



STAFF HANDBOOK

Name	Dr. Utami Widyaiswari, M.Si.				
Position	Physics				
Academic Career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>		
	Lecturer	Universitas Pendidikan Indonesia	2024 - now		
	<i>Habilitation (Post-doctoral)</i>	<i>Institution</i>	<i>Year</i>		
	Post-doctoral Fellowship	Universitas Padjadjaran	2023 - 2024		
	<i>Doctorate</i>	<i>Institution</i>	<i>Year</i>		
	Materials Science	Universitas Indonesia	2018 - 2022		
	<i>Master</i>	<i>Institution</i>	<i>Year</i>		
Physics	Universitas Indonesia	2014 – 2016			
<i>Undergraduate degree</i>	<i>Institution</i>	<i>Year</i>			
Physics Education	Universitas Pendidikan Indonesia	2009 - 2013			
Employment	<i>Position</i>	<i>Employer</i>	<i>Year</i>		
	Lecturer	Dean	2024 - now		
Research and development projects over the last 5 years	No	Year	Title of Research Project	Financing	
				Sources	
				Amount (Million Rp)	
	1	2025	Pengembangan Prototipe Microbial Fuel Cell (MFC) Cerdas: Upaya Kolaborasi Internasional untuk Inovasi Energi Berkelanjutan	Hilirisasi Inovasi Hasil Penelitian, Direktorat Inovasi dan Pusat Unggulan (DIPU) UPI 2025; Anggota Penelitian	100
	2	2025	Eksplorasi Sifat Magnet Material Oksida untuk Teknologi Energi Berkelanjutan	Riset Kolaborasi Indonesia Skema A, Sumber dana: FPMIPA UPI 2025; Anggota Peneliti	75
	3	2025	Investigasi Pengaruh Doping Mn terhadap Struktur Kristal dan Sifat Magnetik Pyrochlore $Y_2Ru_{2-x}Mn_xO_7$	BIMA, PPS-PTM, 2025; Anggota Penelitian	40
4	2023	Investigation of the Particle Size Effect on the Oxygen Evolution Reaction (OER) Activity: Pyrochlore as a Catalyst in OER for Hydrogen Production	Universitas Padjadjaran, Post-Doctoral Fellowship 2023-2024; Anggota penelitian	60	
Industry collaborations over the last 5 years	-				
Patents and proprietary rights	No	Title	Type	Year	
	1	-			
	2	-			



