

Diah Hari Kusumawati, S.Si.,M.Si.

Position	***Materials Physics Lecturer in Physics Study Program***		
	Assistant Professor in Materials Physics		
	Degree/Non Degree	University/Institution	Year
Academic Career	Graduate program at Departemen of Physics (S-1 Program)	Institut Tekonologi Sepuluh Nopember Surabaya, Indonesia	1991-1995
	Postgraduate Program in Physics (Master program)	Institut Teknologi Bandung, Bandung, Indonesia	1999-2002
	Internal Quality Audit Training ISO 9001:2008 &19011:2011	Unesa, Indonesia	2015
	Workshop e-OFFICE dan Kearsipan	Unesa, Indonesia	2015
	Workshop Elektrospinning	ITB, Bandung	2017
Employement	Unesa's Institution		
	Position	Employer	Periode
	Assistant Professor on Physics Study Program	Unesa, Indonesia	2011-Now
	Heat of Laboratory on Physics Study Program	Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya- Indonesia	2016-2019
	Quality Assurance Unit Team	Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya- Indonesia	2019
	Kasublab Karakterisasi	Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya- Indonesia	2019
Research and Development project over the last 5 Years	**2019**: Pengaruh Waktu Ultrasonikasi Terhadap Karakteristik rGO Tempurung Kelapa sebagai Elektroda Superkapasitor, UNESA, IDR 10,000,000 (Head) **2018:** Sintesis *Reduced Graphene Oxide* Berbahan Dasar Limbah Tempurung Kelapa, UNESA, IDR 10,000,000 (Member) **2017**: Pemanfaatan Enceng Gondok sebagai Sensor Kelembaban, UNESA, IDR 10.000.000 (member)		

	2017: Karbon Sekam Padi Sebagai Bahan Alternatif Katoda Baterai *Rechargeable* , UNESA, IDR 10,000,000 (Head) **2016:** Optimasi Pemurnian Nanokalsit Berbahan Dasar Batu Gamping dengan Metode Kopresipitasi, Unesa IDR 10,000,000 (Membe) **2015 and 2016 (2 years):** Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro, Hibah Bersaing, Ministry of Research and Higher Education Project IDR 115,000,000 (Head)	
Patent and Propruetary Right	**Tittle**	**Year**
Potential Articles over last 5 years	Munasir, N., Kusumawati, R.P., Kusumawati, D.H., Supardi, Z.A.I., Taufiq, A., Darminto. 2020. Characterization of Fe3O4/rGO composites from natural sources: Application for dyes color degradation in aqueous solution. International Journal of Engineering, Transactions A: Basics,Volume 33, Issue 1, 2020, Pages 18-27 http://www.ije.ir/article_101143.html	2020
	Munasir, R.P. Kusumawati, D.H. Kusumawati. 2020. Magnetic Properties of Fe3O4@Graphene: Preparation from Natural Material. Journal of Physics: Conference Series 1569 (2020) 042087 IOP Publishing doi:10.1088/1742-6596/1569/4/042087	
	Munasir Munasir , Nurul Hidayat , Diah Hari Kusumawati , Nugrahi Primary Putri , Ahmad Taufiq , and Sunaryono Sunaryono. 2020. Amorphous-SiO2 nanoparticles for water treatment materials. AIP Conf. Proc. 2251, 040030-1–040030-7; https://doi.org/10.1063/5.0015673	
	Moch. Saifur Rijal, Antony Mahendra , Kusuma Dwi Lestari, Aprillia Nurcahya Putri, Munasir 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 Conf. Proc. 2251, 040010-1–040010-6; https://doi.org/10.1063/5.0015680	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. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012058	2020
	R Y Mufida and D H Kusumawati . 2020. The Effect of Addition Fe3O4 on the rGO/Fe3O4 Composite on Glucose Biosensor Performance. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012059	2020
	Effect of calcination temperature on characteristics of reduced Graphene Oxide (rGO) made from old coconut shell N P Putri, **D H Kusumawati**, L Agustina and Munasir Journal of Physics: Conference Series, Volume 1171,	2019
	Pemurnian Batu Kapur Berbasis Nano Kalsit dengan Metode Kopresipitasi Nugrahany Primary Putri, **Diah Hari Kusumawati** Jurnal Sains & Matematika	2019
	Phase Transition of SiO_2 Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect Munasir, Zainul Arifin Imam Supardi, Mashadi, Zumrotun Nisa, **Diah Hari Kusumawati**, Nugrahani Primary Putri, Ahmad Taufiq, Sunaryono, Nurul Hidayat and Darminto Journal of Physics: Conference Series, Volume 1093	2018
	Synthesis of polyaniline/cellulose composite as humidity sensor N P Putri, **D H Kusumawati**, N Widiyanti and Munasir Journal of Physics: Conference Series, Volume 997	2018
	Synthesis and Characterization of γ-Al_2O_3/SiO_2 Composite Materials Munasir, **Diah Hari Kusumawati**, Sunaryono, Nugrahani Primary Putri, Nurul Hidayat, Ahmad Taufiq and Zainul Arifin Imam Supardi Journal of Physics: Conference Series, Volume 1093	2018

	Synthesis of PANi-SiO2 Nanocomposite with In-Situ Polymerization Method: Nanoparticle Silica (NPS) Amorphous and Crystalline Phase Munasir, N R D Luvita, **D H Kusumawati**, N P Putri, Triwikantoro and Z A I Supardi Journal of Physics: Conference Series, Volume 997	2018
	Structure Analysis of Fe_3O_4@SiO_2 Core Shells Prepared from Amorphous and Crystalline SiO_2 Particles Munasir, A. S. Dewanto, **D. H. Kusumawati**, N. P. Putri, A. Yulianingsih, I. K. F. Sa'adah, A. Taufiq, N. Hidayat, S. Sunaryono and Z. A. I. Supardi IOP Conference Series: Materials Science and Engineering, Volume 367,	2018
	Karakteristik Transmitansi dan Absorbansi Komposit Epoksi/TiO2 sebagai Bahan Anti Ultraviolet **Diah Hari Kusumawati**, Dian Ayu Rachmawati Jurnal Sains & Matematika	2017
	Mechanical Properties of Polymer Concrete Epoxy Filler Particles with Nanocalcite-silica Nugrahani Primary Putri, **Diah Hari Kusumawati**, Lydia Rohmawati Jurnal Sains & Matematika	2016
	Karakterisasi Sifat Listrik dan Magnetik PANi/HCl/Fe3O4 akibat Penambahan Fe3O4 pada Komposit PANi/HCl Purwanto Purwanto, **Diah Hari Kusumawati** Jurnal Sains & Matematika	2016

Profesional Organization	Organization	Position	Period
	PSI	Member	2018-Now