

## STAFF HANDBOOK



<b>Name</b>	<b>Rusmini, S.Pd., M.Si.</b>		
<b>Position</b>	<b>Lecturer in Chemistry Education</b>		
<b>Academic Career</b>	<b>Degree</b>	<b>University</b>	<b>Year</b>
	Bachelor Degree (Chemistry Education)	IKIP Surabaya	1997-2002
	Master Degree (Analytical Chemistry)	Universitas Gadjah Mada	2003-2005
	Doctoral Degree (Science Education)	Universitas Negeri Surabaya	On Process
<b>Employment</b>	<b>Position</b>	<b>Employer</b>	
	Associate Professor	Universitas Negeri Surabaya - Indonesia	
<b>Research and Development Project Over the Last 5 Years</b>	<b>Title</b>	<b>Funder</b>	<b>Year</b>
	Pabrikasi Obat Nanogold Nanosilver untuk Mendukung Pengembangan Bahan Baku Obat Dalam Negeri	DRPM	2021
	Pembelajaran Praktikum Kimia Dasar Berwawasan Green Chemistry Berbasis Bahan Sekitar untuk Menunjang Kegiatan Praktikum di Era Pandemi Covid 19	PNBP	2021
	Pabrikasi obat nanogold nanosilver untuk mendukung pengembangan bahan baku obat dalam negeri	Penelitian pengembangan	2020
	Mini laboratorium IPAL sebagai prototipe pada pengolahan limbah laboratorium kimia sebagai upaya pada pelestarian lingkungan <i>(WWTP Mini laboratory as a Prototype in Chemical Laboratory Waste Treatment as an Effort to Preserve the Environment)</i>	Penelitian Terapan Lanjutan, Dana DRPM Mono Tahun	2019
	Pabrikasi Obat Nanogold-Nanosilver untuk Mendukung Pengembangan Bahan Baku Obat Dalam Negeri <i>(Nanogold-Nanosilver Drug</i>	Penelitian Pengembangan, Dana DRPM Multi Tahun	2019

	<i>Manufacturing to Support the Development of Domestic Medicines Raw Materials)</i>		
	Pemanfaatan Material Ramah Lingkungan Berbasis Kitosan-TiO <sub>2</sub> Untuk Aplikasi Anti UV dan Self Cleaning Tekstil  <i>(Utilization of Environmentally Friendly Materials Chitosan-TiO<sub>2</sub>-Based for Anti UV and Self Cleaning Textile Applications)</i>	Penelitian Terapan R&D (Saintek), Dana PNBP Melalui LPPM	2019
	Upaya Peningkatan Keterampilan Berpikir Mahasiswa Melalui Implementasi Bahan Ajar Kimia Dasar I Berbasis Problem Solving secara Blended Learning  <i>(Efforts to Improve Students' Thinking Skills Through the Implementation of Basic Chemistry I Material Based on Problem Solving Based on Blended Learning)</i>	PNBP Melalui FMIPA	2019
	Mini Laboratorium IPAL sebagai Prototipe pada Pengolahan limbah laboratorium Kimia sebagai Upaya pada Pelestarian Lingkungan  <i>(WWTP Mini Laboratory as a Prototype in Chemical Laboratory waste treatment as an Effort on Environmental Conservation)</i>	Penelitian Strategis Nasional Institusi	2018
	Pengembangan Perangkat Pembelajaran Berbasis Proyek untuk Melatihkan Eco Innovation pada Mata Kuliah Analisis Pangan  <i>(Development of Project-Based Learning Tools for Practicing Eco innovation in Food Analysis Course)</i>	Penelitian Dana PNBP FMIPA Unesa	2018
	Uji Kualitas Air Minum dalam Kemasan Produksi Unesa  <i>(Quality Test of Packaged Drinking Water Produced by Universitas Negeri Surabaya)</i>	Penelitian Dana PNBP FMIPA Unesa	2018
	Bioremediasi Sebagai Upaya Penangan Pencemaran Logam Berat Pada Tanah di Sekitar Jurusan Kimia FMIPA Unesa  <i>(Bioremediation as an Effort to Handle Heavy Metal Pollution in Soil</i>	Penelitian Kebijakan FMIPA Unesa	2017

