

## CURRICULUM VITAE

### A. Data Pribadi

- (1). Nama Lengkap : Prof. Drs. Kristian Handoyo Sugiyarto, M.Sc., Ph.D.  
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### B. Latar Belakang Pendidikan

No	Program Pendidikan	Gelar	Tahun Lulus	Program Studi	Nama PT	Negara
1.	Sarmud Dik Kimia	BA	1972	<i>Pendidikan Kimia</i>	IKIP SURAKARTA	Indonesia
2	Sarjana	Drs	1978	<i>Pendidikan Kimia</i>	IKIP YOGYAKARTA	Indonesia
3	Master	M.Sc	1987	Kimia Anorganik	Univ. of New South Wales	Australia
4	Doktor	Ph.D	1993	Kimia Anorganik	Univ. of New South Wales	Australia

### C. Pengalaman Mengajar (5 tahun terakhir)

No	Nama Matakuliah (Subject Matter Knowledge)	Keterangan (Prodi)
1	English for Chemistry	Kimia
2	Kimia Anorganik Transisi/Kimia Koordinasi	Kimia
3	Aplikasi Kimiawi Teori Group	Kimia
4	Bimbingan Penulisan Karya Ilmiah	Kimia, FIP, FIS, FIK
5	Pendidikan Kewarganegaraan	Kimia
6	Special Topic for Chemistry	Kimia (S2)

### D. Pengalaman Menulis Buku (5 tahun terakhir)

No.	Pengarang	Judul Buku	Tahun	Penerbit

### E. Pengalaman Penelitian Kimia (5 tahun terakhir)

No.	Judul Penelitian	Th.	Kedudukan dalam Penelitian	Sumber dan Besar Dana	Jml. Dana
1	Development of Solid State Dye-Sensitized Solar Cell Based on Nitrogen –Doped TiO <sub>2</sub> <u>Cahyorini Kusumawardani</u> , K. H. Sugiyarto, dan A. K. Prodjosantoso	2014 - 2016	Anggota	DIKTI	500jt
2	Sintesis dan Karakterisasi Senyawa Kompleks Besi(III) dan Cobalt(II) dengan Ligan 1,10- <i>fenanthroline</i> dan anion <i>trifluorometanasulfonat</i> (2016, <u>K. H. Sugiyarto</u> , dan Cahyorini Kusumawardani; biaya mandiri)	2016	Ketua	FMIPA	20Jt
3	Pengembangan Media Mobile Learning "Chem Edu" Berbasis Android sebagai Suplemen Materi Kimia Berdasarkan Kurikulum 2013 untuk Meningkatkan Academic Performance Siswa SMA/MA (2015-2017, <u>K. H. Sugiyarto</u> , dan Jaslin Ikhsan-Tahun Terakhir)	215- 2017	Ketua	DIKTI	300jt
4	Sintesis dan Karakterisasi Senyawa Kompleks Beberapa Logam Transisi dengan Ligan 1,10- <i>fenanthroline</i> dan anion <i>trifluoroasetat</i> (2017, <u>K. H. Sugiyarto</u> , dan Cahyorini Kusumawardani, Hari Sutrisno)	2017	Ketua	Fakultas	20jt
5	Developing Advanced Material of Spin-Crossover in Iron(II) Complex (2019-2021). <u>K. H. Sugiyarto</u> (UNY), Djulia Onggo (ITB), Hari Sutrisno (UNY).	2019	Ketua	DIKTI	120 jt
6	Sintesis dan Karakterisasi Senyawa Kompleks Mn(II) dengan Ligan <i>bipyridine</i> dan anion <i>trifluoroasetat</i> dan <i>trifluorometanasulfonate</i> (2020, <u>K. H. Sugiyarto</u> , Cahyorini Kusumawardani, Dyah Purwaningsih, dan Hari Sutrisno)	2020	Ketua	Fakultas	24 jt
7	Developing Advanced Material Of Spin-Crossover (SCO) In Cobalt(Ii) And Chromium(Ii) Complexes Of 2,6-Bis(Pyrazol-3-Yl)Pyridine (Bpp) And/Or Bipyridine (Bipy)	2021	Ketua	Fakultas	20 jt

