Prof. Dr. Munasir, S.Si., M.Si.

Position	***Lecturer of Material Physics, in Department of physics***		
	Associate Professor in Materials Science of Physics		
	Degree	***University***	***Year***
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 fur 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 (TiO2)	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
Employment	***Position***	***Employer***	***Period***
	Lecturer 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	2009-2020
	Professor on Physics Study Program	Universitas Negeri Surabaya, Indonesia	2020-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 Scolar, dan Scientific Journal WorldWide e-Librart; p-ISSN:2087-9946; e-ISSN:2477-1775	2017-Now
		Characterization of Materials, Elsivier Publisher	2019

Research and development projects over the last 5 years	Research focus	Grant (IDR)	Year
	Graphene Nanocomposite (rGO/Fe_3O_4) as a filter material candidate in seawater desalination process (second year, research chair)	122.182.850	2020
	Graphene Nanocomposite (rGO/Fe_3O_4) as a filter material candidate in seawater desalination process (first year, research chair)	139.182.850	2019
	Fabrication of Core-shell Fe_3O_4@ SiO_2 Nanoparticles and its Application as a Water Filter (third year, research chair)	222.826.000	2019
	Fabrication of Core-shell Fe_3O_4@ SiO_2 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_2-NPs) for varying calcination temperatures (research member)	10.000.000	2017

	Core-shell Fe_3O_4@ SiO_2 Nanoparticles Fabrication and its Application as a Water Filter (first year, research chair)	55.321.000	2017
	Characterization of Li_5FeO_4 Materials as Battery Cathode Materials (Members of researchers)	10.000.000	2016
	Study of γ-alumina and γ-Al_2O_3/SiO_2 nano-order porosity and its application prospects (research chair)	10.000.000	2016
	PANi-SiO_2/Acrylic Paint composite fabrication as an anti-corrosion material in a geothermal medium power plant (2^{nd} 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_2/Acrylic Paint composite fabrication as an anti-corrosion material in a geothermal medium power plant (1^{st} year, research chair)	63.000.000	2015
	Al/SiO_2 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
Patents and proprietary rights	**Patents Title**		**Year**
	Nanocomposite PANi-SiO_2/Acrylic Paint Material ascorrosion protector on Geothermal Media, Patent Number: **S00201909331**		2019
	Core-Shell Fe_3O_4@SiO_2 Nanomaterial: Fabrication Methode and Its Application, Patent Number: **S00201909333**		2019
	Synthesis method of SiO_2 Nanoparticles from Natural Sand (quartz sand) and Utilization as Reinforcement of Al/SiO2 Composite Anti-Corrosion Material, Patent Number: **IDP000432900**		2016
	Classical Mechanics I, Student textbook, Copyright-Number: **EC00201951587**		2019
	The Electrical materials, Student textbook, Copyright-Number: **EC00201951588**		2019
	Material Fabrication Method: Nanoparticles, Student textbook, Copyright-Number: **EC00201951589**		2019
	Thermodynamic: Problems and solving, Student textbook, Copyright-Number: **EC00201951590**		2019
	Fe_3O_4/SiO_2 Nanomaterials and Application, Monograph, Copyright-Number: **EC00201976375**		2019
Important publications	**International Journals**		
	Ahmad Taufiq, Sunaryono Sunaryono, Markus Diantoro, Arif Hidayat, Nurul Hidayat, **Munasir**, (2020). Fabrication of New Fe_3O_4/PVA/$(C6H7O6Na)_n$ Nanohybrid Ferrogels for Antibacterial		2020