	<i>Arround Chemistry Department Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)</i>		
	Mini Laboratorium IPAL sebagai Prototipe pada Pengolahan limbah laboratorium Kimia sebagai Upaya pada Pelestarian Lingkungan  <i>(WWTP Mini Laboratory as a Prototype in Chemical Laboratory waste treatment as an Effort on Environmental Conservation)</i>	Penelitian Produk Terapan	2017
	Sistem Informasi Manajemen untuk Menunjang Organisasi Laboratorium Inkuiri di Jurusan Kimia FMIPA Unesa  <i>(Management Information System to Support the Organization of Inquiry Laboratories in the Department of Chemistry FMIPA Unesa)</i>	Penelitian Kebijakan FMIPA Unesa	2017
	Analisis Kandungan Logam Berat di Tanah Sekitar Gedung Jurusan Kimia FMIPA Unesa  <i>(Analysis of Heavy Metal Content in the Soil Arround Chemistry Department Building, Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)</i>	BOPTN	2016
	Pengembangan Buku Ajar Kimia Kosmetik Berbasis Hasil Penelitian sebagai Penunjang Mata Kuliah Kimia Kosmetik dalam rangka Penerapan Kurikulum KKNI  <i>(Development of Cosmetic Textbooks Based on Research Results as a Support for Cosmetic Subjects for Implementing the INQF Curriculum)</i>	BOPTN	2016
	<b>Title</b>	<b>Funder</b>	<b>Year</b>
<b>Community Service Over The Last 5 Years</b>	Pelatihan Keterampilan Argumentasi bagi Guru Kimia MGMP Sampang sebagai upaya Persiapan Keterampilan Abad 21	PNBP	2021
	Pembuatan Sabun Cuci Tangan Sebagai Salah Satu Pertahanan Terhadap Bencana Covid-19 Di Kabupaten Tuban	Kebijakan strategis UNESA	2020
	Sinergisitas penggiat kimia dan masyarakat kecamatan buduran sidoarjo dalam upaya pencegahan	PKM Swadaya	2020

