

Name	Dr. rer. nat. Abdurrouf, S.Si., M.Si.		
Position	Associate Professor		
Scopus ID	12646267900		
Link google scholar	https://scholar.google.com/citations?hl=en&user=qjuuZ-4AAAAJ		
Academic Career	Doctoral Degree	University	Year
	Atomic, Molecular, and Laser Physics	Univ. Bielefeld, Jerman	2004 – 2007
	Master degree	University	Year
	Material Physics	Institut Teknologi Bandung	1997 – 2000
	Undergraduate degree	University	Year
	Material Physics	Universitas Brawijaya	1989 – 1994
Employment	Position	Employer	Period
	Lecturer	FMIPA	1994
Research and development projects over the last 5 years	Name of project or research focus	Funding Sources/amount of financing	Period
	Pemodelan transformasi fasa untuk optimasi peningkatan karakter mekanik titanium murni pada proses plasma nitriding (Sebagai Ketua)	Hibah Lektor FMIPA / 50	2020
	Implementasi algoritma metode filter pada sistem multi elektron: studi kasus atom helium (Sebagai Anggota)	Word Class Research UB / 100	2020
	Pemodelan kristal satu dimensi dengan menggunakan potensial Coulomb dan algoritma metode filter	DPP-SPP / 9.9	2020
	Pemodelan transformasi fasa untuk optimasi peningkatan karakter mekanik titanium murni pada proses plasma nitriding (Sebagai Ketua)	Hibah Lektor FMIPA / 50	2019
	Implementasi algoritma metode filter pada sistem multi elektron: studi kasus atom helium (Sebagai Anggota)	Word Class Research UB / 100	2019
	Pemodelan kristal satu dimensi dengan menggunakan potensial	DPP-SPP / 9.9	2019

	Kronig-Penney dan algoritma metode filter (Sebagai Ketua)		
	Pemodelan kristal satu dimensi dengan menggunakan potensial osilator harmonis dan algoritma metode filter (Sebagai Ketua)	DPP-SPP / 9.9	2018
	Uji Performansi Tungku Gasifikasi Aliran Udara Paksa dengan Pra-Pemanasan dan Pembakaran Secara Vortex (Sebagai Ketua)	DPP-SPP / 9.9	2017
	Studi Struktur Elektronik dan Sifat Optik Germanene (Sebagai Ketua)	Ristek-Dikti-Fundamental / 50	2016
	Flow Battery Elektrolit Tunggal Sebagai Alternatif Penyimpan Energi	DPP-SPP / 14.4	2016
	Partners, if applicable		
Published Books	Title	Publisher	Year
	Penyelesaian Soal ON MIPA-PT Bidang Fisika Tahun 2014	UB Press	2015
	Penyelesaian Soal ON MIPA-PT Bidang Fisika Modern dan Mekanika Kuantum	UB Press	2015
	Penyelesaian Soal ON MIPA-PT Bidang Elektrodinamika	UB Press	2014
	Penyelesaian Soal ON MIPA-PT Bidang Termodinamika dan Fisika Statistik	UB Press	2014
	Penyelesaian Soal ON MIPA-PT Bidang Mekanika Klasik	UB Press	2014
	Penyelesaian Soal OSN Pertamina Bidang Fisika	UB Press	2013
	Kiat Juara OSN Pertamina Fisika	UB Press	2013
	Observing molecular alignment by using high harmonic generation	UB Press	2011
	Panduan OSN Fisika SMA	UB Press	2010
Industry collaborations over the last 5 years	Project Titles	Partners	Period
Important publications	Selected recent publications from a total of approx. (give total number): 21		