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Important publications over the last 5 years	Scopus H-index: 5 Google Scholar H-index: 5		
	No	Publication	Author (s)
	1.	The Improvement of Magnetic Order in Overdoped Regime by Magnetic Impurities in $\text{Eu}_{2-(x+y)}\text{Ce}_{x-y}\text{Cu}_{1-y}\text{Fe}_y\text{O}_{4+\alpha-\delta}$, (2025), Materials Science Forum 1152, 65-74.	Muhammad Naufal Farras, Rosaldi Pratama, Muhammad Naufal Ardian, Utami Widyaiswari , Rahma Sundaya Effendi, Muhammad Abdan Syakuur, Anita Eka Putri, Risdiana Risdiana, Togar Saragi
	2.	The Suppression of Superconductivity in Heavily Overdoped Regime of $\text{Eu}_{1.81}\text{Ce}_{0.19}\text{CuO}_{4+\alpha-\delta}$ by Nonmagnetic Zn Impurities, (2025), Key Engineering Materials 1015, 3-10.	Rosaldi Pratama, Muhammad Naufal Farras, Muhammad Abdan Syakuur, Yati Maryati, Utami Widyaiswari , Anita Eka Putri, Togar Saragi, Atiek Rostika Noviyanti, Risdiana Risdiana
	3.	Critical Role of Wet Milling for the Synthesis of Single-Phase $\text{Pr}_2\text{Ru}_2\text{O}_7$ and Evaluation of Its Crystallite Size, (2025), Wahana Fisika 10(1), 27-37.	Utami Widyaiswari , Indah Puspitasari, Gia Nurlita Putri, Mohammad Dharul Asmawan, Muhammad Redo Ramadhan, Iman Santoso, Muhamad Darwis Umar, Endi Suhendi, Risdiana
	4.	Evolution of magnetic state with nanoparticle size in electron-doped cuprate $\text{Eu}_{1.85}\text{Ce}_{0.15}\text{CuO}_{4+\alpha-\delta}$, (2025), Materials Research Express 12(4), 045001.	Devi Nurmallasari, Suci Winarsih, Rosaldi Pratama, Anita Eka Putri, Utami Widyaiswari , Risdiana Risdiana
	5.	Ru-based pyrochlore oxide as a candidate for electrocatalyst in hydrogen production: A systematic literature review, (2025), International Journal of Hydrogen Energy 106, 444-453.	Utami Widyaiswari , Gia Nurlita Putri, Risdiana
	6.	Magnetism on frustrated magnet system of $\text{Nd}_2\text{B}_2\text{O}_7$ (B = Ru, Ir, Hf, Pb, Mo, and Zr): A systematic literature review, (2024), Reviews in Physics 12, 100094.	Muhammad Abdan Syakuur, Utami Widyaiswari , Isao Watanabe, Risdiana Risdiana
	7.	Structural, electronic, and magnetic properties of pyrochlore $\text{Nd}_2\text{Ir}_2\text{O}_7$ studied by first-principles calculations, (2024), Interactions 245(1).	Supparat Charoenphon, Utami Widyaiswari , Muhammad Abdan Syakuur, Retno Asih, Pakpoom Reunchan, Isao Watanabe
	8.	Enhancement of magnetism by tailoring synthesis conditions in electron-doped superconducting nanoparticles, (2024), Physical Chemistry Chemical Physics 26(20), 14787.	Muhammad Fadhil Falhan, Suci Winarsih, Rosaldi Pratama, Muhammad Abdan Syakuur, Utami Widyaiswari , Anita Eka Putri, Risdiana
9.	Particle size and its distribution deduced from magnetic properties of magnetite nanoparticles by the modified Langevin equation, (2023), AIP Advances 13, 9.	Togar Saragi, Utami Widyaiswari , Darling Josua Manalu, Budi	