### F. Publikasi Ilmiah (5 tahun terakhir)

No.	Tim Penulis	Th.	Judul artikel	Nama Jurnal (Indeks)	Vol., No., & hal.
1	Kristian Handoyo Sugiyarto <sup>a</sup> , Djulia Onggo <sup>b</sup> , Hiroki Akutsu <sup>c</sup> , Varimalla Raghavendra Reddy <sup>d</sup> , Hari Sutrisno <sup>a</sup> , Yasuhiro Nakazawa <sup>c</sup> , Ashis	2021	Structural, Magnetic and Mössbauer Spectroscopic Studies of the [Fe(3-bpp) <sub>2</sub> ](CF <sub>3</sub> COO) <sub>2</sub> Complex: Role of Crystal Packing Leading to an Incomplete Fe(II) High Spin ⇌ Low Spin Transition	Crystal Engineering Community ( <i>CrystEngComm</i> ) (Q1; H index 132; Impact factor: 3.545*)	23:2854-2861 <a href="https://doi.org/10.1039/D0C E01687J">https://doi.org/10.1039/D0C E01687J</a>

No.	Tim Penulis	Th.	Judul artikel	Nama Jurnal (Indeks)	Vol., No., & hal.
	Bhattacharjee*				
2	Kristian Handoyo Sugiyarto <sup>1,*</sup> , Isti Yunita <sup>1</sup> , and Harold Andrew Goodwin	2020	Preparation, Electronic Properties, and Powder-XRD Structure Analysis of 3,5-Bis(pyridin-2-yl)-H-1,2,4-triazoledichloridocopper(II)	<i>Indonesian Journal of Chemistry.(Indones. J. Chem.)</i> , H-Index 14 (Q3)	20 (6), 1422 - 1429 DOI: 10.22146/ijc.55600
3	Kristian Handoyo Sugiyarto*[a], Cornelia Budimarwanti [a] and Harold Andrew Goodwin [b]	2020	Iron(II) Complexes Containing 1,2,4-Triazole-Pyridine and the Substituted Derivatives; Electronic Properties and Magnetic Moments	Chiang Mai J. Sci. 2020; 47(5) : 1068-1080 <a href="http://epg.science.cmu.ac.th/ejournal/H-Index">http://epg.science.cmu.ac.th/ejournal/H-Index</a> 20 (Q4)	47(5) : 1068-1080 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a>
4	Kristian Handoyo Sugiyarto*, Isana Supiah Yosephine Louise, and Shinta Setya Wilujeng	2020	Preparation and Powder XRD Analysis of Tris(2,2'-bipyridine)nickel(II) Trifluoroacetate	<i>Indonesian Journal of Chemistry.(Indones. J. Chem.)</i> , H-Index 14 (Q3)	20 (4), 833 - 841 DOI: 10.22146/ijc.46483
5	Isana Supiah Yosephine Louise, Savetsilla Nabila And Kristian Handoyo Sugiyarto*	2019	Complex of Tris(phenanthroline)cobalt(II) Trifluoroacetate: Characterisation and Powder XRD Analysis	Oriental Journal Of Chemistry H-Index 23 (Q4)	Vol. 35, No.(5):1500-1507 <a href="http://dx.doi.org/10.13005/ojc/350504">http://dx.doi.org/10.13005/ojc/350504</a>
6	Kristian Handoyo Sugiyarto [a] and Harold Andrew Goodwin [b]	2019	Electronic Properties of Iron(II) Complexes of 2-(Pyridin-2-yl)Benzoxazole	Chiang Mai J. Sci. 2019; 46(4) : 756-765 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a> H-Index 20 (Q4)	46(4) : 756-765 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a> Contributed Paper
7	K H Sugiyarto*	2019	Spin state transition in iron(II): a review on bis-[(2,6-bis(pyrazol-3-yl)pyridine]iron(II) complex	International Conference of Chemistry (ICCHEM) 2018	IOP Conf. Series: Journal of Physics: Conf. Series 1156 (2019) 012007 IOP Publishing doi:10.1088/1742-6596/1156/1/012007
8	Kristian Handoyo Sugiyarto <sup>1*</sup> , Cahyorini Kusumawardani <sup>1</sup> , Hestina Wigati <sup>1</sup> And Hari Sutrisno.	2019	Structural Study of the Powder Complex of Cu(II)-1,10-Phenanthroline-Trifluoroacetate	Oriental Journal Of Chemistry H-Index 23 (Q4)	2019, Vol. 35, No.(1): Pg. 325-331 <a href="http://dx.doi.org/10.13005/ojc/350139">http://dx.doi.org/10.13005/ojc/350139</a>

