



MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION
UNIVERSITAS NEGERI YOGYAKARTA
GRADUATE SCHOOL

MASTER OF EDUCATION IN CHEMISTRY
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STAFF HANDBOOK

A. Personal Identity

1.	Full Name	Prof. Drs. Kristian Handoyo Sugiyarto, M.Sc., Ph.D
2.	Functional Position	Guru Besar, Pembina Utama Madya, IV/E
3.	NIP	19480915 196806 1 001
4.	Place and Date of Birth	Sukoharjo, Solo, 15 September 1948
5.	Home Address	Jl. Belimbing A 20, Perumahan Sidoarum II, Yogyakarta 55564
6.	Telephone/Fax	(0274) 798214
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8.	Office Address	Jurdik Kimia FMIPA UNY Karangmalang Yogyakarta 55281
9.	Telephon/Fax	(0274)548203
10.	E-mail	sugiyarto@uny.ac.id
11.	Specific Expertise	Kimia Anorganik Transisi
12.	Subjects taught	Kimia Anorganik I (non logam) dan Praktikum
		Kimia Anorganik II (logam) dan Praktikum
		Kimia Anorganik III (Kimia Transisi) dan Praktikum
		Kimia Anorganik IV (Aplikasi Kimiawi Teori Group)
		Bioanorganik
		Bahasa Inggris untuk Kimia
		Kewiraan / Kewarganegaraan
		Kimia Anorganik III
		Prinsip dan Teori Spektroskopi

B. Educational Background

Program	S1	S2	S3
1. Institution Name	IKIP Yogyakarta	The School of Chemistry, UNSW, Australia	The School of Chemistry, UNSW, Australia
2. Field	Pend. Kimia	Inorganic Chemistry	Inorganic Chemistry
3. Year of Entry			
4. Graduation Year	1978	1987	1993
5. Title of Undergraduate Thesis/ Master Thesis/ and Dissertation	Studi Komparasi Hasil Belajar Ilmu Kimia di Kelas I Semester II SMA Negeri III Surakarta dengan Sistem Modul dan dengan Sistem Tradisional	Electronic Properties of Metal Derivatives of Chelates Containing Five-membered Heterocycles	Electronic Properties of Iron(II) Complexes of 1,2,4-Triazole and Related Multidentates
6. Promotor	Drs. Sukardjo	Prof. H. A. Goodwin	Prof. H. A. Goodwin

C. Training Experience

No	Training Field	Organizer	Year	Certificate

D. Research Experiences

No	Year	Research Title	Funding	
			Source	Amount (Milion Rp)
1	2014	Development of Solid State Dye-Sensitized Solar Cell Based on Nitrogen Doped TiO ₂		
2	2014	Analisis Kemampuan Generik Kimia melalui Pengembangan Media Interaktif Berbasis Miskonsepsi dalam Kimia		
3	2014	Sintesis dan Karakterisasi Senyawa Kompleks Co(II), Ni(II), dan Cu(II) dengan Ligan Bipiridin dan Anion Triflat		
4	2015	Pengembangan Media Mobile Learning "Chem Edu" Berbasis Android sebagai Suplemen Materi Kimia Berdasarkan Kurikulum 2013 untuk Meningkatkan Academic Performance Siswa SMA/MA		

5	2015	Sintesis dan Karakterisasi Senyawa Kompleks Beberapa Logam Transisi dengan Ligan 1,10- <i>fenanthrolin</i> dan anion <i>trifluorometanasulfonat</i>		
6	2016	Sintesis dan Karakterisasi Senyawa Kompleks Besi(III) dan Cobalt(II) dengan Ligan 1,10- <i>fenanthrolin</i> dan anion <i>trifluorometanasulfonat</i>		
7	2017	Sintesis dan Karakterisasi Senyawa Kompleks Beberapa Logam Transisi dengan Ligan 1,10- <i>fenanthrolin</i> dan anion <i>trifluoroasetat</i>		
8	2019	Developing Advanced Material of Spin-Crossover in Iron(II) Complex		

E. Community Service Experiences

No	Tahun	Community Service Title	Funding	
			Source	Amount (Milion Rp)

