



**MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION**  
**UNIVERSITAS NEGERI YOGYAKARTA**

Jalan Kolombo No. 1, Yogyakarta 55281 Telp. (0274) 586168 Hunting, Fax. (0274) 565500  
Rector Telp./Fax.: (0274) 512192; Vice Rector I Telp./Fax.: (0274) 561634; Vice  
Rector II Telp./Fax. : (0274) 512851; Vice Rector III Telp./Fax. : (0274) 548205;  
Vice Rector IV Telp./Fax. : (0274) 555782; Homepage : <http://www.uny.ac.id>  
E-mail : [humas@uny.ac.id](mailto:humas@uny.ac.id)

**STAFF HANDBOOK**

**A. Personal Identity**

1.	Full Name	Dr. Eli Rohaeti
2.	Functional Position	Lektor Kepala
3.	NIP	196912291999032001
4.	Place and Date of Birth	Garut, 29 Desember 1969
5.	Phone	-
6.	Office Address	Jurdik Kimia FMIPA UNY Karangmalang Yogyakarta 55281
7.	Telephone/ Fax	(0274)548203
8.	E-mail	<a href="mailto:eli_rohaeti@uny.ac.id">eli_rohaeti@uny.ac.id</a>
9.	Specific expertise	Kimia Fisika Polimer
10.	Subjects taught	Kimia Polimer
		Dinamika Molekul
		Kimia Makromolekul
		Model dan Pemodelan dalam Pembelajaran Kimia
		Masalah dan Pemecahannya dalam Pembelajaran Kimia

**B. Educational Background**

Program	S1	S2	S3
1. Institution Name	IKIP Bandung	ITB	ITB
2. Field	Pendidikan Kimia	Kimia Fisika Polimer	MIPA/Kimia Fisika Polimer
3. Year of Entry	1988	1994	1999
4. Graduation Year	1993	1996	2005
5. Title of Undergraduate Thesis/ Master Thesis/ and Dissertation	Pengaruh pemberian umpan balik terhadap hasil belajar kimia	Pengaktipan permukaan polietilen dengan larutan asam kromat	Pemanfaatan amilosa dari pati tapioca pada sintesis poliuretan yang dapat dibiodegradasi
6. Promotor	Dra. Nuraini Sy	Prof. Dr. N. M. Surdia	Prof. Dr. N. M. Surdia

### C. Training Experiences

No	Training Field	Organizer	Year	Certificate
1	Pelatihan General FTIR and Uv-Vis Spectroscopy: Theory and Practice	Sentra Teknologi Polimer-BPPT	2015	-
2	Pelatihan Intensive 75-hour English Course	UNY	2015	-
3	Pelatihan Bahasa Inggris selama 24 jam	Come	2014	-

### D. Research Experiences

No	Year	Research Title	Funding	
			Source	Amount (Million Rp)
1	2018	Pengembangan Produk Tekstil Berbasis Kulit Binatang dan Kulit Sintetik melalui Modifikasi dengan Nanopartikel Perak Ramah Lingkungan	PSNI - 2018	120
2	2016 - 2017	Modifikasi self Cleaning Textile sebagai Bahan Antibakteri melalui Deposit Nanopartikel yang Dipreparasi secara <i>Green Chemistry</i> (Eli Rohaeti dan Anna Rakhmawati)	Fundamental-DIKTI	125
3	2013 - 2014	Pengembangan Material Penutup Luka Berbasis Komposit selulosa Bakteri-Kitosan terdepositasi Nanopartikel Perak serta Uji Antibakteri dan Uji Biokompatibilitasnya (Eli Rohaeti, Endang WLFX, dan Anna Rakhmawati)	SINas-RISTEK	360
4	2012	Pengembangan Biomaterial Selulosa Bakteri dari Limbah Rumah Tangga dengan penambahan Kitosan dan Pemplastis sebagai Material penutup Luka (Eli Rohaeti dan Tutiek Rahayu)	Hibah Bersaing-Ditlitabmas	40
5	2012-2013	Matriks Matlac dari Sekresi Kutu Lak untuk Membuat Biokomposit dengan <i>Reinforcement</i> Serat Rami (Eli Rohaeti, Mujiyono, dan Rochmadi)	Hibah Stranas-DP2M	170

### E. Community Service Experiences

No	Year	Community Service Title	Funding	
			Source	Amount (Million Rp)
1	2014	Perencanaan Praktikum Kimia	FMIPA	5

2	2014	Beberapa Instrumen Penelitian Kimia Polimer	FMIPA	5
3	2015	Penerapan Model Pembelajaran <i>Environmental Problem Solving</i>	FMIPA	5
4	2015	Penentuan tetapan ionisasi asam lemah	FMIPA	5
5	2015	Perencanaan Praktikum Kimia SMA/MA	FMIPA	5
6	2015	Berbagai jenis briket bahan bakar	DIKTI	10
7	2016	Instrumen Pengukuran: Performa, Kreativitas, dan Portofolio	FMIPA	5
8	2016	Pembuatan Briket Sekam Padi	DIKTI	10
9	2016	Perencanaan dan Penulisan Artikel Kajian dan Artikel Hasil Penelitian	FMIPA	5
10	2017	Pembuatan Minyak Atsiri dari Limbah Kulit Jeruk	FMIPA	5
11	2017	Pembuatan Sabun Mandi Aroma Terapi	FMIPA	5
12	2018	Pengenalan Kimia Polimer dan Tekstil	DIKTI	10

