

<b>Name</b>	Prof. Drs. Arinto Yudi Ponco Wardoyo, M.Sc., Ph.D.		
<b>Position</b>	Professor		
<b>Scopus ID</b>	14625587100		
<b>Link google scholar</b>	<a href="https://scholar.google.com/citations?hl=en&amp;user=JnPjP04AAAAJ">https://scholar.google.com/citations?hl=en&amp;user=JnPjP04AAAAJ</a>		
<b>Academic Career</b>	Doctoral Degree	University	Year
	Environmental Physics	QUT Brisbane Australia	2007
	Master degree	University	Year
	Physics	UTAS Hobart Australia	1995
	Undergraduate degree	University	Year
	Instrumentation Physics	Universitas Gadjah Mada	1988
<b>Research and development projects over the last 5 years</b>	Name of project or research focus	Funding Sources/amount of financing (in million rupiah)	Period
	Sistem Purifikasi Udara Berdasarkan Thermal Electrostatic Untuk Mencegah Penyebaran Bio Particulat	Penelitian Dasar Unggulan Perguruan Tinggi / 133.2	2020
	Pengembangan sistem monitoring partikulat berbahaya dari abu vulkanik secara real-time (II)	Penelitian Dasar / 112.6	2020
	Karakterisasi Emisi Dari Penambahan zat aditif pada bahan bakar bensin untuk kendaraan bermotor dan dampak kesehatannya (II)	Hibah Guru Besar / 100	2020
	Pengembangan sistem monitoring partikulat berbahaya dari abu vulkanik secara real-time	Penelitian Dasar / 112.5	2019
	Desain Filter partikulat berbasis elektrostatis arus DC bertegangan tinggi pada sistem pembuangan kendaraan bermotor	Penelitian Dasar Unggulan Perguruan Tinggi / 165.6	2019
	Karakterisasi Emisi Dari Penambahan zat aditif pada bahan bakar bensin untuk kendaraan bermotor dan dampak kesehatannya	Hibah doctor / 50	2019
	Desain <i>Reheated</i> Sistem <i>Filtering</i> Pada Kendaraan Bermotor (Tahap 2)	Penelitian Kompetensi Nasional / 100	2018
	Pengembangan Jaringan <i>Real-Time</i>	Penelitian Unggulan	2017

	<i>Multi-Source Energy Metering</i> untuk Mendukung Ketahanan Energi Berbasis Sistem Tertanam	Perguruan Tinggi / 199.9	
	Desain <i>Reheated</i> Sistem <i>Filtering</i> Pada Kendaraan Bermotor (Tahap 1)	Penelitian Kompetensi Nasional / 100	2017
	Studi Dampak Emisi Partikel dari Kendaraan Bermotor (Tahap 3)	Penelitian Unggulan Perguruan Tinggi / 395	2017
	Studi Dampak Emisi Partikel dari Kendaraan Bermotor (Tahap 2)	Penelitian Unggulan Perguruan Tinggi / 225	2016
	Partners, if applicable		
<b>Published Books</b>	Title	Publisher	Year
	Sistem Filtrasi Partikulat Kendaraan Bermotor (ISBN : 9789799039880)	Karunia	2018
	Polusi Udara: Pembakaran Biomassa (ISBN : 9789799039873)	Karunia	2017
	Emisi Partikulat Kendaraan Bermotor dan Dampak Kesehatan (ISBN : 9786024320331)	UB Press	2016
<b>Industry collaborations over the last 5 years</b>	Project Titles	Partners	Period
<b>Patents and proprietary rights</b>	Titles		Year
	Teknologi Filter Partikulat Berbasis E;lektrostatik Tegangan Rendah DC Untuk Sistem Pembuangan Emisi Kendaraan Bermotor		2017
	Filter Partikulat PM0.1, PM2.5 dan PM10 Berbasis Reheated Particulate Untuk Sistem Pembuangan Emisi Kendaraan Bermotor		2017
<b>Important publications over the last 5 years</b>	Selected recent publications from a total of approx. (give total number): 36		
	(authors, year, title, name of journal, vol (issue): page number (DOI: if available))		
	1. (Arinto Yudi Ponco Wardoyo, 2020, The association between the diesel exhaust particle exposure from bus emission and the tubular epithelial cell deformation of rats, Environmental Science, Pollution Research, 27: 23073-23080, (DOI: ))		
	2. (Arinto Yudi Ponco Wardoyo, 2020, Characterization of Volcanic Ash Element From The 2015 Eruption of Bromo and Raung Volcanoes, Indonesia, Polish Journal of Environmental Studies, 29(2), (DOI: ))		
	3. (Arinto Yudi Ponco Wardoyo, 2020, Optimization of PM2.5 Measurement System Using NOVA SDS011 Sensor, Journal of Physics Conference Series (JPCS), 1428, (DOI: ))		
4. (Arinto Yudi Ponco Wardoyo, 2019, Developing A Low Cost Particulate			

