STAFF HANDBOOK



Name	Prof. Dr. Nita Kusumawati, M.Sc.		
Position	Lecturer on Analytical Chemistry		
Academic Career	Degree	University	Year
	Bachelor Degree (Analytical Chemistry)	ITS, Indonesia	2004
	Master Degree (Analytical Chemistry)	UGM, Indonesia	2008
	Doctoral Degree (Analytical Chemistry)	Universitas Airlangga, Indonesia	2013
Employment	Position	Employer	
Employment	Professor	Universitas Negeri S	Surabaya
	Title	Funder	Year
	Standarisasi Produk Hand Sanitizer Berbasis Etanol (HSBE) Berbahan Baku Komoditas Lokal dan Limbah Lignoselulosa untuk Mereduksi Potensi Pemalsuan dalam Pencegahan Penularan Covid-19	DRPM	2021
Research and Development Project Over the Last 5 Years	Fabrikasi Skala Pilot Eco-Batik Unesa Sebagai Upaya Mewujudkan Sustainable Development Goals (SDGs) 2030	PBNP	2021
	Application of Polyvinylidene fluoride-Hexafluoropropylene Membranes as a Supporting Layer to Prevent Electrolyte Leaks and Electrode Corrosion in Dyes Sensitized Solar Cell Based on Natural Pigment	Hibah Penelitian Terapan DRPM Dikti Kemendikbud	2020
	Development of Herbal-Based Food Processes as Immunostimulant and Anti-Microbial Products to Prevent the Spread of COVID-19 Infection	Hibah Penelitian Pengembangan Prototipe Industri	2020
	Standardization of Natural Dyes and Encapsulation of <i>Psidium</i> guajava, Syzygium aqueum, Garcinia	Hibah Penelitian Terapan Unggulan Perguruan Tinggi	2019

	mangostana as Leading Green		
	Technology of the Textile Industry Utilization of Pad Steam Dyeing Technology (PSD) to Increase the	Hibah Penelitian Pengembangan	2019
	Effectiveness and Efficiency of Universitas Negeri Surabaya Eco-Batik Pilot Line Fabrication Scale	Prototipe Industri	
	Standardization of High- performance Membranes with Coating and Blending Techniques using Polyvinylidene fluoride, Polysulfone and Polyetherimide as Industry's Leading Multifunctional Technology	Hibah Penelitian Unggulan Perguruan Tinggi	2018
	Standardization of High Performance Membranes with Coating and Blending Techniques Using Polivinylidene Fruoride, Polysulfone and Polyetherimide As Industry's Leading Multi-Function Technology	Penelitian Terapan Unggulan Perguruan Tinggi	2018
	Optimization of High-Performance Ultrafiltration Membrane Engineering with Phase / Immersion-Precipitating and Blending Inversion Techniques using Polyvinylidene Fluoride, Polysulfone and Polyetherimide as Superior Multifunction Technology (Third Year)	Hibah Penelitian Unggulan Perguruan Tinggi	2017
	Optimization of Raw Materials through Reuse of Batik Remaining Night to Zero Waste Management as an Effort to Develop Batik Industry in Java Economic Corridor (Third Year)	Hibah Penelitian Prioritas Nasional MP3EI DP2M	2017
	Optimization of Raw Materials through Reuse of Batik Remaining Night to "Zero Waste Management" as an Effort to Develop the Java Economic Corridor Batik Industry Mainstay (Second Year)	Hibah Penelitian Prioritas Nasional MP3EI DP2M	2016
	Optimization of High-Performance Ultrafiltration Membrane Engineering with Phase / Immersion-Precipitating and Blending Inversion Techniques using Polyvinylidene Fluoride, Polysulfone and Polyetherimide as Superior Multifunction Technology (Second Year)	Hibah Penelitian Unggulan Perguruan Tinggi	2016
Community	Title	Funder	Year
Service	PKM Usaha Batik Tulis Pewarna	DRPM Kemenristek	2020