	covid 19		
	Pelatihan instrument penilaian berbasis KPS untuk MGMP di kabupaten sumenep	Kebijakan Fakultas	2019
	Praktikum Berbasis Inkuiri Untuk Para Guru Kimia MGMP Kabupaten Kediri	Kebijakan Fakultas	2018
	Pelatihan Pembuatan Masker Buah Sebagai Alternatif Wirausaha Masyarakat	Kebijakan Fakultas	2017
	Ibm Produk Olahan Berbasis Cacing Tanah ( <i>Lumbricus rubellus</i> )	DPRM (IbM)	2016
<b>Industry Collaborations Over the Last 5 Years</b>	<b>Title</b>	<b>Partner</b>	<b>Year</b>
<b>Patents and Property Right</b>	<b>Title</b>	<b>Patent ID</b>	<b>Year</b>
	Lembar Kerja Peserta Didik Stoikiometri Kelas X Semester Genap	EC00202023900, 21 Juli 2020 / 000195265	2020
	Bahan Ajar Penanganan Limbah B3 Dan Non B3 Berbasis SETS	EC00202023903, 21 Juli 2020/ 000195267	2020
	Kimia Kosmetik (Buku) <i>Cosmetics (Book)</i>	C00201702751	2017
<b>Important Publications Over the Last 5 Years</b>	<ol style="list-style-type: none"> <li>1. <b>Rusmini</b>, Suyono, Jatmiko, B., and Yonata, B. (2021). The Diagnosis of Misconception on The Concept of Acid-Base Theory in Prospective Teacher Students Used a Three-Tier Test. <i>Journal of Physics: Conference Series 1899 (1)</i>, 012061</li> <li>2. Taufikurohmah, T., <b>Rusmini</b>, and Soepardjo, D. (2021). Application of nanogold and nanosilver to reduce rheumatic arthritis: Case study at leprosy patients. <i>Journal of Physics: Conference Series 1869 (1)</i>, 012018</li> <li>3. Putri, D.K., and <b>Rusmini</b>. (2021). Hydrocarbon and Petroleum with SETS Approach Module to Train Students' Critical Thinking Skills. <i>Indonesian Journal of Science and Mathematics Education 4 (1)</i>, 12-24</li> <li>4. Wulandari, C.A., and <b>Rusmini</b>. (2020). Pembelajaran ECIRR Dalam Mereduksi Miskonsepsi Pada Materi Stoikiometri Kelas X MA. 2020, <i>Orbital: Jurnal Pendidikan Kimia, Vol 4 No 1</i>, pp. 1-15.</li> <li>5. Jannah, R., and <b>Rusmini</b>. (2020). Penerapan Model Pembelajaran Kooperatif Tipe STAD Dengan Strategi Problem Posing Untuk Melatih Keterampilan Berpikir Kreatif Peserta Didik Pada Materi Reaksi Redoks. <i>Jurnal Inovasi Pendidikan Kimia, Vol 14, No 2</i>, hal. 2665 – 2676.</li> <li>6. Ridhayati, S.A., and <b>Rusmini</b>. (2020). Pemanfaatan Karbon Aktif Dari Limbah Kulit Durian Sebagai Adsorben Limbah Industri Tahu Di Daerah Sepanjang, Sidoarjo. <i>Jurnal Ilmiah Teknik Kimia, Vol. 4 No. 1 (Januari 2020)</i>. Pp. 23-31.</li> <li>7. Setyowati, W.I., and <b>Rusmini</b>. (2020). Implementation Of TPS Learning Models With Problem Posing To Train Creative Thinking On Acid-Base. <i>AoEJ : Academy of Education Journal, Vol. 11 No 2 Tahun 2020</i>. Pp. 87-103.</li> <li>8. N. Herdyastuti, <b>Rusmini</b>, and S. E. Cahyaningrum. 2019. Characteristic</li> </ol>		

