



Lydia Rohmawati, S.Si., M.Si.

Position	<i>Lecturer of Materials Physics</i>		
	Assistant Professor in Materials of Physics		
	<i>Degree</i>	<i>University</i>	<i>Year</i>
Academic career	Bachelor program at Physics Study Program	Institut Teknologi Sepuluh Nopember (ITS), Surabaya-Indonesia	2002 - 2006
	Master Program at Physics Study Program	Institut Teknologi Sepuluh Nopember (ITS), Surabaya-Indonesia	2007 - 2009
	Pendidikan dan Pelatihan Prajabatan Golongan III	Pusat Pengembangan Tenaga Kependidikan Badan PSDNP dan PMP Kementerian Pendidikan Nasional - Indonesia	2011
	Peningkatan Keterampilan Dasar Teknik Instruksional (PEKERTI) dan Applied Approach (AA)	Unesa - Indonesia	2013
	Workplace Assessor Training	Unesa - Indonesia	2018
	Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)	Unesa - Indonesia	2009 - now
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	Lecturer on Physics Study Program	Unesa, Indonesia	2009-2017
	Assistant Professor in Physics Department	Unesa, Indonesia	2017-Now
	Coordinator of library in Physics Department	Unesa, Indonesia	2012-2014
	Coordinator of the Experiment Laboratory in Physics Department	Unesa, Indonesia	2014-2015
	Coordinator of the Magnetic Current laboratory in Physics Department	Unesa, Indonesia	2016-2018
	Coordinator of eco campus in MIPA faculty	Unesa, Indonesia	2016-2018

	Coordinator of the Modern Physics laboratory in Physics Department	Unesa, Indonesia	2018-2019
	Assessor of Competency	Unesa, Indonesia	2018-now
	Chair of Laboratory in Physics Department	Unesa, Indonesia	2019-now
Research and development projects over the last 5 years	2015: Pengembangan Bahan Ajar Mata Kuliah Bahan Paduan Berbasis Experiential Learning Untuk Membentuk Karakter Enterpreneur Dan Life Skill Mahasiswa (last years) – DIPA Unesa - IDR 162,500,000 (research member) 2015: Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (first year) – BOPTN Unesa – IDR 65,000,000 (research member) 2016: Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (last year) – BOPTN Unesa – IDR 50,000,000 (research member) 2016: Karakteristik Pelapis Tahan Korosi Berbahan Kalsit Cangkang Kerang – Faculty of Mathematics and Natural Sciences Project - IDR 10,000,000 (research member) 2017: Superkapasitor dengan Elektroda Berbasis Bahan Alam (first years) – DRPM Dikti project - IDR 55,321,000 (research chair) 2018: Superkapasitor dengan Elektroda Berbasis Bahan Alam (last years) – DRPM Dikti project - IDR 95,000,000 (research chair) 2019: Aplikasi Nanopartikel Bahan Alam (Dolomit Bangkalan) Untuk Mendukung Ketersediaan Agen Antibakteri Pada Rongga Mulut (first years) – DRPM Dikti project – IDR 116,190,000 (research chair) 2019: Aplikasi TiO₂ Nanotube Bahan Alam (Residu Pasir Ilmenit) Sebagai Agen Antibakteri dan Pemutih Pada Gigi (first years) - Universitas Negeri Surabaya (Unesa) Project - IDR 50,000,000 (research chair) 2020: Pengaruh Proses Double Boiler Pada Pengolahan Daun Sirih (Piper Betle L.) Untuk Menjaga Kandungan Zat Tanin Sebagai Antiseptik Alami Dalam Pembuatan Hand Sanitizer Untuk Mencegah Penyebaran Covid-19 – Universitas Negeri Surabaya (Unesa) Project – IDR 12,000,000 (research member) 2021: Karakteristik Nanopartikel Fe₃O₄ dari Pasir Mineral Tulungagung sebagai Material Antibakteri pada Gigi – Universitas Negeri Surabaya (Unesa) Project – IDR 20,000,000 (research chair) 2021: Aplikasi Nanopartikel TiO₂@PDA sebagai Pemutih Gigi yang Ramah Lingkungan - Universitas Negeri Surabaya (Unesa) Project – IDR 40,000,000 (research chair)		

