



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

<b>Position</b>	<b>Lecturer of Materials Physics</b>		
	Assistant Professor in Materials of Physics		
	<b>Degree</b>	<b>University</b>	<b>Year</b>
<b>Academic career</b>	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
<b>Employment</b>	<b>Position</b>	<b>Employer</b>	<b>Period</b>
	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
<b>Research and development projects over the last 5 years</b>	<b>2014:</b> Pengembangan Bahan Ajar Mata Kuliah Bahan Paduan Berbasis Experiential Learning Untuk Membentuk Karakter Enterpreneur Dan Life Skill Mahasiswa (first years) – DIPA Unesa - IDR 145,000,000 (research member)		
	<b>2014:</b> Sintesis Komposit PVDF/ SiO <sub>2</sub> Bahan Alam untuk Bahan Dielektrik Superkapasitor – DIPA Unesa – IDR 75,000,000 (research member)		
	<b>2015:</b> 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)		
	<b>2015:</b> Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (first year) – BOPTN Unesa – IDR 65,000,000 (research member)		
	<b>2016:</b> Karakterisasi Komposit Polianilin/Oksida Logam Sebagai Bahan Penyerap Gelombang Mikro (last year) – BOPTN Unesa – IDR 50,000,000 (research member)		
	<b>2016:</b> Karakteristik Pelapis Tahan Korosi Berbahan Kalsit Cangkang Kerang – Faculty of Mathematics and Natural Sciences Project - IDR 10,000,000 (research member)		
	<b>2017:</b> Superkapasitor dengan Elektroda Berbasis Bahan Alam (first years) – DRPM Dikti project - IDR 55,321,000 (research chair)		
	<b>2018:</b> Superkapasitor dengan Elektroda Berbasis Bahan Alam (last years) – DRPM Dikti project - IDR 95,000,000 (research chair)		
	<b>2019:</b> 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)		
<b>2019:</b> Aplikasi TiO <sub>2</sub> 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)			
<b>Patents and proprietary rights</b>	<b>Title</b>	<b>Year</b>	
	Metode pencampuran basah dan sintering singkat nanokristalisasi superkonduktor keramik Bi-Sr-Ca-Cu-O berfasa 2212 dan 2223, Patent Number: <b>P00200800809 (granted)</b>	2017	
	Metode pembuatan bahan antibacterial pada rongga mulut, Patent Number: <b>P00201704516 (registered)</b>	2017	
	Proses pembuatan elektroda superkapasitor karbon aktif tempurung kelapa dan Fe <sub>3</sub> O <sub>4</sub> dari pasir besi Lumajang, Patent Number: <b>P00201803114 (registered)</b>	2018	
	Proses pembuatan komposit dari karbon aktif tempurung kelapa dan polianilin sebagai bahan elektroda superkapasitor, Patent Number: <b>P00201803104 (registered)</b>	2018	
	Komposit karbon aktif/rGO sebagai elektroda superkapasitor, Patent Number: <b>P00201803106 (registered)</b>	2018	
Material antibakteri dari pasir dolomit Bangkalan, Patent Number: <b>P00201909336 (registered)</b>	2019		

	Sintesis Titanium Dioksida Nanotube Metode Hidrotermal dari Pasir Mineral Tulungagung, Patent Number: <b>PID201906630 (registered)</b>	2019
	Pengantar dan Pembuatan Superkapasitor Bahan Alam, Monograph, Copyright-Number: <b>EC00201981292</b>	2019
<b>Important publications over the last 5 years</b>	YN Fidiyanti, <b>L Rohmawati</b> , NP Putri, W Setyarsih. 2016. Analisis Nilai Kapasitansi Spesifik Pada Elektroda Karbon Aktif/PVDF. <i>Jurnal Sains &amp; Matematika</i> , <b>4</b> (2)	2016
	<b>L Rohmawati</b> , 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> , <b>1</b> (1)	2016
	DK Maharani, D Savitri, <b>L Rohmawati</b> . 2017. Peningkatan efisiensi proses pewarnaan melalui pemberian agen fiksasi ramah lingkungan pada kelompok batik tulis Pasuruan. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> , <b>2</b> (2).	2017
	RI Sholikah, W Setyarsih, Istiqomah, A Hefdea, E Wulanchayani, <b>L Rohmawati</b> . 2017. Stabilitas Termal dan Kristalinitas Komposit Polyvinylidene Fluoride) PVDF/SiO <sub>2</sub> Pasir Vulkanik Kelud. <i>Jurnal Sains &amp; Matematika</i> , <b>5</b> (2).	2017
	N Mufida, <b>L Rohmawati</b> , Istiqomah, A Hefdea, E Wulanchayani, W Setyarsih. 2017. Karakteristik Dielektrik Komposit Poly (Vinylidene Fluoride) PVDF/SiO <sub>2</sub> Pasir Vulkanik Kelud. <i>Jurnal Sains &amp; Matematika</i> , <b>6</b> (1).	2017
	<b>L Rohmawati</b> , 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, <b>L Rohmawati</b> , W Setyarsih and Tukiran. 2018. The 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.	2018
	Z. Jannah, H. Mubarak, F. Syamsiyah, AAH Putri and <b>L Rohmawati</b> . 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
	<b>L Rohmawati</b> , 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 <b>L Rohmawati</b> . 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> , <b>4</b> (2).	2019
	S P Sholicha, W Setyarsih, G J Sabrina and <b>L Rohmawati</b> . 2019. Preparation of CaCO <sub>3</sub> /MgO from Bangkalan's dolomite for raw biomaterial. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1	2019
	N Anggraini, <b>L Rohmawati</b> and W Setyarsih. 2019. Cycle stability of activated carbon/PANi composite as supercapacitor electrode	2019

	based on natural material. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1		
	L Rohmawati, S H Intifadhah, W Setyarsih and Tukiran. 2019. Specific capacitance of composite electrode activated carbon/rGO of coconut shell ( <i>Cocos nucifera</i> ) as supercapacitor electrode. <i>Journal of Physics: Conference Series</i> , Volume 1171, conference 1		2019
<b>Activities in specialist bodies</b>	<b><i>Organization</i></b>	<b><i>Position</i></b>	<b><i>Period</i></b>
	Physics Society of Indonesia (PSI)	Member	2018 - now