

STAFF HANDBOOK



Name	Prof. Dr. Sari Edi Cahyaningrum, M.Si.		
Position	Lecturer on Inorganic Chemistry		
Academic Career	Degree	University	Year
	Bachelor Degree (Chemistry)	ITS - Indonesia	1989 - 1994
	Master Degree (Inorganic Chemistry)	UGM -Indonesia	1998 - 2001
	Doctoral Degree (Inorganic Chemistry)	UGM -Indonesia	2005 - 2009
Employment	Position	Employer	
	Professor	Universitas Negeri Surabaya	
Research and Development Project Over the Last 5 Years	Title	Funder	Year
	Metformin Encapsulation with Chitosan Alginate Composite as Anti Diabetes Type 2 Drug Slow Release System	DRPM	2021
	Application of Hydroxyapatite Silver Chitosan Nanomaterial Technology for Reconstruction of Fractured Teeth	DRPM	2021
	Antioxidant Potential in Spiced Soy Milk to Boost the Immune System as an Antidote to Covid-19	PNBP	2020
	Synthesis and Characterization of Indonesian Local Based Bone Grafts as Candidates for Bone Implants to Support Independent Indonesia	PNBP	2020
	Metformin Encapsulation with Chitosan for Diabetes Drugs	DRPM	2019-2020
	Optimization of Chitosan-based Biomaterial Synthesis for Bone Tissue Restoration	DRPM	2019
	Development of Hydroxyapatite Chitosan Collagen Biomaterial for Bone Tissue Restoration	Penelitian Berbasis Kompetensi	2018

	Mini Laboratory of WWTP as Prototype on Chemical Laboratory Waste Treatment as an Effort on Environmental Conservation	Penelitian Strategis Nasional Institusi	2018
	Development of Biomaterials (Chitosan Hydroxyapatite Collagen for Bone Tissue Restoration)	Penelitian Berbasis Kompetensi	2017
	Studying the Characteristics of N-acetyl Glucosamine Compounds in Chitin Hydrolysis Process Using Chitinase Enzyme from Pseudomonas sp TNH 54	Penelitian Fundamenta(DIKTI)	2016
	Analysis of heavy metal content in the soil around the chemistry department building, faculty of mathematic and natural science Universitas Negeri Surabaya	BOPTN	2016
Community Service Over The Last 5 Years	Title	Funder	Year
	Training on Making Red Rice Soybean Milk as an Alternative for New Entrepreneurs for Dharma Wanita FMIPA Unesa	PNBP	2021
	Assistance for Entrepreneurial Empowerment of MSMEs Health Drinks Sari Soybean Spices	PNBP	2021
	Empowering Women Through Home Business Soap Industry in Sidokare Village, Nganjuk Regency	PNBP	2021
	PKM KECE Unesa Disinfectant to Eradicate Covid-19	PNBP	2020
	Making Hand Soap as a Defense Against Covid-19 in Tuban Regency	PNBP	2020
	Training on Making Spiced Soybean Juice to Increase Body Endurance in Facing the Covid-19 Pandemic for Dharma Wanita FMIPA Unesa	PNBP	2020
	Entrepreneurship Training To Improve the Economy of Sidokare Village Residents Rejoso Nganjuk	PNBP	2019
	Implementation of Science and Technology for Onion Farmer Group Community In Nganjuk	BOPTN	2016
Industry Collaborations Over the Last 5 Years	Title	Partner	Year
Patents and Property Right	Title	Patent ID	Year
	Materials and Process of Pirazinamide Encapsulation Using Chitosan Calcium Alginate with Tween 80 Emulsifier	Status: Granted	2018
	Synthesis of Hydroxyapatite from Eggshells by Base Sedimentation	682018	2018