Patents and proprietary rights	Title	Year
	Metode pencampuran basah dan sintering singkat nanokristalisasi superkonduktor keramik Bi-Sr-Ca-Cu-O berfasa 2212 dan 2223, Patent Number: P00200800809 (granted)	2017
	Metode pembuatan bahan antibacterial pada rongga mulut, Patent Number: P00201704516 (registered)	2017
	Proses pembuatan elektroda superkapasitor karbon aktif tempurung kelapa dan Fe ₃ O ₄ dari pasir besi Lumajang, Patent Number: P00201803114 (registered)	2018
	Proses pembuatan komposit dari karbon aktif tempurung kelapa dan polianilin sebagai bahan elektroda superkapasitor, Patent Number: P00201803104 (registered)	2018
	Komposit karbon aktif/rGO sebagai elektroda superkapasitor, Patent Number: P00201803106 (registered)	2018
	Material antibakteri dari pasir dolomit Bangkalan, Patent Number: P00201909336 (registered)	2019
	Sintesis Titanium Dioksida Nanotube Metode Hidrotermal dari Pasir Mineral Tulungagung, Patent Number: PID201906630 (registered)	2019
	Pengantar dan Pembuatan Superkapasitor Bahan Alam, Monograph, Copyright-Number: EC00201981292	2019
	Uji Aktivitas Antibakteri Ekstrak Sirih Hijau (<i>Piper Betle Linn</i>) Asal Nganjuk, Sidoarjo Dan Batu Terhadap Pertumbuhan Bakteri <i>Escherichia Coli</i> (Atcc 8739), <i>Salmonella Sp.</i> (Atcc 14028), <i>Staphylococcus Aureus</i> (Atcc 6538) Dan <i>Pseudomonas Aeruginosa</i> (Atcc 9027), Patent Number: P00202010640 (registered)	2020
Important publications over the last 5 years	YN Fidiyanti, L Rohmawati , NP Putri, W Setyarsih. 2016. Analisis Nilai Kapasitansi Spesifik Pada Elektroda Karbon Aktif/PVDF. <i>Jurnal Sains & Matematika</i> , 4 (2)	2016
	L Rohmawati , I Sucahyo, A Arief, M Anggaryani. 2016. Pelatihan penggunaan alat ukur dan pengukuran bagi guru IPA SMP Wilayah Sidoarjo. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> , 1 (1)	2016
	DK Maharani, D Savitri, L Rohmawati . 2017. Peningkatan efisiensi proses pewarnaan melalui pemberian agen fiksasi ramah lingkungan pada kelompok batik tulis Pasuruan. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> , 2 (2).	2017
	RI Sholikhah, W Setyarsih, Istiqomah, A Hefdea, E Wulancahayani, L Rohmawati . 2017. Stabilitas Termal dan Kristalinitas Komposit Polyvinylidene Fluoride) PVDF/SiO ₂ Pasir Vulkanik Kelud. <i>Jurnal Sains & Matematika</i> , 5 (2).	2017
	N Mufida, L Rohmawati , Istiqomah, A Hefdea, E Wulancahayani, W Setyarsih. 2017. Karakteristik Dielektrik Komposit Poly (Vinylidene Fluoride) PVDF/SiO ₂ Pasir Vulkanik Kelud. <i>Jurnal Sains & Matematika</i> , 6 (1).	2017
	L Rohmawati , W Setyarsih, N Anggraini, SH Intifadhah, S Holisa SP. 2018. Capacitance Stability of Supercapacitor from Activated Carbon/PVDF Electrode. <i>Atlantis Highlights in Engineering (AHE)</i> , volume 1.	2018
	S H Intifadhah, L Rohmawati , W Setyarsih and Tukiran. 2018. The	2018