Over The Last 5	Alam Pakandangan Sumenep	Dikti	
Years	Madura	DIKU	
2 00.2 0	Natural Color Written Batik		
	Business SMEs in Pakandangan		
	Sumenep Madura		
	Community Service of Batik Paciran	DRPM Kemenristek	2019
	SMEs	Dikti	
	Community Service of Food &	DRPM Kemenristek	2018
	Beverage SMEs in Gondanglegi	Dikti	
	Kulon Village, Gondanglegi District,		
	Malang Regency		
	Science for Community of	DRPM Kemenristek	2017
	Dishwashing Soap Producers SMEs	Dikti	0016
	Science for Community of Batik	DRPM Kemenristek	2016
* * .	Pacitan SMEs	Dikti	**
Industry Collaborations	Title	Partner	Year
Over the Last 5			
Years			
1 cars	Title	Patent ID	Year
	Herbal Tea Based on Spacebars and		
	Methods of Manufacture	P00202008953	2020
	Making Herbal Sweet Based on	D0000000000000000000000000000000000000	0000
	Spres and The Method of Its Making	P00202008958	2020
	Method for Making Hand Sanitizer		
	Gel, Spray, and Tissue Based on	P00202009047	2020
	Bioethanol		
	Method of Making Herbal Jelly		
	Drink Based on Ginger, Curcuma,	P00202008956	2020
	and Galangal		
	Coloring and Encapsulation <i>Psidium</i>		
	guajava, Syzygium aqueum, Garcinia	P00202008955	2020
	mangostana as The Leading Green Technology of The Textile Industry		
	Method of Making Halal Gelatin		
Patents and	with Polysulfone (PSf) Membrane	P00202008959	2020
Property Right	Filtration	100202000909	_0_0
	Method of Making Herbal Tea		
	Products Based on Ginger,	P00202008954	2020
	Curcuma, and Galangal		
	Instant Herbal Drinking Based on		
	Spaces and The Method of Its	P00202008960	2020
	Making Mary Parad		
	Manufacture of Water Based Natural Dyes and Application		
	Natural Dyes and Application Methods using Pad Steam Dyeing	P00202004895	2019
	Technology		
	Halal Gelatin and the Method of	D0000110011	65.5
	Making it	P00201606112	2018
		P00201805325	2018
	Herbal Empon-empon Powder and	P00201810039	2018
	Manufacturing Method		
	Making Water-Based Natural Dyes	P00201810035	2018

	and Their Application Methods		
	Modified Batik Night (Wasp Night,		
	Night Waste, Gondorukem, Kendal)	P00201606112	2016
	and Its Manufacturing Methods		
	Making Batik Natural Dyes from		
	Mangosteen Skin Waste Material	P00201606113	2016
	and Its Application in Cotton Fabric		
	Staining		
	The Making of Batik Natural Dyes		
	from the Citrus Skin Waste Material	P00201606111	2016
	and Its Application in Staining	100201000111	
	Cotton Fabric		
	Polysulfone Composite Membrane		
	(PSf) - Polyvinylidene fluoride	P00201606108	2016
	(PVDF) and its method of manufacture		
	Polyetherimide (PEI) Asymmetry		
	Membrane and Manufacturing	P00201606109	2016
	Method	100201000109	2010
	1. Bahar, A., and Kusumawati, N	[. (2021). Comparison of	the Physico-
	Chemical Properties of Type-B H		-
	Material. IOP Conference Series: Earth and Environmental Science 709 (1), 012033		
	2. Kusumawati, N., Muslim, S. (2021). Exploration and Standarization of		
	Coconut Fiber Waste Utilization in Batik Dyeing Process. IOP		
	Conference Series: Earth and Environmental Science 709 (1), 012034		
	3. Kusumawati, N., Muslim, S., and Kistyanto, A. (2021). Utilization of		
	Teak Leaf Waste as an Environmentally Friendly Dyes. IOP Conference		

