



Name (with title) : Dr. Asih Melati, S.Si, M.Sc
 Position : Assistant Professor
 Department : Physics
 Email : asih.melati@uin-suka.ac.id
 Teaching and Research Area : Material Physics and Material Engineering

Academic Career:

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Material Engineering	INSA Centre Val De Loire France	2023
Master/MSc degree	Physics	Universitas Gadjah Mada Indonesia	2010
Undergraduate degree	Physics	Universitas Gadjah Mada Indonesia	2008

Employment:

Position	Employer	Period
Head of Laboratory	Department of Physics UIN Sunan Kalijaga Yogyakarta	2012 - 2014
Secretary	Department of Physics UIN Sunan Kalijaga Yogyakarta	2014 – 2017
Lecturer	UIN Sunan Kalijaga Yogyakarta	2011 – Present

Primary Publications:

No	Title	Journal	Volume	Issue	Year
1	Effect of Fire-Retardant Coating and SiC Powder Filler on Thermal Properties of Green-Poxy Bio-Based Composites	Lecture Notes in Mechanical Engineering	ISBN 978-3-031-43934-6	05	2024
2	Intumescent fire-retardant performance and small-scale reaction mechanisms on banana/bio-epoxy composites	Fire and Material Journal	3181	10	2023
3	Experimental analysis of the effect of natural fibers and SiC filler on the thermal behavior of green biocomposites	Journal of Applied Polymer Science	140	(38), e54430	2023



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4	Effect of fire-retardant coating on bamboo and banana-based biocomposites: A comparative study thermogravimetric analysis and cone calorimeter tests	Journal of Thermoplastic Composite Materials	Online First		2023
5	Analisis Struktur Dan Komposisi Kimia Pada Tahapan Evolusi Bintang Primer Bermassa 2.24 M _☉ Tipe Algol	Jurnal Arjuna: Publikasi Ilmu Pendidikan, Bahasa dan Matematika	1 (4)	1 (4), 235-247	2023
6	Mathematical Model Simulation of Non-Linear Equations using MATLAB: Specific Volume of Gas with Van der Waals Equation	Jurnal Ilmiah Pendidikan Fisika Al-Biruni	11	2 (197-206)	2022
7	Optical behaviour of CuO/Ag thin film, prepared by RF-sputtering method at 13.56 Mhz, applicated as photocatalic degradation of methylene blue dye waste	AIP Conference Proceedings	2391	(1)	2022
8	A comparative study of carbon nanofiber (CNF) and activated carbon based on coconut shell for ammonia (NH ₃) adsorption performance	Applied Physics A	128	(3), 211	2022
9	EXPERIMENTAL THERMAL PERFORMANCE EVALUATION OF PLATE COIL HEAT EXCHANGER MADE FROM GREEN-POXY RESIN-BASED BIO-COMPOSITE AND SIC POWDER	ICHMT DIGITAL LIBRARY ONLINE	05	3	2022
10	Design of Ammonia Gas Measurement System using TGS-826 Sensor, Arduino Nano Microcontroller, 16x2 LCD, and Micro SD Module	Proceeding International Conference on Science and Engineering 3, 243-244 1 2020	3	1 (243 – 244)	2020
11	Wawasan Islam tentang Menjaga Lingkungan dan Implementasinya dalam Perancangan Sistem Pengukuran Gas Amonia	Prosiding Konferensi Integrasi Interkoneksi Islam dan Sains	2,	41-42	2020
12	Temperature Effect of Chemical Bath Deposition (CBD) to Fabrication and Characterization of Zinc Oxide Nanorods Thin Films Based Gas Sensing: Ethanol	Journal of Physics: Conference Series	1445	(1), 012017	2020
13	A computational theory study of surface plasmon resonance (SPR) porcine gelatine detected sensor based-on	Journal of Physics: Conference Series	1445	(1), 012005	2020



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	Fe ₃ O ₄ nanoparticle—CNT with ATR method in kretschmann configuration				
14	Mechanical and Optical Properties of Thin Film Titanium Nitride (TiN) Resulting from Deposition DC Sputtering	Proceeding International Conference on Science and Engineering	2	17 - 21	2019
15	Facile preparation of carbon nanofiber from banana peel waste	Materials Today: Proceedings	13,	165-168	2019
16					

Involvement in the Professional Associations:

Organization name	Specific role	Level	Period
Physical Society (PSI)	Member	National	2011
Nano Citizen Indonesia (MNI)	Member	National	2018 – Present
Ikatan Ilmuwan Indonesia (I3)	Member	International	2023