

STAFF HANDBOOK



Name	Dina Kartika Maharani, S.Si., M.Sc.		
Position	Lecturer on Inorganic Chemistry		
Academic Career	Degree	University	Year
	Bachelor Degree (Chemistry)	ITS Surabaya, Indonesia	2004
	Master Degree (Chemistry)	UGM, Indonesia	2008
	Doctoral Degree (Chemistry)	UNAIR, Indonesia	on Process
Employment	Position	Employer	
	Associate Professor	Universitas Negeri Surabaya	
Research and Development Project Over the Last 5 Years	Title	Funder	Year
	Application of Hydroxyapatite Silver Chitosan Nanomaterial Technology for Reconstruction of Fractured Teeth	DRPM	2021
	The Effect of Processing on the Functional Value of Garlic and Black Garlic as Immune Enhancement in the Pandemic Period	PNBP	2021
	Utilization of Environmentally Friendly Materials Chitosan-TiO ₂ Based for Anti UV and Self Cleaning Textile Applications	PNBP Melalui LPPM	2019
	Utilization of TiO ₂ -Based Nano Composites as a Self Cleaning Coating Material in Acrylic Paint	PNBP melalui FMIPA	2019
	Making Environmentally-friendly Slow Release Fertilizers from Zeolites and Chitosan as One of Ecopreneurship Products to Support Environmental Chemistry Subjects	Penelitian Kebijakan FMIPA Unesa	2017
	Making Environmentally-Friendly Slow Release Fertilizers from Zeolites and Chitosan as One of Ecopreneurship Products to Support Environmental Chemistry Courses	Penelitian Kebijakan FMIPA Unesa	2017
	Development of Inorganic Chemistry Practicum Handbook	BOPTN	2016

	which is Equipped with Material Safety Data Sheet		
	Making Nanocomposite Materials Based on Chitosan Biopolymer and ZnO / TiO ₂ Oxide Materials as UV Blocking and Self Cleaning Agents in the context of Developing Multifunctional Textile Innovations	Hibah Bersaing (DIKTI)	2016
Community Service Over The Last 5 Years	Title	Funder	Year
	Training on Making Handsanitizer Based on Natural Ingredients in Mojosarirejo Village Driyorejo to Support Health Protocols in Pandemic Era	PNBP	2021
	Batik Dyeing Process Training Using Natural Dyes and Environmentally Friendly Fixation Materials	PKM Kebijakan FMIPA Unesa	2017
	The Process of Coloring and Designing Environmentally Friendly-Sirih Kelor Pucangan Classical Batik Motifs	IBM DIKTI	2016
Industry Collaborations Over the Last 5 Years	Title	Partner	Year
	-	-	-
Patents and Property Right	Title	Patent ID	Year
	Transition Group of Inorganic Chemistry	ISBN: 978-602-449-086-7	2017
	Basic Chemistry	083838	2016
	Main Group of Inorganic Chemistry	082917	2016
Important Publications Over the Last 5 Years	<ol style="list-style-type: none"> Maharani, D.K., Sanjaya IGM, Amaria, Anggraeni M.A., Jannah L.R. (2021). Molecular Docking Analysis Chitosan-Zeolite-ZnO Nanocomposite and Its Potency Against SARS-CoV-2. <i>IOP Conference Series: Materials Science and Engineering</i> 1125 (1), 012006. Maharani, D.K., Savitri D. (2020). Peningkatan Produktivitas Minuman Mangrove Melalui Diversifikasi Jenis dan Kemasan Pada Kelompok Pengolah Pemasar Mina Sentosa Pasuruan. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat</i> 5 (2), 79-82 Maharani D.K, A'yun, Q., Setiarso P., Anggarani M.A.. (2019). Synthesis and Characterization of Nano TiO₂ with Sol-Gel Method as Self-Cleaning Agent on Acrylic Paint. <i>National Seminar on Chemistry 2019 (SNK-19)</i>, 82-85 Maharani D., Maharani, D.K., Basukiwardoyo, M.M.S., Alawiyah, S.T., Rusmini. (2019). The Study of Self-Cleaning Properties of TiO₂ Coated on Cotton Fabrics. <i>Mathematics, Informatics, Science, and Education International Conference 2019</i>. Amaria, Maharani, D.K., Sianita, M.M. (2019). Study of Surface Plasmon Resonance of Gold Nanoparticles Stabilized by L-arginine. <i>National Seminar on Chemistry 2019 (SNK-19)</i>, 239-242. Savana, R.T., Maharani, D.K. (2018). Usage of Chitosan-Silica with Crosslinking Agent as a Matrix For Slow Release Fertilizer. <i>Advances in Engineering Research, Atlantis Press. Vol 171</i> 		

7. Savana, R.T., **Maharani, D.K.** (2018). Analisis Komposisi Unsur Pupuk Lepas Lambat Kitosan-Silikaglutaraldehid (Analysis of the composition of the chitosan-silicaglutaraldehyde release fertilizer). *Unesa Journal Of Chemistry. Vol 7 No 1*
8. **Maharani, D.K.**, Novan, A. (2017). Effect of Zeolit-Chitosan Composites Coating on Urea Fertilizer as Slow Release Fertilizer. *Reseach Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS). Vol 8 No. 6*
9. **Maharani, D.K.**, Savitri, D., Rohmawati, L. (2017). Peningkatan Efisiensi Proses Pewarnaan melalui Agen Fiksasi Ramah Lingkungan pada Kelompok Batik Tulis Pasuruan (Improvement of Staining Process Efficiency through Ecofriendly Fixation Agents In Pasuruan Written Batik Group). *Jurnal Abdi. Vol 2 No 2 pp: 30-33*
10. **Maharani, D.K.** (2017). Pelepasan Nitrogen Pada Pupuk Slow Release Urea dengan Menggunakan Matriks Kitosan-Bentonit (Nitrogen Release in Urea Slow Release Fertilizer Using Chitosan-Bentonite Matrix). *Unesa Journal Of Chemistry. Vol 6 No 1*
11. **Maharani, D.K.**, Hidayah, R., Khasanah, L. (2017). Qualitative Study of Antibacterial Activity of Chitosan-ZnO/Al₂O₃ Nanocomposites. *Advanced Science Letters. Vol 23 No 12*

Activities in Specialist Bodies Over the Last 5 Years	Organization	Position	Period
	Himpunan Kimia Indonesia	Member	2014-now