

<b>Name</b>	Dr. Eng. Masruroh, M.Si.		
<b>Position</b>	Associate Professor		
<b>Scopus ID</b>	12802967200		
<b>Link google scholar</b>	<a href="https://scholar.google.com/citations?hl=en&amp;user=cVVR4foAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=cVVR4foAAAAJ</a>		
<b>Academic Career</b>	Doctoral Degree	University	Year
	Material Sciences & Energy Engineering	Yamagata University, Japan	2007
	Master degree	University	Year
	Physics	ITB, Bandung	2002
	Undergraduate degree	University	Year
	Physics	Universitas Brawijaya, Malang	1999
<b>Employment</b>	Position	Employer	Period
	Lecturers	FMIPA	2002
<b>Research and development projects over the last 5 years</b>	Name of project or research focus	Funding Sources/amount of financing (million rupiah)	Period
	Pelapisan Bahan Fungsional Stearic Acid Pada Sensor QCM untuk Diagnostik Cepat Salmonella ( <b>Ketua</b> )	PUPT Desentralisasi Tahun ke-1 / 190	2016
	Pelapisan Bahan Fungsional Stearic Acid Pada Sensor QCM untuk Diagnostik Cepat Salmonella ( <b>Ketua</b> )	PUPT Desentralisasi Tahun ke-2 / 100	2017
	Pengembangan bahan fungsional Lapisan Tipis Karbon dari Olahan Tempurung Kelapa Yang dipalikasikan sebagai Matrik Pada Sensor QCM Untuk Deteksi Protein Susu Sapi (PSS 208 kds) ( <b>Ketua</b> )	RISTEKDIKTI/ Sentralisasi HIKOM (Tahun ke-1) / 105	2017
	Sistem spektroskopi optik untuk identifikasi plasma ( <b>ketua</b> )	DPP/SPP 2017 / 9.9	2017
	Pengembangan bahan fungsional Lapisan Tipis Karbon dari Olahan Tempurung Kelapa Yang dipalikasikan sebagai Matrik Pada Sensor QCM Untuk Deteksi Protein Susu Sapi (PSS 208 kds) ( <b>Ketua</b> )	RISTEKDIKTI/ Sentralisasi HIKOM (Tahun ke 2) / 110	2018
	Pengembangan bahan fungsional Lapisan Tipis Karbon dari Olahan Tempurung Kelapa Yang	RISTEKDIKTI/ Sentralisasi HIKOM (Tahun ke 3) / 193	2019

	dipalikasikan sebagai Matrik Pada Sensor QCM Untuk Deteksi Protein Susu Sapi (PSS 208 kds) <b>(Ketua)</b>		
	Deteksi xanthorizol pada ramuan jamu tradisional temulawak berbasis sensor quartz crystal microbalance (qcm) dengan lapisan bahan fungsional logam phthalocyanine <b>(ketua)</b>	RISTEKDIKTI/ Desentralisasi LPPM UB (Tahun ke-1) Ketua / 144	2019
	Efektifitas pulsa DC Sputtering pada deposisi lapisan Karbon berpola <b>(Ketua)</b>	DIPA-MIPA Universitas Brawijaya / 25	2019
	Deteksi xanthorizol pada ramuan jamu tradisional temulawak berbasis sensor quartz crystal microbalance (qcm) dengan lapisan bahan fungsional logam phthalocyanine <b>(ketua)</b>	RISTEKDIKTI/ Desentralisasi LPPM UB (Tahun ke-1) Ketua / 134	2020
	Efektifitas pulsa DC Sputtering pada deposisi lapisan Karbon berpola <b>(Ketua)</b>	DIPA-MIPA Universitas Brawijaya / 25	2020
	Partners, if applicable		
<b>Published Books</b>	Title	Publisher	Year
	Mekanika	UB Press	2017
<b>Industry collaborations over the last 5 years</b>	Project Titles	Partners	Period
<b>Patents and proprietary rights</b>	Titles		Year
<b>Important publications over the last 5 years</b>	Selected recent publications from a total of approx. (give total number): 20		
	1. (Masruroh, 2020, Effects of ZnO nanoparticles on the antifungal performance of Fe <sub>3</sub> O <sub>4</sub> /ZnO nanocomposites prepared from natural sand, Advances in Natural Sciences: Nanoscience and Nanotechnology, 11(4): 045004 (DOI: ))		
	2. (Masruroh, 2020, Influence of the Nitrogen exposure time to the plasma treatment on the wettability of polystyrene surfaces, Journal of Physics: Conference Series, 1528(1): 012007 (DOI: ))		
	3. (Masruroh, 2020, Impedance Spectrum of QCM Sensor Coated with 18-Crown-6-Ether Solved in THF, Chloroform and Toluene, IOP Conference Series: Materials Science and Engineering, 833(1): 012091 (DOI: ))		