over the last 5 years	Applications" which you submitted to the Materials Research, has been reviewed, Materials Research, *23(5), **2020**: e20200010, pp: 1-12. DOI:*	
	Ahmad Taufiq, Rosy Eko Saputro, Defi Yuliantika, Sunaryono Sunaryono, Markus Diantoro, Arif Hidayat, Nurul Hidayat, **Munasir Munasir**. (2020). Excellent Antimicrobial Performance of Co-Doped Magnetite Double-Layered Ferrofluids Fabricated from Natural Sand, *Journal of King Saud University-Science, 32(6), **2020**, pp:1-16 https://doi.org/10.1016/j.jksus.2020.08.009*	2020
	Munasir, A. Teraningtyas, N. Setyaningsih, Z.A.I. Supardi. (2020). Preparation, Characterization, and Application of Fe_3O_4/SiO_2 Core-Shell from Natural Sand for Adsorption of Methylene Blue in Water, *International Journal of Engineering (IJE) Belgrade University,*	2020
	Munasir, Lydia Rohmawati, Ahmad Taufiq, Darminto. (2020). Amorphous SiO_2 Nanoparticles from Natural Sands: Structure and Porosity, CMU J. Nat. Sci. (2020) 19 (3), pp: 563-579. DOI:*10.12982/CMUJNS.2020.0073*	2020
	Munasir, P.R Rahmawati, D.H Kusumawati, ZA Supardi, L. Rohmawati. *Characterization of Fe_3O_4@rGO Composite from Natural Materials: Study for Dyes Color (Methylene-Blue) Degradation in Aqueous Solution*, IJE Transaction-A (Basics), Belgrade University, WoS, Scopus Index (Q1), Vol 33(1), pp.12-22	2019
	Munasir, Triwikantoro, M.Zainuri, Ralp Baessler, Darminto. *Electrochemical and Microstructural Study on Corrosion of Al/SiO_2 Composites in 1 M NaCl Medium*, IJE Transaction-A (Basics), Belgrade University, WoS, Scopus Index (Q1), Vol 32(7), pp.982-990.	2019
	Munasir, Triwikantoro, M.Zainuri, Ralp Baessler, Darminto. *Mechanical strength and corrosion rate of Al/SiO_2 composites: prepared by active mixing medium and nanoparticle silica as reinforcement*, Journal of Physical Science (JPS). USM-Malaysia, Scopus Index, Q3, Vol 30(1), 2019, pp. 81–97	2019
	Munasir, A. J. Hairin Pribadi, Z. A. Imam Supardi, Moch. Zainuri, Triwikantoro, and Darminto, (2017). *Synthesis of Nano SiO2 Powders from Lusi with Continuous Method*, Advanced Science Letters,Scopus (Q4), 23(12), pp.12002-12006.	2018
	Budi Jatmiko, Binar Kurnia Prahani, **Munasir**, Z. A. Imam Supardi, Iwan Wicaksono, Nia Erlina, Paken Pandiangan, Rosyid Althaf, Zainuddin. (2018). *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, Scopus Q3, WoS, Vol 17, No 2, 2018, pp:300-319	2017
	Munasir, Triwikantoro, Mochamad Zainuri, Darminto: *Synthesis of SiO_2 Nanopowders Containing Quartz And Crystobalite Phases from Silica Sands,* Material Science of Poland (MSP) (De Gruyter), Q3, WoS, IF, *Vol.33(1),2015, pp:47-54,*	2015
	International Pocceding	
	Moch. Saifur Rijal, **Munasir*),** Diah Hari Kusumawati, Nugrahani Primary Putri,Zainul Arifin Imam, Nurul Hidayat, Ahmad Taufiq, and Sunaryono Sunaryono. (2020) Graphene from Glucose Coated Silica Sand for Water Purification Applications, AIP Conference, ***2251**, 040010 (**2020**).*	2020
	Munasir*), Nurul Hidayat, Diah Hari Kusumawati, Nugrahi Primary Putri, Ahmad Taufiq, and Sunaryono. (2020). Amorphous-SiO_2 Nanoparticles for Water Treatment Materials, AIP Conference, ***2251**, 040030 (**2020**).*	2020
	Sunaryono, Nadiya Miftachul Chusna, Nandang Mufti, **Munasir**, Juniastel Rajagukguk,and Ahmad Taufiq. (2020). Investigation of magnetic properties and anti-microbial activity of Mn0.25Fe2.75O4/Ag composites, AIP Conference, ***2251**, 040001 (**2020**)*	2020