F. International Seminar/Workshop/Convention Experience

No	International Seminar/Workshop	Year	Position (Participant/ Presenter/ Keynote Speaker)
1	International Conference on Mathematics, Sciences, Technology, Education, and their Applications, ICMSTEA, UNM-Makassar	2014	Invited Speaker
2	IPCSM UPSI Malaysia	2016	Presenter
3	Workshop Phitsanulok, Thailand	2017	Presenter
4	ANNIC 2017, Rome	2017	Presenter
5	International Conference, ICST- UGM	2017	Invited Speaker
6	8th Edition of International Conference on Chemistry Education and Research, Zurich, Switzerland	2018	Presenter

G. Local and National of Seminar/Workshop/Convention Experience

No	Local and National Seminar/ Workshop/ Convention	Year	Position (Participant, Presenter, Keynote Speaker)

H. Publication on International Journal

No	Title	Year	Journal Name and Edition
1	Structural analysis of powder complex of	2017	AIP Conference

	[Mn(phen) ₃](CF ₃ SO ₃) ₂ ·6.5H ₂ O doi: 10.1063/1.4983902		Proceedings 1847, 040006 (2017)
2	Collaboration of chemistry instructional games and group investigation (Gi) model to improve learning outcome in high school students doi: 10.1063/1.4983906	2017	AIP Conference Proceedings 1847, 050004 (2017)
3	The effect of the use of android-based application in learning together to improve students' academic performance doi: 10.1063/1.4983910	2017	AIP Conference Proceedings 1847, 050008 (2017)
4	Structural Analysis of Powder Complex of Cu(bipy) ₃ (CF ₃ SO ₃) ₂ (H ₂ O) _x (x = 0.5, 1)	2018	<i>Chiang Mai J. Sci.</i> , 2018; 45(4),1944-1952
5	Structural Analysis of Powder Complex of Tris(1,10-phenanthroline)copper(II) Trifluoromethanesulfonate Dihydrate	2017	<i>Oriental Journal of Chemistry</i> , 2017, 33(6), 2841-2847
6	Structural Analysis of Powder Manganese(II) of 1,10-phenanthroline (phen) as Ligand and Trifluoroacetate (TFA) Counter anion	2018	<i>Oriental Journal of Chemistry</i> , 2018, 34(2), 735-742
7	Synthesis and Structural Analysis of Powder Complexes of Tris(bipyridine)cobalt(II) Trifluoromethanesulfonate Octahydrate	2018	<i>Indonesian Journal of Chemistry</i> , 2018, 18 (4), 696 - 701
8	Structural Analysis of Powder Tris(phenanthroline)nickel(II) Trifluoroacetate	2018	<i>Chiang Mai J. Sci.</i> , 2018; 45(7),2768-2778
9	Structural Study of the Powder Complex of Cu(II)-1,10-Phenanthroline- Trifluoroacetate	2019	<i>Oriental Journal of Chemistry</i> , 2019, 35(1),325-331
10	Electronic Properties of Iron(II) Complexes of 2-(Pyridin-2-yl)benzoxazole	2019	<i>Chiang Mai J. Sci.</i> , 2019; to be published on July

I. Publication on National Journal

No	Title	Year	Journal Name and Edition

J. Book Writing Experience

No	Year	Title	Number of pages	Publisher
1	1988	Teknologi Pengajaran Kimia		
2	1998	Kimia Anorganik I		
3	1999	Kimia Anorganik II		
4	1997	Kimia Anorganik Fisik		
5	2009 (rev)	Kimia Anorganik III (Transisi)		
6	2008 (rev)	Kimia Anorganik IV (Aplikasi Kimiawi Teori Grup)		

7	2001 (rev)	Petunjuk Praktikum Kimia Anorganik I		
8	2001 (rev)	Petunjuk Praktikum Kimia Anorganik II		
9	2002	Petunjuk Praktikum Kimia Anorganik III		
10	2010	Kimia Anorganik Logam		
11	2012	Dasar-dasar Kimia Anorganik Transisi		Graha Ilmu
12	2013	Kimia Anorganik Nonlogam		UNY Press

K. Structural Position Experience

No	Position	Year	Description

L. Profesional Experience

No	Position	Year	Description

M. Profesional Organizational Membership

No	Professional Organizational Name	Year	Position

Thus this biodata made in truth to use properly.

Yogyakarta, Februari 28th 2019

Prof. Drs. K.H. Sugijarto, Ph.D.
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