



Rusmini, S.Pd., M.Si.

Position	Chemistry Education Lecturer			
	Lecturer in Chemistry Education			
Academic Career	Degree	University	Year	
	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	
Employment	Position	Employer	Period	
	Associate Professor	Universitas Negeri Surabaya – Indonesia		
Research and Development Projects Over The Last 5 Years	Title	Year	Partner/Funder	Amount of Financing
	Analisis Kandungan Logam Berat di Tanah Sekitar Gedung Jurusan Kimia FMIPA Unesa <i>(Analysis of Heavy Metal Content in the Soil Around Chemistry Department Building, Faculty of Mathematics and Natural Sciences</i>	2016	BOPTN	Rp. 10.000.000,00

	<i>Universitas Negeri Surabaya)</i>			
	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>)	2016	BOPTN	Rp. 10.000.000,00
	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 Around Chemistry Department Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya</i>)	2017	Penelitian Kebijakan FMIPA Unesa	Rp. 10.000.000,00
	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>)	2017	Penelitian Produk Terapan	Rp. 49.393.000,00
	Sistem Informasi Manajemen	2017	Penelitian	Rp. 10.000.000,00

	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>		Kebijakan FMIPA Unesa	
	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>	2018	Penelitian Strategis Nasional Institusi	Rp. 70.000.000,00
	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>	2018	Penelitian Dana PNBPFMIPA Unesa	Rp. 10.000.000,00
	Uji Kualitas Air Minum dalam Kemasan Produksi Unesa <i>(Quality Test of Packaged Drinking Water Produced by Universitas Negeri Surabaya)</i>	2018	Penelitian Dana PNBPFMIPA Unesa	Rp. 10.000.000,00
	Mini laboratorium IPAL sebagai prototipe pada pengolahan limbah	2019	Penelitian Terapan	Rp. 187.975.000,00

	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>		Lanjutan, Dana DRPM Mono Tahun	
	Pabrikasi Obat Nanogold-Nanosilver untuk Mendukung Pengembangan Bahan Baku Obat Dalam Negeri <i>(Nanogold-Nanosilver Drug Manufacturing to Support the Development of Domestic Medicines Raw Materials)</i>	2019	Penelitian Pengembangan, Dana DRPM Multi Tahun	Rp. 943.000.000,00
	Pemanfaatan Material Ramah Lingkungan Berbasis Kitosan-TiO ₂ Untuk Aplikasi Anti UV dan Self Cleaning Tekstil <i>(Utilization of Environmentally Friendly Materials Chitosan-TiO₂-Based for Anti UV and Self Cleaning Textile Applications)</i>	2019	Penelitian Terapan R&D (Saintek), Dana PNBPN Melalui LPPM	Rp. 50.000.000,00
	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>	2019	PNBP Melalui FMIPA	Rp. 10.000.000,00

	<i>I Material Based on Problem Solving Based on Blended Learning)</i>			
	Pabrikasi obat nanogold nanosilver untuk mendukung pengembangan bahan baku obat dalam negeri (anggota tahun kedua)	2020	Penelitian pengembangan	Rp. 1.015.690.000
Community Service Over The Last 5 Years	Title	Year	Partner/Funder	Amount of Financing (million)
	Ibm Produk Olahan Berbasis Cacing Tanah (<i>Lumbricus rubellus</i>)	2016	DPRM (IbM)	42,5
	Pelatihan Pembuatan Masker Buah Sebagai Alternatif Wirausaha Masyarakat	2017	Kebijakan Fakultas	7,5
	Praktikum Berbasis Inkuiri Untuk Para Guru Kimia MGMP Kabupaten Kediri	2018	Kebijakan Fakultas	7,5
	Pelatihan instrument penilaian berbasis KPS untuk MGMP di kabupaten sumenep	2019	Kebijakan Fakultas	7,5
	Pembuatan Sabun Cuci Tangan Sebagai Salah Satu Pertahanan Terhadap Bencana Covid-19 Di Kabupaten Tuban (anggota)	2020	Kebijakan strategis UNESA	40
	Sinergisitas penggiat kimia dan	2020	PKM Swadaya	7,5