	4. (Masruroh, 2020, Green synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles based on biosurfactant Saccharum officinarum extract, AIP Conference Proceedings, 2251: 040035 (DOI: ))
	5. (Masruroh, 2020, Morphology, porosity, and biodegradation of PVA/CS/PEG/HaP nanofiber composites as scaffold in bone tissue engineering, AIP Conference Proceedings, 2231: 2678 (DOI: ))
	6. (Masruroh, 2020, Plasma intensification in 2 MHz RF glow discharge in carbon film plasma sputtering deposition by means of a hollow cathode, Journal of Physics: Conference Series, 1528(1): 012008 (DOI: ))
	7. (Masruroh, 2020, Swelling Effect Observation of the Copper Phthalocyanine Layer on QCM and Its Effect on Surface Roughness and Morphology Changes, IOP Conference Series: Materials Science and Engineering, 833(1): 012082 (DOI: ))
	8. (Masruroh, 2020, Influence of electrolyte concentration on static and dynamic Lead-Acid battery, Journal of Physics: Conference Series, 1595(1): 012012 (DOI: ))
	9. (Masruroh, 2020, Optical Emission Spectroscopy Study of the Electron Temperature and Electron Density Dependence on the Pressure Chamber for the Carbon Deposition Produced by Argon Plasma Sputtering, IOP Conference Series: Materials Science and Engineering, 833(1): 012083 (DOI: ))
	10. (Masruroh, 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: ))
	11. (Masruroh, 2019, Stability of Polystyrene Film Surface Wettability Modified Using Oxygen Plasma, Materials Today: Proceedings, 13: 24-29 (DOI: ))
	12. (Masruroh, 2019, Solvent Effect on Viscoelastic Behaviour and Morphology of Polyaniline Coating at QCM Sensor, Journal of Physics: Conference Series, 1417(1): 012002 (DOI: ))
	13. (Masruroh, 2018, The effect of molecular weight on the surface wettability of polystyrene treated with nitrogen plasma, Mater. Sci. Eng., 432 (DOI: ))
	14. (Masruroh, 2018, The Effectivity of Haloalkane (CH <sub>2</sub> FCF <sub>3</sub> ) Plasma in Selective Etching of a Quartz Crystal Microbalance Biosensor, IEEE (DOI: ))
	15. (Masruroh, 2017, Plasma power effect on the surfaces of a quartz crystal during etching using tetrafluoroethane gas, International Journal of Technology (IJTECH), 8: 1525-1532 (DOI: ))
	16. (Masruroh, 2017, Effect of uv radiation duration and molecular weight to hydrophobicity and surface roughness of polystyrene coating on qcm sensor, Jurnal Teknologi, 79(3): 61-67 (DOI: ))
	17. (Masruroh, 2017, Low-Cost Contact Angle Measurement System for QCM sensor, TELKOMNIKA, 15(2) (DOI: ))

	18. (Masruroh, 2017, The Effect of Substrate Temperature on Surface Modification of Polystyrene by using Nitrogen Plasma, IOP Conference series, 202 (DOI: ))		
	19. (Masruroh, 2016, KOH Wet Etching Technique for Patterned Formation on Surface of Quartz Crystal with AuPd, IEEE (DOI: ))		
	20. (Masruroh, 2016, Microstructure and crystallization of Chemically Derived PZT Thin Film Using Controlled Solvent Composition and Rotational Speed, IEEE (DOI: ))		
<b>Activities in specialist bodies over the last 5 years</b>	<b>Organization</b>	<b>Role</b>	<b>Period</b>
	Himpunan Fisika Indonesia (HFI)	Member	2014-now
	Material Research Society Indonesia	Member	2018-now