- and Adsorption Capacity of Activated Carbon and Bentonite to Heavy Metal. *Eurasian Journal of Analytical Chemistry ISSN: 1306-3057 OPEN ACCESS 2019 14 (3): 48-54.*
9. Ruku, E.C., and **Rusmini**. (2019). Development of Student Work Sheet Based on Soft Skills on Colloid Materials Grade XI High School. *Journal of Chemistry Education Research , Volume 3 no 1.*
  10. Ashfia, F., and **Rusmini**. (2019). Formulasi Dan Uji Aktivitas Antibakteri Sediaan Foomsray Anti Bau Kaki Yang Mengandung Ekstak Kulit Jeruk Nipis Dan Ampas Kopi (Formulation and Antibacterial Activity Test for Anti-Odor Foomsray that Containing Extra Lime Skin and Coffee Pulp). *Indonesia Chemistry and Application Journal, Volume 3 no 1.*
  11. Azizah, U., Nasrudin, H., and **Rusmini**. (2019). Problem-Solving based Teaching Materials: an Important Role in Enhancing Undergraduate Students Thinking Skills. *Atlantis Highlights in Chemistry and Pharmaceutical Science. volume 1. ISSN: 2590-3195, ISBN: 978-94-6252-877-2.*
  12. Taufikurohmah, T., Soepardjo, D., Armadianto, H., and **Rusmini**. (2019). Synthesis and Characterization of Nanogold and Nanosilver as Leprosy Drug Candidates and Their Activity Tests in Leprosy Patients; Case Study. *Advances in Computer Science Research, volume 95, Mathematics, Informatics, Science, and Education International Conference (MISEIC 2019), pp.22-27.*
  13. Taufikurohmah, T., Soepardjo, D., **Rusmini**, and Armadianto, H. (2019). Synthesis and Characterization of Nanogold-Nanosilver Cluster Diameter Using UV-Visible Instruments and TEM Electron Microscope Transform Instruments. *Advances in Social Science, Education and Humanities Research, volume 390 International Conference on Research and Academic Community Services (ICRACOS 2019) pp. 146-151.*
  14. **Rusmini**, Taufikurohmah, T., and Sianita, M.M. (2019). Theoretical And Empirical Validity of Student WorkSheets To Train Eco Innovation In The Study of Food Analysis. *Atlantis Highlights in Chemistry and Pharmaceutical Sciences, volume 1 Seminar Nasional Kimia - National Seminar on Chemistry (SNK 2019), pp. 193-197.*
  15. Taufikurohmah, T., Soepardjo, D., and **Rusmini**. (2019). Utilization Of Nanogold And Nanosilver To Treat Herpes Disease: Case Study Of Herpes Transmission In Islamic Cottage Schools. *Atlantis Highlights in Chemistry and Pharmaceutical Sciences, volume 1 Seminar Nasional Kimia - National Seminar on Chemistry (SNK 2019), pp. 88-94.*
  16. Handayani, D.P., Fitriana, N., and **Rusmini**. (2018). Utilization Activated Carbon from Bagasse in Processed of Laundry Waste. *Advances in Engineering Research Vol. 171 , Atlantis Press.*
  17. **Rusmini**, Sukarmin and Muchlis. (2018). Bioremediation of Cadmium and Chroium Metal Polluted Soil Using Compost. *The International Conference on Science and Technology (ICST 2018), Atlantis Highlights in Engineering, ISBN 978-94-6252-650-1 ISSN 2589-4943.*
  18. **Rusmini**. (2018). Adsorption of Heavy Metals of Activities Disposal in Laboratory Using Active Carbon and Bentonite. *Proceeding of International Conference on Science and Technology (ICST), Bali, 18-19 October 2018*
  19. Mawan, A.R., and **Rusmini**. (2017). Pengembangan Lembar Kerja Siswa Berorientasi Inkuiri Terbimbing Untuk Melatih Keterampilan Proses Sains pada Materi Keseimbangan Kimia (Development of Guided Inquiry-Oriented Student Worksheets to Practice Science Process Skills

on Chemical Equilibrium Topic). *Unesa Journal of Chemical Education Vol. 6 No. 2 pp: 435-439.*

20. **Rusmini**, Muchlis and Sukarmin. (2017). Decrease of Heavy Metal Using Effective Microorganism 4 (EM4) as the Soil Bioremediation Effort. *Reseach Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8 No. 6.*
21. Gustrivia D.R., and **Rusmini**. (2017). Utilization of Filter Cake and Waste of Soybean Extract in Making Casting Fertilizer. *Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8 No. 5*
22. Yusida, F. and **Rusmini**. (2017). Utilization of Kereweng as a Coating for Slow Release Nitrogen Fertilizer. *Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8 No. 4.*
23. Machfud, M. and **Rusmini**. (2017). Pengaruh Waktu Interaksi Bentonit Teraktivasi Terhadap Daya Serap Iodium. *Indonesian Chemistry and Application Journal (ICAJ) Vol. 1 No.1, Januari 2017 ISSN: 2352-5401, ISBN:978-94-6252-591-7.*
24. **Rusmini**, Kusumawati, N., Anggarani, M.A., and Wikandari, P.R. (2016). Pelatihan Budidaya Cacing Tanah (*Lumbricus Rubellus*) bagi Para Tani Desa Sumberdukun, Ngariboyo, Magetan (Earthworm Cultivation (*Lumbricus Rubellus*) Training for Farmers in Sumberdukun Village, Ngariboyo, Magetan). *Jurnal Abdi Vol. 1 No. 2 pp: 114-120.*

Activities in Specialist Bodies Over the Last 5 Years	Role	Position	Period