**F. International Seminar/ Workshop/ Convention Experiences**

No	International Seminar/ Workshop/ Convention	Year	Position (Participant/ Presenter/ Keynote Speaker)
1	International Conference on Research, Implementation and Education of Mathematics and Sciences (ICRIEMS 2014)	2014	Presenter
2	International Conference on Research, Implementation and Education of Mathematics and Sciences (ICRIEMS 2014)	2014	Presenter
3	The 4 <sup>th</sup> International Conference Indonesian Chemical Society	2015	Presenter
4	The 3rd International Conference on Research, Implementation and Education of Mathematics and Sciences (ICRIEMS 2016)	2016	Presenter
5	The 4 <sup>th</sup> International Conference on Research, Implementation and Education of Mathematics and Sciences	2017	Presenter

**G. Local and National Seminar/Workshop/ Convention Experiences**

No	Local and National Seminar/Workshop/Convention	Year	Position (Participant/ Presenter/ Keynote Speaker)
1	Seminar Nasional Kimia	2014	Presenter

2	Seminar Nasional Himpunan Kimia Indonesia 2014	2014	Presenter
3	Seminar Ilmiah Nasional INSINAS 2014	2014	Presenter
4	Workshop Peningkatan Mutu Dosen dalam Penyusunan Proposal Penelitian PT	2015	Presenter
5	Workshop Penyusunan Proposal Penelitian Kebijakan	2015	Presenter
6	Seminar Nasional Kulit, Karet, dan Plastik ke 4	2015	Presenter
7	Seminar Nasional Kimia	2015	Presenter
8	Seminar Nasional Kimia	2016	Presenter
9	Seminar Nasional Kimia	2017	Presenter
10	Workshop Peningkatan Kualitas Output Penelitian Skema PSN, P3S, PUSN, PTUPT, dan PPUPT program Riset Terapan Tahun 2018	2018	Presenter
11	Workshop Penyusunan Dokumen Mutu Laboratorium	2018	Presenter

#### H. Publication on International Journal

No	Title	Year	Journal Name and Edition
1	Using Inquiry-Based Laboratory Instruction to Improve Critical Thinking and Scientific Process Skill among Preservice Elementary Teachers	2019	Eurasian Journal of Education Research, 80 151-170
2	UNDERGRADUATE STUDENTS' SCIENCE PROCESS SKILLS IN TERMS OF SOME VARIABLES: A PERSPECTIVE FROM INDONESIA	2018	<i>Journal of Baltic Science Education, 17(5),</i>
3	Promoting Critical Thinking and Problem Solving Skills of Preservice Elementary Teachers through Process-Oriented Guided-Inquiry Learning (POGIL)	2018	<i>International Journal of Instruction, 11(4)</i>
4	The investigation of university students' science process skills and chemistry attitudes at the laboratory course	2018	Asia-Pacific Forum on Science Learning and Teaching, 19(2)
5	Application of silver nanoparticles synthesized by using <i>Ipomoea batatas L.</i> waste to improve antibacterial properties and hydrophobicity of polyester cloths	2018	<i>Chiang Mai Journal of Science, 45(7)</i>
6	Mechanical Properties and Antibacterial Activity of Cellulose Composite Based Coconut Water with Addition Glycerol, Chitosan, and Silver Nanoparticle	2018	<i>Oriental Journal of Chemistry, 34(3), 1341-1349</i>
7	Application of <i>Terminalia catappa</i> in preparation of silver nanoparticles to develop antibacterial nylon	2018	<i>Oriental Journal of Chemistry. 34(3), 1341-</i>

No	Title	Year	Journal Name and Edition
			1349
8	Antibacterial activity and the hydrophobicity of silver nanoparticles loaded fabrics of nylon	2017	<i>ARPN Journal of Engineering and Applied Sciences</i> , 12(21), 5947-5954
9	Characterization and the activity of bacterial cellulose prepared from rice waste water by addition with glycerol and chitosan	2017	<i>ARPN Journal of Agricultural and Biological Sciences</i> , 12(8), 241-248
10	Bacterial cellulose from rice waste water and its composite which are deposited nanoparticle as an antimicrobial material	2016	<i>Alchemy</i> , 2(1), 70-87
11	Modification of Insect Secretion on Kesambi Tree by using Anhydride Phthalic as Biobased Material Alternative for Matrix of Composite (Eli Rohaeti, Mujiyono, Rochmadi)	2013	<i>Journal of Metallurgical &amp; Materials Science and Engineering (IJMMSE)</i> , 3(2), 2278-2516

