

Dr. Muhimmatul Khoiro, S. Si.

Position	Lecturer of Material Optics and Instrumentation in Physics Study Program		
	Degree	University	Year
Academic career	The Bachelor Program at the Physics Department	Institut Teknologi Sepuluh Nopember (ITS) Indonesia	2010 - 2014
	Postgraduate Program in Physics Department (Non-degree)	Institut Teknologi Sepuluh Nopember (ITS) Indonesia	2015 - 2016
	The Doctoral Program in Physics Department	Institut Teknologi Sepuluh Nopember (ITS) Indonesia	2016 - 2020
	Scientific Articles Writing Training for International Journal Publications	Institut Teknologi Sepuluh Nopember (ITS) Indonesia	2016
	Optic and Photonics Seminar	Indonesian Institute of Sciences (LIPI)	2016
	Indofood Leadership Camp (BISMA)	PT Indofood Sukses Makmur Tbk	2013 - 2014
Employment	Position	Employer	Period
	A lecturer at Physics Study Program	Universitas Negeri Surabaya (UNESA) Indonesia	2021 - Now
	Tutor at Faculty of Science and Technology	Universitas Terbuka (UT) Indonesia	2020 – Now
Research and Development project over the last 5 Years	Year and Title		
	2015 - 2020: Study of Mach-Zehnder Structuring Waveguide Based SnO_2 Material for Optical Logic Gates Application (Dissertation Research)		
Patent and Proprietary Right	**Tittle**		**Year**
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Publications and Potential Articles over last 5 years	Optical Power Splitter Based on Single Mode Directional Coupler Waveguide Using SnO_2 Nanomaterial *J. Phys. Conf. Ser*. Vol. 2110, p. 012005		2021
	Electromagnetic Wave Equation Approximation using FDTD method on Conductivity Material *J. Phys. Conf. Ser.* Vol. 2110, p. 012032		2021
	Morphological and Optical Properties of Tin Oxide Nanomaterial Thin Film Deposited using Vacuum Evaporation. *J. Ceramic Soc. Japan*, 128(3):158‑163		2020
	Power efficiency analysis in various types of coil design. *IOP Conf. Ser.: Mater. Sci. Eng.*, Vol. 858, No. 1, p. 012055.		2020
	OR, XNOR, and NAND Optical Logic Gates in Mach-Zehnder Waveguiding Structure Consisting of Nonlinear Material. *Int. J. Microw. Opt. Technol.* 13, 462–469.		2018
	All-optical logic gates in directional coupler waveguide consisting of nonlinear material. *IEEE*, pp. 174–179.		2017
	All-optical logic gates based optimized XY-branch waveguide utilizing SnO_2 nonlinear material. *IEEE*, pp. 169–173.		2017
	Design and optimization high-performance bi-circular loop antenna with plane reflector and coaxial feed line at 2.45 GHz frequency. *IEEE*, pp. 154–158.		2017
	Analisis Jumlah Laser Dioda Terhadap Amplifikasi Daya Intensity Tunable Laser Pada Aplikasi Sumber Cahaya Pandu Gelombang Optik Berbasis Material Nonlinear. *Prosiding Seminar Nasional Fisika dan Aplikasinya (SNFA)*, pp. 250-256.		2017
Activities in Specialist Bodies	Organization	Position	Period
	Agency of Publication Partner Service (APPS)	Editor and E-book Manager	2020 - Now
	Indonesian Students Association of Japan Commissariat Kumamoto Prefecture (PPIJK)	Editor of Public Relation and Information	2019 - 2020
	Forum of Indonesia Moslem in Kumamoto Prefecture, Japan (FUMIKU)	Member	2019 - 2020