No.	Tim Penulis	Th.	Judul artikel	Nama Jurnal (Indeks)	Vol., No., & hal.
9	Hari Sutrisno, Cahyorini Kusumawardani, Rifa i Yusuf Rananggana and Kristian Handoyo Sugiyarto*	2018	Structural Analysis of Powder Tris(phenanthroline) nickel(II) Trifluoroacetate	Chiang Mai J. Sci. 2018; 45(7): 2768-2778 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a> H-Index 20 (Q3)	Chiang Mai J. Sci. 2018; 45(7) : 2768-2778 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a>
10	Kristian Handoyo Sugiyarto*, Cahyorini Kusumawardani, and Kristanti Eka Wulandari	2018	Synthesis and Structural Analysis of Powder Complex of Tris(bipyridine)cobalt(II) Trifluoromethanesulfonate Octahydrate	<i>Indonesian Journal of Chemistry. (Indones. J. Chem.)</i> , H-Index 14 (Q3)	18 (4), 696 - 701
11	Cahyorini Kusumawardani, Fitra Kainastiti and Kristian Handoyo Sugiyarto*	2018	Structural Analysis of Powder Complex of Cu(bipy) <sub>3</sub> (CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>x</sub> (x = 0.5, 1)	Chiang Mai J. Sci. 2018; 45(4) : 1944-1952 <a href="http://epg.science.cmu.ac.th/ejournal/H-Index">http://epg.science.cmu.ac.th/ejournal/H-Index</a> 20 (Q3)	45(4) : 1944-1952 <a href="http://epg.science.cmu.ac.th/ejournal/">http://epg.science.cmu.ac.th/ejournal/</a>
12	Kristian Handoyo Sugiyarto <sup>1</sup> *, Cahyorini Kusumawardani <sup>1</sup> And Anti Kolonial Prodjosantoso <sup>1</sup>	2018	N-Doped TiO <sub>2</sub> /CdS Nanocomposite Films: Silar Synthesis, Characterization and Application in Quantum Dots Solar Cell	Oriental Journal Of Chemistry H-Index 23 (Q3)	Vol. 34, No.(3): Pg. 1297-1302 <a href="http://dx.doi.org/10.13005/ojc/340313">http://dx.doi.org/10.13005/ojc/340313</a>
13	Kristian Handoyo Sugiyarto <sup>1</sup> , Cahyorini Kusumawardani <sup>1</sup> , Hari Sutrisno <sup>1</sup> and Muhammad Wahyu Arif Wibowo <sup>1</sup>	2018	Structural Analysis of Powdered Manganese(II) of 1,10-Phenanthroline (phen) as Ligand and Trifluoroacetate (TFA) as Counter anion	Oriental Journal Of Chemistry H-Index 23 (Q3)	2018, Vol. 34, No.(2): Pg. 735-742 <a href="http://dx.doi.org/10.13005/ojc/340216">http://dx.doi.org/10.13005/ojc/340216</a>
14	B B Jatmiko <sup>1</sup> , K H Sugiyarto <sup>2</sup> and J Ikhsan <sup>2</sup>	2018	Developing ChemonDro Application on Redox Concepts to Improve Self-Regulated Learning of Students	IOP Conf. Series: Journal of Physics: Conf. Series 1097 (2018) 012055 doi :10.1088/1742-6596/1097/1/012055	IOP Conf. Series: Journal of Physics: Conf. Series 1097 (2018) 012055 doi :10.1088/1742-6596/1097/1/012055
15	K H Sugiyarto <sup>1</sup> ,J Ikhsan <sup>1</sup> * and I R Lukman <sup>1</sup>	2018	The use of an android-based-game in the team assisted individualization to improve students' creativity and cognitive achievement in chemistry	IOP Conf. Series: Journal of Physics: Conf. Series 1022 (2018) 012037	IOP Conf. Series: Journal of Physics: Conf. Series 1022 (2018) 012037