	Desi Kurnia Yunedi, Ahmad Taufiq, Arif Hidayat, Ainun Nikmah, Sunaryono, and **Munasir**. (2020). Preparation of black iron oxide nanoparticles covered by Zingiber officinale extract, AIP Conference, ***2251****, 040016 (**2020**)*	2020
	D H Kusumawati, N P Putri, Asnawi, T S Dewi, and **Munasir, (2020).** Porosity Characteristics and Electrochemical Performance of rGO Coconut Shell as Supercapacitor Electrodes, *J. Phys.: Conf. Ser. 1491, 012058 (2020)*	2020
	Munasir, R.P. Kusumawati, D.H. Kusumawati**.** (2020). Magnetic Properties of Fe_3O_4@ Graphene: Preparation from Natural Material, *J. Phys.: Conf. Ser., **1569** (2020) 042087*	2020
	Dwikoranto, **Munasir,** R Setiani, Suyitno, W A Surasmi, S Tresnaningsih, and Pramonoadi,(2020). Effectiveness of Project Based Laboratory Learning to Increase Student's Science Process Skills and Creativity, *J. Phys.: Conf. Ser., 1491 (**2020**) 012006*	2020
	Dwikoranto, **Munasir,** R Setiani, Suyitno, W A Surasmi, S Tresnaningsih, and Pramonoadi,(2020). Increasing the Potential of Student Science Process Skills Through Project Based Laboratory, *J. Phys.: Conf. Ser., 1569 (2020) 042066.*	2020
	Munasir, Mahdalisa Dayu. (2020). Graphene/SiO2 Nanocomposite From Natural Material, *EAI-Procceding,(2020): MSCEIS-2019*	2020
	Munasir, N. Setyaningsih, S. Yanasin, Z.A.I. Supardi, A. Taufiq and Sunaryono (2019). Phase and Magnetic Properties of Fe_3O_4/SiO_2 Natural Materials-Based Using Polyethylene Glycol Media, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **515(2019)** 012017.	2019
	Ahmad Taufiq, Maqfiratun Ainun Jannah, Arif Hidayat, Nurul Hidayat, Nandang Mufti, **Munasir** and Hendra Susanto (2019). Structural and Magnetic Behaviours of Magnetite/Polyvinyl Alcohol Composite Nanofibers, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **515(2019)** 012081.	2019
	Munasir and R P Kusumawati (2019). Synthesis and Characterization of Fe3O4@rGO Composite with Wet-Mixing (ex-situ) Process, *J. Phys.: Conf. Ser.* **1171** 012048/ 2019	2019
	Munasir and A Terraningtyas (2019). Synthesis and characterization of Fe3O4/SiO2 composite with in-situ method: TEOS as SiO2 NPs precursor, *J. Phys.: Conf. Ser.* **1171** 012050/ 2019.	2019
	N P Putri, D H Kusumawati, L Agustina and **Munasir (2019)**. Effect of calcination temperature on characteristics of reduced Graphene Oxide (rGO) made from old coconut shell, *J. Phys.: Conf. Ser.* **1171** 012042/ 2019.	2019
	A Taufiq, M. Muzammil, A. Fuad, N. Hidayat, S. Sunaryono, N. Mufti, A. Hidayat, M. Diantoro and M. **Munasir (2019).** Preparation, Structural and Dielectric Behaviors of Co*x*Mn1-*x*Mn2O4 ($0 \leq x \leq 1$) Nanoparticles, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **367(2018)** 012050.	2019
	A S D Sari, B K Prahani, **Munasir** and B Jatmiko (2018). The improvement of students physics problem solving skills through the implementation of PO2E2W learning model assisted PhET media, *J. Phys.: Conf. Ser.* **1108** 012024. 2018.	2018
	Fiona Setyo Resmawati, Prabowo Prabowo, **Munasir.** 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, **Munasir** (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.	
	Munasir, ZA. Imam Supardi (2018). Morphology and Porosity of Fe3O4@SiO2 Core-Shell: Adsorption for Heavy Metal Pb(II), Atlantis Press: Series:Atlantis Highlights in Engineering, Volume 1, indexid WoS; Desember 2018.	2018
	Sunaryono, M. F. Hidayat, C. Insjaf, A. Taufiq, N. Mufti, and **Munasir** (2018). .Investigation of Magnetic Properties and Mechanical Responses on Hydrogel-TMAH-Magnetite, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **367(2018)** 012025 .	2018
	Sunaryono, M. N. Kholifah, Yudyanto, A. Taufiq, N . Mufti, R. Wulandari, **Munasir**, and M. Diantoro. Deformation of Ferrogel Based on *Carboxyl Methyl Cellulose* (CMC)/*Polyvinyl Alcohol* (PVA) Hydrogel, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **367 (2018)** 012016.	2018
	Munasir, (2018). Structure Analysis of Fe_3O_4@SiO_2 Core Shells Prepared from Amorphous and Crystalline SiO2 Particles, IOP*:* Conf. Series.: *Mater. Sci. Eng.* **367 (2018)** 012010.	2018
	N P Putri, D H Kusumawati, N Widiyanti and **Munasir (2018)**. Synthesis of polyaniline/cellulose composite as humidity sensor, *J. Phys.: Conf. Ser.* **997** 012009. 2018.	2018
	Munasir, N R D Luvita, D H Kusumawati1, N P Putri, Triwikantoro, Z A Imam Supardi (2018). Synthesis of PANi-SiO_2 Nanocomposite with In-Situ Polymerization Method: Nanoparticle Silica (NPS) Amorphous and Crystalline Phase, *J. Phys.: Conf. Ser*. **997** 012052. 2018	2018
	A Taufiq, S Bahtiar, Sunaryono, N Hidayat, A Hidayat, N Mufti, M Diantoro, A Fuad, **Munasir**, R Rahmawati. Aging Time Effect on Porous Characteristics of Natural Mud-based Silica Prepared by Hydrothermal-Coprecipitation Route, IOP: *Conf. Ser.: Mater. Sci. Eng.* **(202)** 012024 .2017.	2017
	A Ubaid, N Hidayat and **Munasir**. Aging Time Effect on Porous Characteristics of Natural Mud-based Silica Prepared by Hydrothermal-Coprecipitation Route, IOP: *Conf. Ser.: Mater. Sci. Eng.* **(202)** 012022 .2017.	2017
	Munasir, Wahyu Setyaningsih. Composites of Fe_3O_4/SiO_2 from Natural Material Synthesized by Co-Precipitation Method, IOP.: *J. Phys. Conf. Ser*. 202 012057. 2017	2017
	Munasir, Triwikantoro, M. Zainuri, Darminto: Synthesis of Silica Nanopowder from Slopeng Natural Sands via Alkalifussion Route, *AIP Conf. Proc. 1555, 28-31 (2013).*	2013
	National Journals	
	Munasir, Budi Jatmiko, Dwikoranto, Hainur Rasid. Pelatihan penulisan artikel ilmiah bagi guru sekolah dasar se-UPTD pendidikan kec. Sawahan kab. Nganjuk, Tawa Timur, *Jurnal ABDI*, 5(2), 119-125 (2020). Indexed Sinta-4.	2020
	Munasir, Hayyatul Umah, D.M.T Syahra. **U**ji potensiodinamik material pelapis anti-korosi: acrylic paint-PANI/SiO_2. *Journal of Physical Science and Engineering (JPSE)*, 1(1), 25-28 (2016). Indexed Sinta-3.	2016
	Munasir, Darminto, M. Zainuri, Triwikantoro. Ekstraksi dan sintesis nanosilika berbasis pasir bancar dengan metode basah., *Jurnal Penelitian Fisika dan Aplikasinya (JPFA),* 3(2), 12-17 (2013). Indexed Sinta-2.	2013

