



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

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STAFF HANDBOOK

A. Personal Identity

1.	Full Name	Dr Cahyorini Kusumawardani, M.Si
2.	Functional Position	Lektor
3.	NIP	197707232003122001
4.	Place and Date of Birth	Bojonegoro, 23 Juli 1977
5.	Home Address	Pogung Lor No D1, Sinduasi, Mlati, Sleman, Yogyakarta
6.	Telephone/ Fax	-
7.	Phone	-
8.	Office Address	Jurdik Kimia FMIPA UNY Karangmalang Yogyakarta 55281
9.	Telephone/ Fax	(0274)548203
10.	E-mail	cahyorini.k@uny.ac.id
11.	Specific expertise	Inorganic Material Chemistry
12.	Subjects taught	a. Kimia Anorganik Non Logam
		b. Kimia Koordinasi dan Organologam
		c. Simetri Kimia
		d. Praktikum Kimia Anorganik Non Logam
		e. Praktikum Kimia Anorganik Logam
		f. Praktikum Kimia Koordinasi
		g. Kimia Anorganik Logam
		h. Kimia Komputasi
		i. Topik-topik Penelitian Terpilih
		j. Kimia Dasar
		k. English for Chemistry

B. Educational Background

Program	S1	S2	S3
1. Institution Name	UGM	UGM	UGM
2. Major	Kimia	Kimia	Kimia Anorganik
3. Year of Entry	1995	2000	2007
4. Graduation Year	1999	2002	2012

5. Title of Undergraduate Thesis/ Master Thesis/ and Dissertation	Studi Pengaruh Rasio Si/Al terhadap Porositas Zeolit A Menggunakan Metode Mekanika Molekuler	Simulasi Monte Carlo terhadap solvasi ion Co^{2+} dalam Air, Amoniak Cair dan Campuran Air-amoniak	TiO_2 terdoping Nitrogen: Studi, Karakterisasi dan Fotoaplikasinya
6. Promotor	<ul style="list-style-type: none"> Prof AH Bambang Setiaji 	<ul style="list-style-type: none"> Prof Harno Dwi Pranowo Prof Bambang Setiaji 	<ul style="list-style-type: none"> Prof Narsito Dr Indriana Kartini

C. Training Experiences

No	Training Field	Organizer	Year	Certificate
1	Regional Workshop on Water and Energy	EXCEED, DAAD, Germany	2013	
2	Research for Academics Journal, Mahidol University	Mahidol University	2017	

D. Research Experiences

No	Year	Research Title	Funding	
			Source	Amount (Million Rp)
1	2014	Development of Solid State Dye-Sensitized Solar Cells Based on Nitrogen Doped Titania	Hibah Kerjasama International dan Publikasi	187
2	2015	Development of Solid State Dye-Sensitized Solar Cells Based on Nitrogen Doped Titania	Hibah Kerjasama International dan Publikasi	126
3	2016	Development of Solid State Dye-Sensitized Solar Cells Based on Nitrogen Doped Titania	Hibah Kerjasama International dan Publikasi	161
4	2017	Pengembangan Material Nanokomposit $TiO_2/CH_3NH_3PbX_3$ (X=Cl, Br, dan I)dengan Metode Ostwald Ripening untuk Aplikasi Sel Surya Perovskite	Insinas Pratama Individu	115
5	2018	Pengembangan Material Nanokomposit $TiO_2/CH_3NH_3PbX_3$ (X=Cl, Br, dan I)dengan Metode Ostwald Ripening untuk Aplikasi Sel Surya Perovskite	Insinas Pratama Individu	122
6	2019	Sintesis Material Grafin dari Mahkota Buah Nanas untuk Aplikasi Superkapasitor	RG	24

E. Community Service Experiences

No	Year	Community Service Title	Funding	
			Source	Amount (Million Rp)
1	2014	Pelatihan Pembuatan Mie Sehat	-	5
2	2015	Pelatihan Teknologi Diversifikasi Produk Olahan Pepaya pada Masyarakat Desa Tirtosari, Kretek, Bantul	-	5
3	2016	Pelatihan Pengembangan Pembelajaran Kimia Terintegrasi Konteks Kejuruan untuk Meningkatkan Profesionalisme Guru Kimia SMK di Sleman	-	15
4	2017	Pelatihan produksi kain shibori dengan pewarna alami	-	5

F. International Seminar/ Workshop/ Convention Experiences

No	International Seminar/ Workshop/ Convention	Year	Position (Participant/ Presenter/ Keynote Speaker)
1	ICRIEMS	2014	Presenter
2	ICRIEMS	2015	Presenter
3	ANNIC 1 st , Paris, Perancis	2015	Presenter
4	ICRIEMS	2016	Presenter
5	ANNIC 2 nd , Barcelona, Spanyol	2016	Presenter
6	ANNIC 4 th , Berlin, Jerman	2018	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 (ISBN. 978-979-562-029-7)	2014	Presenter
2	Seminar Nasional (ISBN. 978-602-14548-1-7)	2014	Presenter