No.	Tim Penulis	Th.	Judul artikel	Nama Jurnal (Indeks)	Vol., No., & hal.
				doi :10.1088/17426596/1022/1/012037	doi :10.1088/17426596/1022/1/012037
16	M K Nais1, a), K H Sugiyarto2, J Ikhsan2	2018	The profile of students' self-efficacy using virtual chem-lab in hybrid learning	IOP Conf. Series: Journal of Physics: Conf. Series 1097 (2018) 012060 doi :10.1088/1742-6596/1097/1/012060	IOP Conf. Series: Journal of Physics: Conf. Series 1097 (2018) 012060 doi :10.1088/1742-6596/1097/1/012060
17	Cahyorini Kusumawardani1, Lis Permanasari1, Siska Dwi Fatonah1 And Kristian Handoyo Sugiyarto1*	2017	Structural Analysis of Powder Complex of Tris (1,10-phenanthroline)copper(II) Trifluoromethane Sulfonate Dihydrate	Oriental Journal Of Chemistry H-Index 23 (Q3)	Vol. 33, No.(6): Pg. 2841-2847 <a href="http://dx.doi.org/10.13005/ojc/330617">http://dx.doi.org/10.13005/ojc/330617</a>
18	Ita Puspita, Kristian H. Sugiyarto, and Jaslin Ikhsan	2017	Collaboration of chemistry instructional games and group investigation (Gi) model to improve learning outcome in high school students	: AIP Conference Proceedings 1847, 050004 (2017); doi: 10.1063/1.4983906	: AIP Conference Proceedings 1847, 050004 (2017); doi: 10.1063/1.4983906 <a href="http://dx.doi.org/10.1063/1.4983906">http://dx.doi.org/10.1063/1.4983906</a>
19	Andi Maria Ulfa, Kristian H. Sugiyarto, and Jaslin Ikhsan	2017	The effect of the use of android-based application in learning together to improve students' academic performance	AIP Conference Proceedings 1847, 050008 (2017); doi: 10.1063/1.4983910	AIP Conference Proceedings 1847, 050008 (2017); doi: 10.1063/1.4983910 <a href="http://dx.doi.org/10.1063/1.4983910">http://dx.doi.org/10.1063/1.4983910</a>
20	Sugiyarto, K. H. a), Saputra, H. W., Permanasari, L., and Kusumawardani, C.	2016	Structural Analysis of Powder Complex of [Mn(phen)3](CF3SO3)2.6.5H2O	AIP Conference Proceedings	<a href="http://dx.doi.org/10.1063/1.4983902">http://dx.doi.org/10.1063/1.4983902</a> 1847, 040006 (2017); doi: 10.1063/1.4983902