Important Publications Over the Last 5 **Years**

- Series: Earth and Environmental Science 709 (1), 012026
- Kusumawati, N., Rahmadyanti, E., and Sianita M.M. (2021). Batik became two sides of blade for the sustainable development in Indonesia. Green Chemistry and Water Remediation: Research and Applications, 59-97
- Bahar A., Kusumawati, N., and Muslim, S. (2020). Preparation and Characterization of Goatskin Gelatin as Halal Alternative to Bovine Gelatin. RASAYAN Journal of Chemistry (RJC). Vol. 12 No. 2
- 6. **Kusumawati, N.,** Samik, S. and Muslim, S. (2020). New Natural Dyes Development: Caesalpinia sappan L.-Curcuma Longa Blended Dyes. RASAYAN Journal of Chemistry (RJC). Vol. 12 No. 2
- 7. Kusumawati, N., Santoso A.B., Wijiastuti, A. and Muslim, S. (2020). Extraction, Optimization, and Dyeing Standardization using Fresh Orange Citrus Peel on Cotton Fabrics. International Journal of Advanced Science, Engineering, and Information Technology (IJASEIT). Vol. 10 No. 3
- 8. **Kusumawati, N. et.al.** (2019). The Development of PVDF/PEI Blended Membrane: Effect of Stirring Time on Membrane Characteristics and Performance. RASAYAN Journal of Chemistry (RJC). Vol. 12 No. 2
- 9. Bahar A., Kusumawati, N., Rusijono, R. (2019). The Effect of Curing and Extraction Time against Yield and Quality of Type B Gelatin from Goat Bone. National Seminar on Chemistry (SNK 2019). Vol. 1
- 10. Purwidiani, N., Setiarso, P., and Kusumawati, N. (2019). Increased Storage and Nutrition Content of Processed Foods through Vacuum Packaging. National Seminar on Chemistry (SNK 2019). Vol. 1
- 11. **Kusumawati, N.,** and Kistyanto, A. (2019). Quality Improvement of

- ABBS Hand Writing Batik Production through Standardization of Natural Dyeing using Water Guava and Mango Leaves. *National Seminar on Chemistry (SNK 2019). Vol. 1*
- 12. **Kusumawati, N.,** and Kistyanto, A. (2019). Exploration of Natural Dyes by Using a Combination of Caesalpinia sappan and Leucaena leucocephala L. Leaves. National Seminar on Chemistry (SNK 2019). Vol. 1
- 13. **Kusumawati, N.,** Samik, S. and Muslim, S. (2019). Extraction and Application of Natural Dyes from Brazilwood and Water guava leaves. *National Seminar on Chemistry (SNK 2019). Vol. 1*
- 14. Setiarso, P., Bahar, A., and **Kusumawati, N.** (2019). Standardization of Herbal Tea Quality Production Baureno Bojonegoro Society. *National Seminar on Chemistry (SNK 2019). Vol.* 1
- 15. Samik, S., Santoso, A.B., and **Kusumawati, N.** (2019). Diversification of "NAJWA" Hijab Staining using Tie-Dye Method Based on Natural Dyes. *National Seminar on Chemistry (SNK 2019). Vol. 1*
- **16. Kusumawati, N.** et.al. (2018). Synergistic Ability of PSf and PVDF to Develop High-Performance PSf/PVDF Coated Membrane for Water Treatment. *RASAYAN Journal of Chemistry (RJC). Vol. 11 No. 1*
- 17. **Kusumawati, N.** et.al. (2018). Transport Properties, Mechanical Behavior, Thermal and Chemical Resistance of Asymmetric Flat Sheet Membrane Prepared from PSf/PVDF Blended Membrane on Gauze Supporting Layer. *Indonesian Journal of Chemistry (IJC). Vol. 18 No. 2, 2018*
- 18. **Kusumawati, N.,** Setiarso, P., and Muslim, S. (2018). Polysulfone/Polyvinylidene fluoride Composite Membrane: Effect of Coating Dope Composition on Membrane Characteristics and Performance. *RASAYAN Journal of Chemistry (RJC). Vol. 11 No. 3*
- 19. Bahar, A., Rusijono, R., and **Kusumawati, N.** (2018). Extraction and Characterization of The Base Halal Gelatin Based on Bovine Bone. Advances in Engineering Research, Atlantis Press. Vol 171. ISSN: 2352-5401, ISBN: 978-94-6252-591-7
- 20. **Kusumawati, N.** et.al. (2018). Development of Textile Natural Dyeing using Hybrid Dyes from Mango Leaves Turmeric. *Advances in Engineering Research, Atlantis Press, . Vol 171. ISSN: 2352-5401, ISBN: 978-94-6252-591-7*
- 21. Setiarso, P., **Kusumawati, N.,** Rusijono, R. and Samik, S. (2018). The Production and Characterization of Kaempferia Galangal L-based Herb Powder: Blanching and Drying Procedure Influence on Proximate, Metal, and Microbial Contamination Level. *Advances in Engineering Research, Atlantis Press, . Vol 171. ISSN: 2352-5401, ISBN: 978-94-6252-591-7*
- 22. Setiarso, P., **Kusumawati, N.,** Santoso, A.B., Wibawa, S.C. (2018). The Development of New Composite Polymer Membrane: Polysulfone (PSf) Polyetherimide (PEI) Coated Membrane. *Advances in Engineering Research, Atlantis Press, . Vol 171. ISSN: 2352-5401, ISBN: 978-94-6252-591-7*
- **23. Kusumawati, N.** et.al. (2018). The Development of PVDF/ PEI Blended Membrane: Effect of Stirring Time on Membrane Characteristic and Performance. *Proceeding of The International Conference on Science and Technology (ICST 2018). Vol 1*
- 24. Setiarso, P., **Kusumawati, N.** and Muslim, S. (2018). Optimazation of Slice Thickness, Drying Method, and Temperature of Turmeric Rhizome