H. Publication on International Journals

No	Title	Year	Journal Name and Edition
1	Effectiveness of using virtual chemistry laboratory integrated hybrid learning to students' learning achievement	2019	IOP Conf. Series: Journal of Physics: Conf. Series 1156 (2019) 012031 IOP Publishing doi:10.1088/1742-6596/1156/1/012031
2	A need analysis in developing virtual laboratory according to the chemistry teachers	2019	IOP Conf. Series: Journal of Physics: Conf. Series 1156 (2019) 012020 IOP Publishing doi:10.1088/1742-6596/1156/1/012020

No	Title	Year	Journal Name and Edition
3	Virtual chemistry laboratory (virtual chem-lab): potential experimental media in hybrid learning	2019	IOP Conf. Series: Journal of Physics: Conf. Series 1156 (2019) 012028 IOP Publishing doi:10.1088/1742-6596/1156/1/012028
4	Effect of virtual chemistry laboratory toward cognitive learning achievement	2019	IOP Conf. Series: Journal of Physics: Conf. Series 1156 (2019) 012034 IOP Publishing doi:10.1088/1742-6596/1156/1/012034
5	Learning Outcome of Students on Chemondro Media (Chemistry on Android) with Flipped Classroom Model on Electrolyte Solution	2018	<i>Advances in Social Science, Education and Humanities Research</i>
6	Effects of Using Media of Chemondro and Video Conference on Teaching Learning towards Students' Self-Efficacy and Students' Self-Regulated Learning on the Subject of Hydrocarbon	2018	<i>EDUCATUM JSMT Vol. 5 No. 1 (1-8)</i> https://ejournal.upsi.edu.my/journal/EDSC
7	Influence of Virtual Chemistry Laboratory Utilization (V-Lab) toward Self-Regulated Learning	2018	Journal of Physics: Conference Series, 2018, 1097, 1, 012067
8	Developing ChemonDro Application on Redox Concepts to Improve Self-Regulated Learning of Students	2018	Journal of Physics: Conference Series, 2018, 1097, 1, 012055
9	The profile of students' self-efficacy using virtual chem lab in hybrid learning	2018	Journal of Physics: Conference Series, 2018, 1097, 1, 012060
10	Fostering of students' self-regulated learning and achievement: a study on hydrocarbon hybrid-learning and android-based-game	2018	Journal of Physics: Conference Series, 2018, 1097, 1, 012064
11	Phosphate and nitrate sorption by amine-modified silica as the study of slow release fertilizer	2018	Journal of Physics: Conference Series, 2018, 1097, 1, 012048
12	Adsorption kinetic and equilibrium of Ca(II) and Mg(II) onto sulfonate-modified silica from sugarcane bagasse	2017	Drug Invention Today, 9(3), 111-120. http://jprsolutions.info/files/final-file-5ab07cda70f772.66926794.pdf (Scopus-indexed Journal)

No	Title	Year	Journal Name and Edition
13	The Modification of Silica Surface Separated from Overflowing Mud in Lapindo Indonesia as Cation Exchange Adsorbent	2017	Yala Rajabath University (YRU) Journal of Science and Technology, 2(2), 1-17. http://journal.yru.ac.th/index.php/sci/article/view/53/36
14	The Development of Monograph with 3-Dimensional Illustrations Titled "Augmented Chemistry: Hydrocarbon" as Learning Enrichment Materials	2017	Journal of Physics: Conference Series, 812(1). doi:10.1088/1742-6596/812/1/012088

I. Publication on National Journals

No	Title	Journal Name and Edition	Year
1	Monte Carlo Simulation of Co^{2+} in Aqueous Ammonia Solution Including Three-Body Correction Term	Proceedings of International Conference On Chemical Sciences (ICCS-2007), 24-25 Mei 2007	2007
2	Dye-sensitized solar cells based on in situ sensitized of nitrogen-doped TiO_2	Proceedings of Saudi International Electronics, Communications and Photonics Conference, 24-26 April 2011	2011
3	Synthesis and Characterization of Visible Light Active Nitrogen-Doped TiO_2 Photocatalyst	Asian Journal of Chemistry (terindeks Scopus), Vol 24, No 1, Hal 255-260	2012
4	Synthesis of Mg/Al Hydrotalcite By Using Low Supersaturated Precipitation Method with Variation of Mole Ratio	Jurnal Eksakta, Vol 14 No 2	2014
5	Pengaruh Temperatur Kalsinasi terhadap Hidrotalsit Mg/Al yang Disintesis Melalui Metode Presipitasi Tak Jenuh	Jurnal Penelitian Saintek, Vol 19 No 2, Oktober 2014	2014
6	The Aging Time Effect on The N-Doped TiO_2 Crystal Structure for Dye-sensitized Solar Cells	Proceedings of International Conference On Research, Implementation and Education of Mathematics and Sciences (ICRIEMS) 2015, 17-19 Mei 2015	2015
7	Preparation and Characterization of Cobalt Oxide Supported Tin Oxide ($\text{CoO}_x@\text{SnO}_2$)	Proceedings of International Conference On Research, Implementation and Education of Mathematics and Sciences (ICRIEMS) 2016, 16-17 Mei 2016	2016
8	Structural Analysis of Powder Complex of $[\text{Mn}(\text{phen})_3](\text{CF}_3\text{SO}_3)_2 \cdot 6.5 \text{H}_2\text{O}$	the International Conference on Education,	2016