	masyarakat kecamatan buduran sidoarjo dalam upaya pencegahan covid 19			
Industry Collaborations Over The Last 5 Years				
Patents and Proprietary Rights	Title	Patent ID	Year	
	Kimia Kosmetik (Buku) <i>Cosmetics (Book)</i>	C00201702751	2017	
	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	
Important Publication Over The Last 5 Years	<ol style="list-style-type: none"> 1. Rusmini, N. Kusumawati, M. A. Prahara and P. R. Wikandari. 2016. Pelatihan Budidaya Cacing Tanah (<i>Lumbricus Rubellus</i>) bagi Para Tani Desa Sumberdukun, Ngariboyo, Magetan (<i>Earthworm Cultivation (Lumbricus Rubellus) Training for Farmers in Sumberdukun Village, Ngariboyo, Magetan</i>). <i>Jurnal Abdi Vol. 1 No. 2 pp: 114-120</i>. 2. A. R. Mawan and Rusmini. 2017. Pengembangan Lembar Kerja Siswa Berorientasi Inkuiri Terbimbing Untuk Melatih Keterampilan Proses Sains pada Materi Kesetimbangan Kimia (<i>Development of Guided Inquiry-Oriented Student Worksheets to Practice Science Process Skills on Chemical Equilibrium Topic</i>). <i>Unesa Journal of Chemical Education Vol. 6 No. 2 pp: 435-439</i>. 3. Rusmini, Muchlis and Sukarmin. 2017. Decrease of Heavy Metal Using Effective Microorganism 4 (EM4) as the Soil Bioremediation Effort. <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8 No. 6</i>. 4. D. R. Gustrivia and Rusmini. 2017. Utilization of Filter Cake and Waste of Soybean Extract in Making Casting Fertilizer. <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8</i> 			

No. 5

5. F. Yusida 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*.
6. M. Machfud 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*.
7. D. P. Handayani, N. Fitriana and **Rusmini**. 2018. Utilization Activated Carbon from Bagasse in Processed of Laundry Waste. *Advances in Engineering Research Vol. 171 , Atlantis Press*.
8. **Rusmini**, Sukarmin and Muchlis. 2018. Bioremediation of Cadmium and Chromium 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*.
9. **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*
10. N. Herdyastuti, **Rusmini** and S. E. Cahyaningrum. 2019. Characteristic 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*.
11. E. C. Ruku 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*.
12. F. Ashfia and **Rusmini**. 2019. Formulasi Dan Uji Aktivitas Antibakteri Sediaan Fotspray Anti Bau Kaki Yang Mengandung Ekstak Kulit Jeruk Nipis Dan Ampas Kopi (Formulation and Antibacterial Activity Test for Anti-Odor Fotspray that Containing Extra Lime Skin and Coffee Pulp). *Indonesia Chemistry and Application Journal, Volume 3 no 1*.
13. U. Azizah, H. Nasrudin 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*.
14. T. Taufikurohmah, D. Soepardjo, H. Armadianto, 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*.
15. T. Taufikurohmah, D. Soepardjo, **Rusmini**, and H. Armadianto. 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.*
16. **Rusmini**, T. Taufikurohmah, M. M. Sianita. 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.*
 17. T. Taufikurohmah, D. Soepardjo, **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.*
 18. Pembelajaran ECIRR Dalam Mereduksi Miskonsepsi Pada Materi Stoikiometri Kelas X Sma. 2020, *Orbital: Jurnal Pendidikan Kimia, Vol 4 No 1 (2020), pp. 1-15.*
 19. Penerapan Model Pembelajaran Kooperatif Tipe STAD Dengan Strategi Problem Posing Untuk Melatih Keterampilan Berpikir Kreatif Peserta Didik Pada Materi Reaksi Redoks. 2020, *Jurnal Inovasi Pendidikan Kimia, Vol 14, No 2, hal. 2665 – 2676.*
 20. Pemanfaatan Karbon Aktif Dari Limbah Kulit Durian Sebagai Adsorben Limbah Industri Tahu Di Daerah Sepanjang, Sidoarjo. 2020, *Jurnal Ilmiah Teknik Kimia, Vol. 4 No. 1 (Januari 2020). Pp. 23-31.*
 21. Implementation Of TPS Learning Models With Problem Posing To Train Creative Thinking On Acid-Base. 2020, *AoEJ : Academy of Education Journal, Vol. 11 No 2 Tahun 2020. Pp. 87-103.*

Activities in Special Institution	Organization Role	Position	Period