	Matter Measurement System , IOP Conf. Series: Earth and Environmental Science, 391, (DOI: ))
	5. (Arinto Yudi Ponco Wardoyo, 2019, Biomass Burning; Ultrafine Particles, Concentration, and Organ Effect, Journal of Physics Conference Series (JPCS), , (DOI: ))
	6. (Arinto Yudi Ponco Wardoyo, 2019, valuating the performance of a high voltage electrostatic coarse particulate filter in motorcycle exhaust system: Laboratory static testing , AIP Conference Proceedings, , (DOI: ))
	7. (Arinto Yudi Ponco Wardoyo, 2019, valuating the performance of a high voltage electrostatic coarse particulate filter in motorcycle exhaust system: Laboratory static testing , AIP Conference Proceedings, , (DOI: ))
	8. (Arinto Yudi Ponco Wardoyo, 2019, The potency of java plum (Syzgium cumini) fruit extract as free radical scavenging in cigarette smoke , AIP Conference Proceedings, , (DOI: ))
	9. (Arinto Yudi Ponco Wardoyo, 2019, Developing of Particulate Matter Filtering System for Motorcycle by Reusing Engine Thermal Energy Emission , IOP Conference Series: Materials Science and Engineering, , (DOI: ))
	10. (Arinto Yudi Ponco Wardoyo, 2019, Acquisition of voltage and current signals using a single board computer for online monitoring of powers , IOP Conference Series: Materials Science and Engineering, , (DOI: ))
	11. (Arinto Yudi Ponco Wardoyo, 2019, A model of particulate matter dispersion from unfiltered air conditioner indoor , Journal of Physics: Conference Series, , (DOI: ))
	12. (Arinto Yudi Ponco Wardoyo, 2019, The effects of transfluthrin as the active substance of one push aerosol repellent on organs damage of mice (Mus musculus) (Case study of lung, liver, bloods, and Kidney), International Journal of Geotechnique, Construction Materials and Environment (GEOMATE), , (DOI: ))
	13. (Arinto Yudi Ponco Wardoyo, 2019, Developing fine particle filtering system for motorcycle exhaust using coco fibers , International Journal of Geotechnique, Construction Materials and Environment (GEOMATE), , (DOI: ))
	14. (Arinto Yudi Ponco Wardoyo, 2019, Developing Reheated Motorcycle Exhaust For PM2.5 Emission, International Journal of Geotechnique, Construction Materials and Environment (GEOMATE), , (DOI: ))
	15. (Arinto Yudi Ponco Wardoyo, 2019, How exposure to ultrafine and fine particles of car smoke can alter erythrocyte forms of male mice , Polish Journal of Environmental Studies, , (DOI: ))
	16. (Arinto Yudi Ponco Wardoyo, 2019, Developing and characterization of an ultrafine filter made of banana leaf and water hyacinth to reduce motorcycle emission , Applied Ecology and Environmental Research, , (DOI: ))
	17. (Arinto Yudi Ponco Wardoyo, 2019, PM0.1 Dispersion Model for Indoor