		Mathematics and Science 2016 (ICEMS2016)	
9	Synthesis and Characterization of $\text{Ca}_x\text{Co}_{1-x}\text{TiO}_3$ and its Photocatalytic Activity on Methylene Blue Photodegradation	Asian Journal of Chemistry, Vol 29, No 6, Hal 1270-1274, 2017	2017
10	Tin(IV) oxide-supported cobalt oxide catalysts for methylene blue photodegradation	Research Journal of Chemistry and Environment (Terindeks Scopus) Vol. 21 No 12, Hal 12-20, Desember 2017	2017
11	Structural Analysis of Powder Complex of Tris(1,10-phenanthroline)copper(II) Trifluoromethane Sulfonate Dihydrate	Jurnal Oriental Journal of Chemistry, Vol 33 No. 6	20117
12	Hydrothermal Synthesis of Chloride Free Nitrogen Doped TiO_2 Nanoparticles	Asian Journal of Chemistry, Vol 30, No 6, Hal 1213-1216, 2018	2018
13	Structural Analysis of Powder Complex of $\text{Cu}(\text{bipy})_3(\text{CF}_3\text{SO}_3)_2(\text{H}_2\text{O})_x$ ($x=0.5, 1$)	Chiang Mai Journal of Science, Vol 45, No 4, halaman 1944-1952, Juli 2018	2018
14	Structural Analysis of Powdered Manganese(II) of 1,10-Phenanthroline (phen) as Ligand and Trifluoroacetate (TFA) as Counter Anion	Oriental Journal of Chemistry, Vol 34, No 2, hal 735-742, 2018	2018
15	N-Doped TiO_2/CdS Nanocomposite Films: Silar Synthesis, Characterization and Application in Quantum Dots Solar Cells	Oriental Journal of Chemistry, Vol 34, No 3, hal 1297-1302, 2018	2018
16	Preparation of N- TiO_2/PbS Nanocomposite using Successive Ionic Layer Adsorption and Reaction (SILAR) Method	Jurnal Oriental Journal of Chemistry, Vol 34 No. 5, halaman 2404-2409, 2018	2018
17	Structural Analysis of Powder Tris(phenanthroline) nickel(II) Trifluoroacetate	Chiang Mai Journal of Science, Vol 45 No 7, Hal 2768-2778, November 2018	2018
18	Synthesis and Structural Analysis of Powder Complex of Tris(bipyridine)cobalt(II) Trifluoromethanesulfonate Octahydrate	Indonesian Journal of Chemistry (terindeks Scopus), Vol 18 No 4, halaman 696-701, 2018	2018
19	Effect of Physical Properties upon Hydrothermal Treatments on Titanium Dioxide Films	Asian Journal of Chemistry (terindeks Scopus), Vol 31, No 1, Hal 165-168, Januari 2019	2019
20	Structural Study of the Powder Complex of Cu(II)-1,10-Phenanthroline- Trifluoroacetate	Oriental Journal of Chemistry (Terakreditasi ISI-Thomson Reuter), Vol 35 No. 1, halaman 325-331, 2019	2019
21	The Use of Cobalt-Doped Tin(IV) Oxide as a Catalyst for the Photodegradation of Methyl Orange	Nature Environment and Pollution Technology (terindeks Scopus, IF:	2019

		1,953), Vol 18, No 1, Hal 191-196, 2019	
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J. Book Writing Experience

No	Year	Title	Number of pages	Publisher
1				
2				

K. Structural Position Experience

No	Position	Year	Description
1	Ketua Sub Lab. Kimia Anorganik, Jurdik. Kimia UNY	2014 - 2016	UNY

L. Professional Experience

No	Position	Year	Description
1			
2			

M. Professional Organizational Membership

No	Professional Organizational Name	Year	Position
1			
2			

N. Patents and Proprietary Right

No	Title	Year	Nomor Hak Cipta
1			
2			

Thus this biodata made in truth to use properly.

Yogyakarta, June 28th, 2019



Dr Cahyorini Kusumawardani, M.Si
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