Alcohol (PVA)</i> Hydrogel, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>367 (2018)</b> 012016.	2018	
	<b>Munasir</b> , (2018). Structure Analysis of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Core Shells Prepared from Amorphous and Crystalline SiO <sub>2</sub> Particles, IOP: Conf. Series.: <i>Mater. Sci. Eng.</i> <b>367 (2018)</b> 012010.	2018	
	N P Putri, D H Kusumawati, N Widiyanti and <b>Munasir (2018)</b> . Synthesis of polyaniline/cellulose composite as humidity sensor, <i>J. Phys.: Conf. Ser.</i> <b>997</b> 012009. 2018.	2018	
	<b>Munasir</b> , N R D Luvita, D H Kusumawati1, N P Putri, Triwikantoro, Z A Imam Supardi (2018). Synthesis of PANi-SiO <sub>2</sub> Nanocomposite with In-Situ Polymerization Method: Nanoparticle Silica (NPS) Amorphous and Crystalline Phase, <i>J. Phys.: Conf. Ser.</i> <b>997</b> 012052. 2018	2018	
	A Taufiq, S Bahtiar, Sunaryono, N Hidayat, A Hidayat, N Mufti, M Diantoro, A Fuad, <b>Munasir</b> , R Rahmawati. Aging Time Effect on Porous Characteristics of Natural Mud-based Silica Prepared by Hydrothermal-Coprecipitation Route, IOP: <i>Conf. Ser.: Mater. Sci. Eng.</i> <b>(202)</b> 012024 .2017.	2017	
	A Ubaid, N Hidayat and <b>Munasir</b> . Aging Time Effect on Porous Characteristics of Natural Mud-based Silica Prepared by Hydrothermal-Coprecipitation Route, IOP: <i>Conf. Ser.: Mater. Sci. Eng.</i> <b>(202)</b> 012022 .2017.	2017	
	<b>Munasir</b> , Wahy Setyaningsih. Composites of Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> from Natural Material Synthesized by Co-Precipitation Method, IOP.: <i>J. Phys. Conf. Ser.</i> 202 012057. 2017	2017	
	<b>Munasir</b> , Triwikantoro, M. Zainuri, Darminto: Synthesis of Silica Nanopowder from Slopeng Natural Sands via Alkalifussion Route, <i>AIP Conf. Proc.</i> 1555, 28-31 (2013).	2013	
	<b>Book/e-Book</b>		
	<b>Munasir</b> : Nanopartikel Core-Shell Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> dan Aplikasinya, Jaudar Press, Surabaya-Indonesia	2019	
	<b>Munasir</b> : Termodinamika, Jaudar Press, Surabaya-Indonesia	2019	
	<b>Munasir</b> : Metode Fabrikasi bahan, Jaudar Press, Surabaya-Indonesia	2018	
	<b>Munasir</b> : Bahan Elektrik, Jaudar Press	2017	
	<b>Munasir, et., al.</b> : Advances in Nanotechnology, Vol 20: Nanopowders produced from Natural Sources Using the simple coprecipitation metode, Nova Science Publisher, Inc.	2017	
	<b>Munasir</b> : Mekanika Klasik (seri 1), Unesa Press	2016	
	Sri Mulyani & <b>Munasir</b> : Fisika Dasar I, Unesa Press	2015	
<b>Profesional Organization</b>	<b>Organization</b>	<b>Position</b>	<b>Period</b>
	Physics Society of Indonesia	Member Ketua Komisariat PSI-Universitas Negeri Surabaya	2019 - Now

	Indonesia Society for Nanotechnology (MNI)	Member	2010 – Now
	Perkumpulan Pendidik IPA Indonesia (PPII)	Member	2012 – Now
<b>Researcher Identity</b>	ResearchGate	<a href="https://www.researchgate.net/profile/M-Munasir">https://www.researchgate.net/profile/M-Munasir</a>	
	Scopus-ID	57031904800	
	Sinta-ID	5988909	
	Orchid-ID	orcid.org/0000-0002-9526-3959	
	Web of Science Researher-ID	F-5901-2015	