<p>over the last 5 years</p>	<p>1. J.M Windajanti, D.J.D.H. Santjojo, M.A. Pamungkas, Abdurrouf, 2020, Intensifying of Selective Nitrogen Plasma Species Using Rectangular Hollow Cathode in 2 MHz RF-DC Plasma, Romanian Journal of Physics, 66 (9-10), https://rjp.nipne.ro/2020_65_9-10/RomJPhys.65.502.pdf</p>
	<p>2. MA Pamungkas, Husain, AK Shobirin, T Sugiono, & Abdurrouf, 2020, The Electronic Structure of Ga-Doped Hydrogen-Passivated Germanene: First Principle Study, Key Engineering Materials, 833 (1), 157-161, https://doi.org/10.4028/www.scientific.net/KEM.833.157</p>
	<p>3. MA Pamungkas, A.E. Ghozali, Abdurrouf, 2020, Effects of Boron Nitride on the optical properties of Silicene: density functional theory calculations, Journal of Physics: Conf.Ser., 1568 (1), 012005, doi:10.1088/1742-6596/1568/1/01200</p>
	<p>4. MA Pamungkas, F. Sari, Abdurrouf, M.Nurhuda, 2020, Magnetic properties of Ga-doped and As-doped hydrogenated silicene: Density Functional Theory (DFT) calculations, Journal of Physics: Conf. Ser., 1572 (1), 012043, doi:10.1088/1742-6596/1572/1/012043</p>
	<p>5. Abdurrouf, MA Pamungkas, & M Nurhuda, 2020, The Energy Spectrum of Imperfect Kronig-Penney Model, Ijitee, 9 (3S), 205-208, DOI: 10.35940/ijitee.C1045.0193S20</p>
	<p>6. J.M. Windajanti, Abdurrouf, D.J.D.H. Santjojo,, and M. A. Pamungkas, 2020, The Influence of Hollow Cathode Geometry and N2-H2 Gas Mixture on the 2 MHz RF-DC Plasma Species and Density, IOP Conf. Ser. Mater. Sci. Eng, 833 (1), 012097, doi:10.1088/1757-899X/833/1/012097</p>
	<p>7. Abdurrouf, MA Pamungkas, Wiyono, & M Nurhuda, 2020, Implementation of filter method to solve the Kronig-Penney model, AIP Conf. Proc, 2234 (1), 040001, https://doi.org/10.1063/5.0008147</p>
	<p>8. S Maryanto, RPH Sari, R Uluwiyah, Abdurrouf, 2019, Preliminary Non Linear Analysis of Seismic Events Associated with the Hydrothermal of Cangar, Batu, East Java, Test: Engineering and Management , 81, 1638–1645.</p>
	<p>9. MA Pamungkas, C Nisa, I Istiroyah, A Abdurrouf, 2019, Nitrogenation of Amorphous Silicon: Reactive Molecular Dynamics Simulations, The Journal of Pure and Applied Chemistry Research , 8 (3), 197-207, DOI: 10.21776/ub.jpacr.2019.008.03.487</p>
	<p>10. Abdurrouf, M. Nurhuda, Wiyono , 2019, Modelling one-dimensional crystal by using harmonic oscillator potential, IOP Conf. Ser.: Materials Science and Engineering, 546, 1, 052001, doi:10.1088/1757-899X/546/5/052001</p>

	11. Abdurrouf , 2019, The rule of radius averaging in hydrogen atom, IOP Conf. Ser.: Materials Science and Engineering, 546, 1, 052002, doi:10.1088/1757-899X/546/5/052002
	12. R. Uluwiyah, S. Maryanto, Abdurrouf, 2019, Spatio-Temporal Changes on Spectra of Hydrothermal System at Arjuno-Welirang Volcano Complex, Indonesia, Journal of Research in Environmental and Earth Science, 5, 1, 10-15,
	13. Masruroh, D J D H Santjojo, Abdurrouf, M A Abdillah, M C Padaga, S P Sakti, 2019, Effect of Electron Density and Temperature in Oxygen Plasma Treatment of Polystyrene Surface, IOP Conference Series: Materials Science and Engineering, 515,1, 012061, doi:10.1088/1757-899X/515/1/012061
	14. E. T. P. Adi, Abdurrouf, Arinto Y. P. Wardoyo, 2019, A model of particulate matter dispersion from unfiltered air conditioner indoor, Journal of Physics: Conf. Series, 1153, 1, 012107, doi:10.1088/1742-6596/1153/1/012107
	15. M.A. Pamungkas, D. A., Setyowati, Abdurrouf, 2018, Optical properties of Ga-doped silicene and as-doped silicene: First principle calculations, AIP Conference Proceedings, 2021, 1, 050014 , https://doi.org/10.1063/1.5062764
	16. Abdurrouf, 2018, Determination of rotational temperature from molecular wave-functions, AIP Conference Proceedings, 2021, 1, 040006, https://doi.org/10.1063/1.5062750
	17. MA Pamungkas, K Sobirin, Abdurrouf , 2018, Effects of doping Na and Cl atom on electronic structure of silicene: Density functional theory calculation, AIP Conference Proceedings, 1948, 1, 020001, doi: 10.1063/1.5030880
	18. M. Nurhuda, Abdurrouf, 2017, Filter method without boundary-value condition for simultaneous calculation of eigenfunction and eigenvalue of a stationary Schrödinger equation on a grid, Phys. Rev. E, 96, 3, 033302, DOI : 10.1103/PhysRevE.96.033302
	19. Arinto Y. P. Wardoyo, Arif Budianto, Abdurrouf, 2017, Filtration of Submicron Particles From Motorcycle Emission Using a DC Low Electrostatic Filter, IJAER, 12, 08, 1725-1728,
	20. J M Windajanti, DJDH Santjojo, Abdurrouf, 2017, Low-Temperature Nitriding of Pure Titanium by using Hollow Cathode RF-DC Plasma, IOP Conf. Ser.: Mater. Sci. Eng., 202, 1, 012026, doi:10.1088/1757-899X/202/1/012026
	21. J.M. Windajanti, D.J.D.H. Santjojo, Abdurrouf, 2017, Microstructure and phase transformation of pure titanium during nitriding process by high density plasma, Jusami, 8, 3, 116-122, DOI: 10.17146/jsmi.2017.18.3.4115

Activities in specialist bodies over the last 5 years	Organization	Role	Period
	Physics Society of Physics	Member	2017 - Now