Rusmini, S.Pd., M.Si.

Position	**Chemistry Education Lecturer**			
	Lecturer on Chemistry Education			
Academic Career	**Degree**	**University**		**Year**
	Bachelor Degree (Chemistry Education)	IKIP Surabaya		1997-2002
	Master Degree (Analytical Chemistry)	Universitas Gadjah Mada		2003-2005
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 *(Analysis of Heavy Metal Content in the Soil Arround Chemistry Department Building, Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)*	2016	BOPTN	Rp. 10.000.000,00
	Pengembangan Buku Ajar Kimia	2016	BOPTN	Rp. 10.000.000,00

	Kosmetik Berbasis Hasil Penelitian sebagai Penunjang Mata Kuliah Kimia Kosmetik dalam rangka Penerapan Kurikulum KKNI *(Development of Cosmetic Textbooks Based on Research Results as a Support for Cosmetic Subjects for Implementing the INQF Curriculum)*			
	Bioremidiasi Sebagai Upaya Penangan Pencemaran Logam Berat Pada Tanah di Sekitar Jurusan Kimia FMIPA Unesa *(Bioremediation as an Effort to Handle Heavy Metal Pollution in Soil Arround Chemistry Department Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)*	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 *(WWTP Mini Laboratory as a Prototype in Chemical Laboratory waste treatment as an Effort on Environmental Conservation)*	2017	Penelitian Produk Terapan	Rp. 49.393.000,00
	Sistem Informasi Manajemen untuk Menunjang Organisasi Laboratorium lnkuiri di Jurusan	2017	Penelitian Kebijakan FMIPA Unesa	Rp. 10.000.000,00

	Kimia FMIPA Unesa *(Management Information System to Support the Organization of Inquiry Laboratories in the Department of Chemistry FMIPA Unesa)*			
	Mini Laboratorium IPAL sebagai Prototipe pada Pengolahan limbah laboratorium Kimia sebagai Upaya pada Pelestarian Lingkungan *(WWTP Mini Laboratory as a Prototype in Chemical Laboratory waste treatment as an Effort on Environmental Conservation)*	2018	Penelitian Strategis Nasional Institusi	Rp. 70.000.000,00
	Pengembangan Perangkat Pembelajaran Berbasis Proyek untuk Melatihkan Eco lnnovation pada Mata Kuliah Analisis Pangan *(Development of Project-Based Learning Tools for Practicing Eco innovation in Food Analysis Course)*	2018	Penelitian Dana PNBP FMIPA Unesa	Rp. 10.000.000,00
	Uji Kualitas Air Minum dalam Kemasan Produksi Unesa *(Quality Test of Packaged Drinking Water Produced by Universitas Negeri Surabaya)*	2018	Penelitian Dana PNBP FMIPA Unesa	Rp. 10.000.000,00
	Mini laboratorium IPAL sebagai prototipe pada pengolahan limbah laboratorium kimia sebagai upaya pada pelestarian lingkungan	2019	Penelitian Terapan Lanjutan, Dana DRPM Mono Tahun	Rp. 187.975.000,00

	(WWTP Mini laboratory as a Prototype in Chemical Laboratory Waste Treatment as an Effort to Preserve the Environment)			
	Pabrikasi Obat Nanogold-Nanosilver untuk Mendukung Pengembangan Bahan Baku Obat Dalam Negeri *(Nanogold-Nanosilver Drug Manufacturing to Support the Development of Domestic Medicines Raw Materials)*	2019	Penelitian Pengembangan, Dana DRPM Multi Tahun	Rp. 943.000.000,00
	Pemanfaatan Material Ramah Lingkungan Berbasis Kitosan-TiO2 Untuk Aplikasi Anti UV dan Self Cleaning Tekstil *(Utilization of Environmentally Friendly Materials Chitosan-TiO2-Based for Anti UV and Self Cleaning Textile Applications)*	2019	Penelitian Terapan R&D (Saintek), Dana PNBP 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 *(Efforts to Improve Students' Thinking Skills Through the Implementation of Basic Chemistry I Material Based on Problem Solving Based on Blended Learning)*	2019	PNBP Melalui FMIPA	Rp. 10.000.000,00

Industry Collaborations Over The Last 5 Years			
Patents and Proprietary Rights	**Title**	**Patent ID**	**Year**
	Kimia Kosmetik (Buku) *Cosmetics (Book)*	C00201702751	2017
Important Publication Over The Last 5 Years	1. **Rusmini**, N. Kusumawati, M. A. Prahara and P. R. Wikandari. 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.* 2. A. R. Mawan and **Rusmini.** 2017. Pengembangan Lembar Kerja Siswa Berorientasi Inkuiri Terbimbing Untuk Melatih Keterampilan Proses Sains pada Materi Kesetimbangan 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.* 3. **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*. 4. D. R. Gustrivia 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* 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 Aplication 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. Bioremidiation 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.

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 Footspray Anti Bau Kaki Yang Mengandung Ekstak Kulit Jeruk Nipis Dan Ampas Kopi (Formulation and Antibacterial Activity Test for Anti-Odor Footspray 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.		
Activities in Special Institution	**Organization Role**	**Position**	**Period**