	Effect of rGO Mass Composition on The Performance of Activated Carbon/rGO Supercapacitor Electrode Based on Coconut Shell (Cocos nucifera). <i>Journal of Physics: Conference Series</i> , Volume 1108, conference 1.	
	Z. Jannah, H. Mubarak, F. Syamsiyah, AAH Putri and L Rohmawati . 2018. Preparation of Calcium Carbonate (from Shellfish)/Magnesium Oxide Composites as an Antibacterial Agent. <i>IOP Conference Series: Materials Science and Engineering</i> , Volume 367, conference 1	2018
	L Rohmawati , W Setyarsih and T Nurjannah. 2018. Variation sweep rate cyclic voltammetry on the capacitance electrode activated carbon/PVDF with polymer electrolyte. <i>Journal of Physics: Conference Series</i> , Volume 997, conference 1	2018
	Suliyannah, H N P A Putri and L Rohmawati . 2018. Identification student's misconception of heat and temperature using three-tier diagnostic test. <i>Journal of Physics: Conference Series</i> , Volume 997, conference 1	2018
	L Rohmawati , W Setyarsih, NP Putri. 2019. Pembuatan Kit Sederhana Kalorimeter dari Bahan Bekas Bagi Guru IPA Fisika. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> , 4 (2).	2019
	S P Sholicha, W Setyarsih, G J Sabrina and L Rohmawati . 2019. Preparation of CaCO ₃ /MgO from Bangkalan's dolomite for raw biomaterial. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1	2019
	N Anggraini, L Rohmawati and W Setyarsih. 2019. Cycle stability of activated carbon/PANi composite as supercapacitor electrode based on natural material. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1	2019
	L Rohmawati , S H Intifadhah, W Setyarsih and Tukiran. 2019. Specific capacitance of composite electrode activated carbon/rGO of coconut shell (Cocos nucifera) as supercapacitor electrode. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1	2019
	Istiqomah Istiqomah, A Putri, T Patmawati, L Rohmawati , W Setyarsih. 2019. Ekstraksi Titanium Dioksida (TiO ₂) Anatase Menggunakan Metode Leaching dari Pasir Mineral Tulungagung. <i>Akta Kimia Indonesia</i> , Volume 4, Nomor 2.	2019
	V Wardani, L Rohmawati , W Setyarsih, D Alfarisi, A Subhan. 2020. Analysis of Charging/Discharging Supercapacitor Active Carbon/rGO Based on Natural Materials. <i>Journal of Physics: Conference Series</i> , Volume 1491, conference 1.	2020
	M. Munasir, L. Rohmawati , A. Taufiq, Darminto. 2020. Amorphous SiO ₂ nanoparticles from natural sands: Structure and porosity. <i>Chiang Mai University Journal of Natural Sciences</i> , Volume 19, Nomor 3.	2020
	W. Setyarsih, L. Rohmawati . 2020. Edukasi Robotika Siswa SDN Kecamatan Gayungan Surabaya Dan Pengembangan Softskillnya. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> , Volume 6, Nomor 1.	2020
	L. Rohmawati , N. Anggraini, S. Holisah SP, S. H. Intifadhah, W. Setyarsih. 2021. Effect of Polyaniline Mass Composition on	2021

	Electrochemical of Active Carbon/Polyaniline as Supercapacitor Electrode. IOP Conference Series: Materials Science and Engineering, Volume 1125, conference 1.			
	L Rohmawati , W Setyarsih, A Hefdea, E Wulancahayani. 2021. Application Titanium Dioxide Nanotube from Natural Source as Tooth Whitening. Journal of Physics: Conference Series, Volume 1805, conference 1.			2021
Activities in specialist bodies	<i>Organization</i>	<i>Position</i>	<i>Period</i>	
	Physics Society of Indonesia (PSI)	Member	2018 - now	