Staff Handbook



Name	*Lely Kurniawati, S.Pd., M.Si.*		
Post	*Analitical Chemistry, Assistant Professor*		
Academic career	*Initial academic appointment*	*University of Mataram*	*2008*
	Master degree	*Gadjah Mada University*	*2005*
	Undergraduate degree (Chemistry)	*Universitas Negeri Surabaya*	*1998*
Employment	*Lecturer*	*University of Mataram*	*2008-Present*
Research and development projects over the last 5 years	1. *Green Nanotechnology Innovation: Biogenic Synthesis of AgNPs as an Effective Catalyst for Formaldehyde Decomposition (2026, Funded by University of Mataram, IDR 50.000.000)* 2. *Silver Nanobiocatalysis for Methylene Blue Degradation (2026, Funded by University of Mataram, IDR 22.000.000)* 3. *Silver Nanoparticle-Based Paper Chips for Rapid Detection of Chronic Kidney Disease (2025, Funded by University of Mataram, IDR 40.000.000)* 4. *Biogenic Silver Nanoparticle (AgNP) based Colorimetric Sensor for Hg(II) Detection in Aqueous System (2025, Funded by University of Mataram, IDR 15.163.000)* 5. *Biosynthesis of Silver Nanoparticles Using Microwave Radiation as a Formalin Sensing Agent (2025, Funded by University of Mataram, IDR 15.163.000)* 6. *Synthesis of Activated Carbon/Chitosan/Carboxymethyl Cellulose Composite as Methylene Blue Adsorbent (2024, Funded by Institut Teknologi Sepuluh Nopember, IDR 17.000.000)*		
Industry collaborations over the last 5 years	*Project title -* *Partners -*		
Patents and proprietary rights	*Title*		*Year*

Important publications over the last 5 years	*Selected recent publications from a total of approx (13).* 1. *Dhony Hermanto, Yulida Tsaniyatinnuri, Saprini Hamdiani, Lely Kurniawati, Bambang Kuswandi, Rochmad Kris Sanjaya, Julinton Sianturi, Nurul Ismillayli. (2026), A user-friendly AgNP colorimetric sensor for mercury (II) monitoring in water systems. Environmental Nanotechnology, Monitoring & Management 2026;25:1 101125–37. https://doi.org/10.1016/j.enmm.2026.101125.* 2. *Dhony Hermanto, Yustika Yustika, Lely Kurniawati, Ulul Khairi Zuryati, Bambang Kuswandi, Nurul Ismillayli. (2026), Determination of Creatinine as Kidney Function Biomarkers using Immobilised Biogenic Silver Nanoparticles on a Microfluidic Paper-Based Analysis Device (µPAD). Biointerface Research in Applied Chemistry 2026;16:1 6. https://doi.org/10.33263/BRIAC161.006.* 3. *Lely Kurniawati and MS Muntini (2024). Analysis of Electronic and Thermoelectric Properties of Janus Materials Based on Molybdenum. Journal of Physics: Conference Series (2024); **2866** 012051. https://doi.org/10.1088/1742-6596/2866/1/012051.* 4. *Ummu Kulsum , Hamzah Fansuri , Eko Santoso, Lely Kurniawati, Alvin Romadhoni Putra Hidayat, Liyana Labiba Zulfa, Mustafa Al Bakri Abdullah, Ratna Ediati. (2024). Room temperature synthesis of copper-modified ZIF-8/Chitosan for enhanced adsorptive removal of congo red. South African Journal of Chemical Engineering (2024):49, 86-98. https://doi.org/10.1016/j.sajce.2024.04.006* 5. *Dhony Hermanto, Putri Jauhar Prihatini, Niza Yusnita Apriani, Lely Kurniawati, Murniati Murniati, Saprini Hamdiani, Nurul Ismillayli, Siti Raudhatul Kamali. (2024).* *Facile Synthesis of Activated Carbon/Alginate/Chitosan Composite Beads as Rhemazole Brilliant Blue R Adsorbent. Indonesian Physical Review 7 (3), 480-495. https://doi.org/10.29303/ipr.v7i3.343.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *Membership without a specific role need not be mentioned*