	Munasir, Darminto, M. Zainuri, Triwikantoro **. U**ji XRD dan XRF pada bahan meneral (batuan dan pasir) sebagai sumber material cerdas ($CaCO_3$ dan SiO_2). *Jurnal Penelitian Fisika dan Aplikasinya (JPFA),* 2(1), 20-29 (2012). Indexed Sinta-2.	2012
	Book/e-Book	
	Munasir: Nanopartikel Core-Shell Fe_3O_4/SiO_2 dan Aplikasinya, Jaudar Press, Surabaya-Indonesia	2019
	Munasir: Termodinamika, Jaudar Press, Surabaya-Indonesia	2019
	Munasir: Metode Fabrikasi bahan, Jaudar Press, Surabaya-Indonesia	2018
	Munasir: Bahan Elektrik, Jaudar Press	2017
	Munasir, et., al.: Advances in Nanotechnology, Vol 20: Nanopowders produced from Natural Sources Using the simple coprecipitation methode**,** Nova Science Publisher, Inc.	2017
	Munasir: Mekanika Klasik (seri 1), Unesa Press	2016
	Sri Mulyani & **Munasir**: Fisika Dasar I, Unesa Press	2015

	Organization	***Position***	***Period***
Profesional Organization	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
Researcher Identity	ResearchGate	***https://www.researchgate.net/profile/M-Munasir***	
	Scopus-ID	**57031904800**	
	Sinta-ID	**5988909**	
	Orchid-ID	**orcid.org/0000-0002-9526-3959**	
	Web of Science Researher-ID	**F-5901-2015**	