	(Curcuma Longa L) Based on Wa	ater Content and Function	nal Compound
	Degradation. Proceeding of The International Conference on Science and		
	Technology (ICST 2018). Vol 1 25. Kusumawati, N. Setiarso, P., and Sianita, M.M. (2017). Pengaruh Komposisi Larutan Cetak dan Temperatur Pengadukan Terhadap Karakteristik Fisik, Mekanik dan Permeabilitas Air Murni Membran Polyether Imide (Effect of Print Solution Composition and Stirring		
	Temperature on Physical, Mechanical and Permeability Characteristics		
	of Pure Water Polyether Imide Membranes). <i>Indonesian Chemistry and</i>		
	Aplication Journal (ICAJ) . Vol 1 No.1		
	26. Kusumawati, N., Kostiari, T., and Santoso, A.B. (2017). The influnce of		
	Washing Process Using TRO on Indigosol Dying Quality, Leaching		
	Percentage, and Mechanical Strength of Mori Fabric. Reseach Journal of		
	Pharmaceuti cal, Biological and Chemical Sciences (RJPBCS). Vol 8 No. 6		
	27. Kusumawati, N. et.al. (2017). Product Standarization of Ginger		
	(Zingiber officinale Rosc.) and Red Ginger (Zingiber officinale var.		
	Rubrum) Simplicia through Washing Time, Slice Thickness and Raw		
	Materials Drying Process Optimization. International Journal of		
	Advanced Science, Engineering, and Information Technology (IJASEIT). Vol. 7 No. 1		
	28. Kusumawati, N. et.al. (2017). Extraction, Characterization and Application of Natural Dyes from the Fresh Mangosteen (Garcinia		
	mangostana L.) Peel. <i>International Journal of Advanced Science</i> ,		
	Engineering, and Information Technology (IJASEIT). Vol. 7 No. 3		
	29. Kusumawati, N., Kistyanto, A., and Muslim, S. (2017). The Effect of		
	Blending Composition Against Latched Power and the Resistance of		
	Batik Wax Against Cracking and Alkaline Chemicals. <i>International</i>		
	Journal of Advanced Science, Engineering, and Information Technology		
	(IJASEIT). Vol. 7 No. 4		
Activities in	Organization	Position	Period
Specialist			
Bodies Over the			
Last F Vacus			l

Last 5 Years