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		Adiperdana, Risdiana Risdiana, Tadashi Adachi
10.	Magnetic Susceptibility Study of Hole-Doped Organic Metal κ -(ET)4Hg3- δ Cl8, $\delta=22\%$ and κ -(ET)4Hg3- δ Br8, $\delta=11\%$, (2023), Solid State Phenomena 345, 47-52.	Dita Puspita Sari, Utami Widyaiswari , Yuta Someya, Eiki Yamada, Hiromi Taniguchi, Isao Watanabe, Yasuyuki Ishii
11.	Magnetic and Superconducting Phase Diagram of Electron-Doped Eu _{2-x} Ce _x CuO _{4+α-δ} , Solid State Phenomena 345, 53-59.	Yati Maryati, Muhammad Abdan Syakuur, Utami Widyaiswari , Dita Puspita Sari, Togar Saragi, Risdiana Risdiana
12.	Investigation of Dependence of Magnetic Properties on Sintering Temperature of Eu _{1.85} Ce _{0.15} CuO _{4+α-δ} Prepared by Sol-Gel Method, Solid State Phenomena 345, 85-91.	Muhammad Fadhil Falhan, Suci Winarsih, Rosaldi Pratama, Muhammad Abdan Syakuur, Utami Widyaiswari , Anita Eka Putri, Togar Saragi, Risdiana Risdiana
13.	Study of Crystal Structure and Magnetics Properties in the Normal State of Electron-Doped Eu _{2-x} Ce _x Cu _{0.97} Zn _{0.03} O _{4+α-δ} in Overdoped Regime, (2023), Solid State Phenomena 345, 85-91.	Rosaldi Pratama, Muhammad Fadhil Falhan, Rahma Sundaya Effendi, Muhammad Abdan Syakuur, Utami Widyaiswari , Dita Puspita Sari, Togar Saragi, Risdiana Risdiana
14.	Superconductivity nearby quantum critical region in hole-doped organic strange metal κ -(ET) 4Hg3- δ Br8, $\delta= 11\%$, (2023), Journal of Physics: Conference Series 2462 (1), 012061.	DP Sari, M Kaito, Y Someya, U Widyaiswari , I Watanabe, H Taniguchi, Y Ishii
15.	Magnetic Plateaux of the Frustrated Magnet, Pseudomalachite, (2023), Proceedings of the 29th International Conference on Low Temperature Physics (LT29).	Hikomitsu Kikuchi, Yutaka Fujii, Yuya Ishikawa, Akira Matsuo, Koichi Kindo, Utami Widyaiswari , Isao Watanabe
16.	The Evaluation of the Crystal Structure and Magnetic Properties of Eu _{1.84} Ce _{0.16} CuO _{4+α-δ} with Ni Substitution, (2023), Crystals 13(7), 1066.	Muhammad Fadhil Falhan, Rosaldi Pratama, Lucia Patia Rochman, Rahma Sundaya Effendi, Yati Maryati, Utami Widyaiswari , Dita Puspita Sari, Togar Saragi, Risdiana Risdiana
17.	Estimation of the on-site Coulomb potential and covalent state in by muon spin rotation and density functional theory calculations, (2022), Physical Review Research 4 (3), 033044.	Muhammad Redo Ramadhan, Budi Adiperdana, Irwan Ramli, Dita Puspita Sari, Anita Eka Putri, Utami Widyaiswari , Harison binti Rozak, Wan Nurfadhilah Zaharim, Azwar Manaf, Budhy Kurniawan, Mohamed Ismail Mohamed-Ibrahim, Shukri Sulaiman, Takayuki Kawamata, Tadashi Adachi, Yoji Koike, Isao Watanabe



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	18.	Changes in the Structural Parameters and Effective Magnetic Moment of $\text{Eu}_{2-x}\text{CexCuO}_{4+\alpha-\delta}$ by Zn Substitution, (2022), Coatings 12 (6), 789.	Rosaldi Pratama, Togar Saragi, Trisna Maulana, Suci Winarsih, Yati Maryati, Muhammad Abdan Syakuur, Utami Widyaiswari , Dita Puspita Sari, Maykel Manawan, Risdiana Risdiana		
	19.	Muon spin motion at the crossover regime between Gaussian and Lorentzian distribution of magnetic fields, (2021), Progress of Theoretical and Experimental Physics 2021 (8), 083I01.	Muhamad Darwis Umar, Katsuhiko Ishida, Rie Murayama, Dita Puspita Sari, Utami Widyaiswari , Marco Fronzi, Harion Rozak, Wan Nurfadhilah Zaharim, Isao Watanabe, Masahiko Iwasaki		
	20.	Optimizations of the sintering temperature to reduce the Nd_3RuO_7 phase and investigations of their effect on the magnetic properties in $\text{Nd}_2\text{Ru}_2\text{O}_7$, (2021), Mater. Sci. Forum 1028, 3-8.	Utami Widyaiswari , Hideaki Sakai, Noriaki Hanasaki, Budhy Kurniawan, Isao Watanabe		
	21.	Magnetic Properties of Pyrochlore Ruthenate $\text{Nd}_2\text{Ru}_2\text{O}_7$ Studied by μSr , (2020), Key Engineering Materials 860, 288-293.	Utami Widyaiswari , Hideaki Sakai, Kanji Inoue, Noriaki Hanasaki, Dita Puspita Sari, Budhy Kurniawan, Isao Watanabe		
Activities in specialist bodies over the last 5 years			Organization	Role	Periods
			Physical Society of Indonesia (PSI)	Member	2024 - now
			Indonesia Magnetic Society (IMS)	Member	2024 - now
			The Physical Society of Japan	Member	2018 - 2021