#### I. Publication on National Journals

No	Title	Year	Journal Name and Edition
1	The hydrophobicity and the antibacterial activity of polyester modified with silver nanoparticle and hexadecyltrimethoxysilane	2017	<i>Jurnal Molekul</i> , 12(1), 78-87. Doi: 10.20884/1.jm.2017.12.1.295
2	Aktivitas Antibakteri Kain Poliester dengan Penambahan Heksadesiltrimetoksisilan (HDTMS) terhadap <i>Staphylococcus aureus</i> ATCC 25924	2017	<i>Jurnal Kimia Valensi</i> , 3(2), 95-100. <a href="http://journal.uinjkt.ac.id/index.php/valensi">http://journal.uinjkt.ac.id/index.php/valensi</a>
3	Selulosa bakteri dari Limbah air Cucian Beras dengan Penambahan Kitosan, Gliserol, dan Nanopartikel Perak	2016	<i>Jurnal Molekul</i> , 11(1), 19-24.
4	Kemudahan Biodegradasi Selulosa Bakteri dari Limbah Cucian Beras dengan Penambahan Gliserol, Kitosan, dan Nanopartikel Perak (eli Rohaeti, ending WLFX, dan Anna Rakhmawati)	2016	<i>Jurnal Kimia Valensi</i> , 2(1), 35-44
5	Modifikasi Sekresi Kutu Lak dengan Penambahan Lateks Hasil Hidrasi sebagai Matrik pada Pe	2015	<i>Majalah Kulit, Karet, dan Plastik</i> , 31(1), 23-36

	mbuatanBiokomposit		
6	Seleksi Bakteri Termofilik Selulolitik Pasca Erupsi Merapi (Anna Rakhmawati, Evy Yulianti, Eli Rohaeti)	2014	<i>Jurnal Kaunia, X(2),</i>
7	Sifat mekanik Selulosa Bakteri dari Air kelapa dengan Penambahan Kitosan (Tutiek Rahayu dan Eli Rohaeti)	2014	<i>Jurnal Saintek, 19(2),</i>
8	Sintesis Busa Poliuretan dari Minyak Jarak sebagai Bahan Isolator Panas (Eli Rohaeti dan Suyanta)	2011	<i>Jurnal Saintek, 16(1),</i>
9	Bioplastik <i>nata de cassava</i> sebagai bahan <i>edible</i> film ramah lingkungan (Heru Pratomo Al. dan Eli Rohaeti)	2011	<i>Jurnal Saintek, 16(2),</i>

#### J. Book Writing Experience

No	Year	Title	Number of pages	Publisher
1	2018	Pembelajaran dan Pengelolaan Laboratorium Kimia	200	UNY Press
2	2018	Kimia Polimer	200	UNY Press
3	2015	Sintesis Poliuretan	150	UNY Press

#### K. Structural Position Experience

No	Position	Year	Description
1	Sekretaris Jurusan Pendidikan Kimia	2011 - 2015	
2	Tim Pengembang S2 Pendidikan Kimia	2016 - sekarang	
3	Anggota Penjaminan Mutu Pascasarjana	2019	

#### L. Professional Experience

No	Position	Year	Description
1	Reviewer Jurnal	2015 - now	JIPA
2	Reviewer Jurnal	2018 - now	JIPVA
3	Reviewer Jurnal International	2019	New Joournal of Chemistry (Scopus Q2)

### M. Professional Organizational Membership

No	Professional Organizational Name	Year	Position
1	Himpunan Kimia Indonesia	2011 - now	member
2	Himpunan Polimer Indonesia	2013 - now	member

### N. Patents and Proprietary Rights

No	Year	Title/ Theme	Criteria	Status
1	2013	Busa Poliuretan Ramah Lingkungan Berbasis Minyak Jarak	Paten Granted	P 00201304586
2	2013	Pembuatan Komposit Selulosa Gliserol Kitosan dan Penggunaannya sebagai <i>Wound Dressing</i>	Paten Granted	P 00201304739
3	2014	Pembuatan Selulosa Bakteri dari Limbah Air Cucian Beras Terdeposisi Nanopartikel Perak dan Aktivitas Antibakterinya	Paten Granted	P 00201402633
4	2014	Pembuatan Biokomposit dari Matriks Hasil Modifikasi Lateks Terhidrasi	Paten	P00201405917
5	2014	Metode pembuatan Matriks dari Sekresi Kutu lak sebagai Bahan Dasar Biokomposit	Paten	P00201405918
6	2015	Aktivitas Antibakteri Komposit Selulosa Bakteri dari Air Kelapa-Gliserol Dideposit Nanopartikel Perak	Paten	P00201508084
7	2016	Metode Pembuatan Kain Poliester Antikotor dan Antibakteri	Paten	P00201609139
8	2016	Metode pembuatan selulosa Antibakteri dari Limbah Cair Ubi Jalar	Paten	P00201608476
9	2018	Metode Pembuatan Kulit Domba Suede Antibakteri	Paten Sederhana	S00201802799
10	2019	Metode Pembuatan Nanopartikel Perak Menggunakan <i>Fusarium oxysporum</i> BNT-02 dan Aplikasinya pada Bahan Tekstil	Paten Sederhana	S00201904816

Thus this biodata made in truth to use properly.

Yogyakarta, February 28<sup>th</sup>, 2019

Dr. Eli Rohaeti, M.Si.  
NIP 196912291999032001