	Method		
	Basics of Biomaterial Development		2018
	Inorganic Chemistry	82602	2016
	Basic Chemistry	83838	2016
	Chitosan Based Biomaterials	83838	2016
	Material dan proses enkapsulasi isoniazid menggunakan kitosan kalsium alginate dengan emulsifier tween 80	P00201500325	2015
Important Publications Over the Last 5 Years	<ol style="list-style-type: none"> 1. Darmawan, D., and Cahyaningrum, S.E. (2021). The Effect Of Concentration Tween 80 On Metformine Encapsulated At Chitosan-Alginate Matrix. <i>World Journal of Pharmaceutical Research Vol 10 Issue 9 pp 73-79.</i> 2. Herdyastuti, N., Taufikurrohmah, T., Rusmini, R., Mustaji, M, and Cahyaningrum, S.E. (2021) Pembuatan Sabun Cuci Tangan Sebagai Upaya Pemutusan Penyebaran Rantai Covid-19 di Kabupaten Tuban. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat 6 (2), 161-166.</i> 3. Wikandari, P.R., Yuanita, L., Cahyaningrum, S.E., and Herdyastuti, N. (2021) Pelatihan Pembuatan Sari Kedelai Rempah Untuk Peningkatan Daya Tahan Tubuh Dalam Menghadapi Pandemi Covid-19. <i>Jurnal ABDI: Media Pengabdian Kepada Masyarakat 6 (2), 155-160.</i> 4. Imroni, W., Sholikhah, A.M., Cahyaningrum, S.E., Amaria, and Herdyatuti, N. (2020). The Encapsulation Of Metformine On Chitosan Matrix As Diabetes Mellitus Drug Slow Release System. <i>Rasayan journal of chemistry, Vol.13, No.1.</i> 5. Taufikurohmah, T., and Cahyaningrum, S.E. (2020). Improving Life Skills and Community Income With Soap Entrepreneurs. <i>International Joint Conference on Arts and Humanities (IJCAH 2020), 1401-1405.</i> 6. Cahyaningrum, S.E., Herdyatuti N., and Kurniasari, M. (2019). Use of Hydroxyapatite from Egg-shell as Raw Material for Synthesis Bone Graft. <i>Oriental Journal of Chemistry. Vol. 35 No. 3.</i> 7. Khoiriyah, M. and Cahyaningrum, S.E. (2018). Sintesis dan Karakterisasi Bone Graft dari Komposit Hidroksiapatit/Kolagen/Kitosan (HA/Coll/Chi) dengan Metode Ex-Situ sebagai Kandidat Implan Tulang (Synthesis and Characterization of Bone Graft from Hydroxyapatite / Collagen / Chitosan (HA / Coll / Chi) Composites with Ex-Situ Method as a Bone Implant Candidate). <i>Unesa Journal Of Chemistry. Vol 7 No 1/</i> 8. Cahyaningrum, S.E., Herdyastuti, N., Supangat, D., Devina, B., and Kurniasari, M. (2018). Fabrication of Nanohydroxyapatite/ Scrawl Collagen/Chitosan Composite for Bone Graft Candidate. <i>Rasayan Journal of Chemistry. Vol 11, No 2, pp 488-493</i> 9. Cahyaningrum, S.E., Herdyastuti, N., Wiana F., Devina, B., and Supangat, D. (2018). Synthesis of Hydroxyapatite from Crab Shell (<i>Scylla serrata</i>) Waste with Different Methods Added Phosphate. <i>Advances in Engineering Research, Atlantis Press. Vol 171.</i> 10. Cahyaningrum, S.E., Herdyatuti, N., Firdausa, A., and Yanrita, D. (2017). Synthesis and Characterization Chitosan-glutaraldehyde Alginate Blends For Candidate Hemodialysis Membran. <i>Rasayan Journal of Chemistry Vol 10 No. 3 . pp 959- 966.</i> 11. Cahyaningrum, S.E., Herdyastuti, N., Devina, B., and Supangat, D. (2018). Synthesis and Characterization of Hydroxyapatit Powder by Wet Precipitation Method. <i>IOP Conf. Series: Journal of Physics. Conf. Series 299 0122039</i> 		

12. Arifah, S.L., and **Cahyaningrum, S.E.** (2017). Sintesis dan Karakterisasi Komposit Hidroksiapatit-Kitosan-Kolagen sebagai Biomaterial Bone Graft (Synthesis and Characterization of Hydroxyapatite-Chitosan-Collagen Composites as a Bone Graft Biomaterial). Unesa Journal Of Chemistry. Vol 6 No 2
13. **Cahyaningrum, S.E.**, Narsito, Santoso, J., and Agustini, R. (2016). Capacity and Kinetic Adsorption Calcium Metal Ion on Chitosan Nano Beads. Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS).
14. Kurniasari, M., and **Cahyaningrum, S.E.** (2016). Sintesis dan Karakterisasi Komposit Hidroksiapatit-Kolagen-Kitosan(HA/Coll/Chi) dengan Metode Ex-situ. Unesa Journal Of Chemistry. Vol 5 No 3.

Activities in Specialist Bodies Over the Last 5 Years	Organization	Position	Period
	Himpunan Kimia Indonesia (HKI)	Member	2010 - now
	Perkumpulan Pendidik IPA Indonesia (PPII)	Member	2015 - 2023