**G. Publikasi Ilmiah dalam Prosiding Nasional dan Internasional (5 tahun terakhir)**

No	Nama Forum Penyelenggara	Institusi Penyelenggara	Judul makalah	ISSN Prosiding	Waktu: Tgl., tahun	Tempat
	Presentasi artikel di IPCSM2016 UPSI Malaysia pada 19 Oktober 2016.	UPSI Malaysia	Structural Analysis of Powder Complex of $[Mn(phen)_3](CF_3SO_3)_2 \cdot 6.5H_2O$	AIP Conference Proceedings Proceedings of the International Conference on Education, Mathematics and Science 2016 (ICEMS2016) in Conjunction with 4th International Postgraduate Conference on Science and Mathematics 2016 (IPCSM2016) AIP Conf. Proc. 1847, 040006-1–040006-7; doi: 10.1063/1.4983902 Published by AIP Publishing. 978-0-7354	19 Oktober 2016	Malaysia
	Presentasi pada ANNIC 2017, October, 17-20, 2017, Rome	ANNIC 2017	N-Doped TiO <sub>2</sub> /CdS Nanocomposite Films: Silar Synthesis, Characterization and Application in Quantum Dots Solar Cell		October, 17-20, 2017	Roma
	Presentasi artikel pada 8th Edition of International Conference on Chemistry		Structural Study of the Powder Complex of Cu(II)-1,10-Phenanthroline-Trifluoroacetate	Oriental Journal Of Chemistry H-Index 23 (Q4)	August 27-28, 2018, Zurich, Switzerland.	August 27-28, 2018, Zurich, Switzerland

	Education and Research, August 27-28, 2018, Zurich, Switzerland.					
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#### H. Pengalaman Pengabdian Kepada Masyarakat (3 tahun terakhir)

No.	Pelaksana	Tahun	Judul	Sumber Dana	Jumlah Dana
	Kimia UNY	2021	Kreasi ikatan kovalen C-C pada karbon Bola C60, C70, C80	FMIPA	
	KIMIA UNY	2020			
	KIMIA UNY	2019			
	Dinas DIY	2018	Olimpiade Kimia Anorganik	Dinas DIY	
	Dinas DIY	2017	Olimpiade Kimia Anorganik	Dinas DIY	
	Dinas DIY	2016	Olimpiade Kimia Anorganik	Dinas DIY	

#### I. Perolehan HaKI (Patent, Hak Cipta) (5 tahun terakhir)

No.	Tim Inventor	Th.	Judul/Tema HaKI	Jenis HaKI (Patent, Hak Cipta)	No. Pendaftaran/Sertifikat
1	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. MARIYATUL SOLIHAN, M.Pd.	2017	CHEMONDRO ABAN-BASA (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702542, 19 Juni 2017
2	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. NITA APTIYAH YUSRIAN, S.Pd.	2017	CHEMONDRO HIDROKARBON (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702547, 19 Juni 2017
3	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. SUGIYARTO MARIYATUL SOLIHAN, M.Pd.	2017	CHEMONDRO IKATAN KIMIA (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702548, 19 Juni 2017
4	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. PERTY YUSRIAN, M.Pd.	2017	CHEMONDRO SELARUTAN (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702543, 19 Juni 2017
5	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. HADYITA WULANAH, M.Pd.	2017	CHEMONDRO KESETIMBANGAN KIMIA (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702550, 19 Juni 2017
6	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. ARDI MARIYATUL SOLIHAN, M.Pd.	2017	CHEMONDRO STOIKIOMETRI (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702546, 19 Juni 2017
7	1. Prof. Dr. KRISTIAN HARDOYO SUGIYARTO, M.Sc., Ph.D. 2. Drs. JAGLIH IKHMAN, M.App.Sc., Ph.D. 3. SARA SUCIYA LUBISAN, M.Pd.	2017	CHEMONDRO TATA NAMA SENYAWA (MEDIA PEMBELAJARAN KIMIA BERBASIS ANDROID)	HaKI	C00201702541, 19 Juni 2017

#### J. Pengalaman Jabatan dan Lain-Lain

No.	Jenis Jabatan	Masa Jabatan
		KOSONG

Semua data yang saya isikan dan tercantum dalam biodata ini adalah benar dan dapat dipertanggung jawabkan secara hukum, dan apabila dikemudian hari ternyata dijumpai ketidaksesuaian dengan kenyataan, saya sanggup menerima resiko.

Yogyakarta, Juli, 2021



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