	Air Conditioner , ISSIMM 2018 - 3rd International Seminar on Sensors, Instrumentation, Measurement and Metrology, Proceeding, , (DOI: ))
	18. (Arinto Yudi Ponco Wardoyo, 2019, Developing an AC Low Voltage Electrostatic Filter For Motorcycle Exhaust System in Reducing Ultrafine Particle Emission, ISSIMM 2018 - 3rd International Seminar on Sensors, Instrumentation, Measurement and Metrology, Proceeding, , (DOI: ))
	19. (Arinto Yudi Ponco Wardoyo, 2018, The automatic transmission motorcycle ultrafine particles PM0.1 effects in the alveolar enlargement, depleted of septum alveolus, and lung inflammation, Journal of Biological Researches, 24(1), (DOI: ))
	20. (Arinto Yudi Ponco Wardoyo, 2018, Developing motorcycle particulate filtering system based on different method, AIP Conference Proceedings, , (DOI: ))
	21. (Arinto Yudi Ponco Wardoyo, 2018, Exposures to ultrafine and fine particles contents of car smoke alter erythrocyte form of male mice, Polish Journal of Environmental Studies, 29, (DOI: ))
	22. (Arinto Yudi Ponco Wardoyo, 2018, Investigating Natural Transition Metal Coordination An Thocyanin Complex in Java Plump (Syzygium Cumini) Fruit as Free Radical Scavenging, Rasayan Journal of Chemistry, 11(3): 1193-1203, (DOI: ))
	23. (Arinto Yudi Ponco Wardoyo, 2018, Association of diesel exhaust particle exposure with erythrocytes deformation of male mice , Applied Ecology and Environmental Research, 16(5): 5583-5593, (DOI: ( <a href="http://dx.doi.org/10.15666/aeer/1605_55835593">http://dx.doi.org/10.15666/aeer/1605_55835593</a> )))
	24. (Arinto Yudi Ponco Wardoyo, 2018, Influence of smoking rate on ultrafine particle emission of cigarette smoke , Journal of Biological Researches, 23(2): 90-94, (DOI: ( <a href="http://doi.org/10.23869/bphjbr.23.2.20197">http://doi.org/10.23869/bphjbr.23.2.20197</a> )))
	25. (Arinto Yudi Ponco Wardoyo, 2018, Comparison of lung damages due to petrol and diesel car smoke exposures: Histological study , International Journal of Geotechnique, Construction Materials and Environment (GEOMATE), 15(49): 124-129, (DOI: ( <a href="https://doi.org/10.21660/2018.49.3718">https://doi.org/10.21660/2018.49.3718</a> )))
	26. (Arinto Yudi Ponco Wardoyo, 2018, Varied dose exposures to ultrafine particles in the motorcycles smoke cause kidney cell damages in male mice , Toxicology Reports (TR), 5 (2018): 383-389, (DOI: ( <a href="https://doi.org/10.1016/j.toxrep.2018.02.014">https://doi.org/10.1016/j.toxrep.2018.02.014</a> )))
	27. (Arinto Yudi Ponco Wardoyo, 2017, A study of the correlation between ultrafine particle emissions in motorcycle smoke and mice erythrocyte damages , Experimental and Toxicologic Pathology (ETP), 69 (2017): 649-655, (DOI: ( <a href="https://doi.org/10.1016/j.etp.2017.06.003">https://doi.org/10.1016/j.etp.2017.06.003</a> )))
	28. (Arinto Yudi Ponco Wardoyo, 2017, An observation of histological evidence on internal organ damages in mice caused by repeated exposures to motorcycle emissions , AIP Conference Proceedings, 1844(2017): 020007-1

	– 020007-11, (DOI: ( <a href="https://doi.org/10.1063/1.4983418">https://doi.org/10.1063/1.4983418</a> )))		
	29. (Arinto Yudi Ponco Wardoyo, 2017, Filtration of submicron particles from motorcycle emission using a DC low electrostatic filter , International Journal of Applied Engineering Research (IJAER), 12(8): 1725-1728, (DOI: ( <a href="https://www.republication.com/ijaer17/ijaerv12n8_35.pdf">https://www.republication.com/ijaer17/ijaerv12n8_35.pdf</a> )))		
	30. (Arinto Yudi Ponco Wardoyo, 2017, Developing reheated filter of motorcycle exhaust filter for reducing PM2.5 emissions , Institute of Electrical and Electronics Engineers (IEEE) Proceedings, (2017): 42-45, (DOI: ( <a href="https://doi.org/10.1109/ISSIMM.2017.8124258">https://doi.org/10.1109/ISSIMM.2017.8124258</a> )))		
	31. (Arinto Yudi Ponco Wardoyo, 2017, A DC low electrostatic filtering system for PM2.5 motorcycle emissions , Institute of Electrical and Electronics Engineers (IEEE) Proceedings, (2017): 51-54, (DOI: ( <a href="https://doi.org/10.1109/ISSIMM.2017.8124260">https://doi.org/10.1109/ISSIMM.2017.8124260</a> )))		
	32. (Arinto Yudi Ponco Wardoyo, 2017, Timing management for acquisitions of AC voltage and current signals using an AVR microcontroller based system , Institute of Electrical and Electronics Engineers (IEEE) Proceedings, (2017): 1-4, (DOI: ( <a href="https://doi.org/10.1109/ISSIMM.2017.8124250">https://doi.org/10.1109/ISSIMM.2017.8124250</a> )))		
	33. (Arinto Yudi Ponco Wardoyo, 2016, Developing particulate thin filter using coconut fiber for motor vehicle emission , AIP Conference Publishing, 1719(1):030043-1 - 030043-4, (DOI: ( <a href="https://doi.org/10.1063/1.4943738">https://doi.org/10.1063/1.4943738</a> )))		
	34. (Arinto Yudi Ponco Wardoyo, 2016, Measurements of PM2.5 motor emission concentrations and the lung damages from the esposure mice , Institute of Electrical and Electronics Engineers (IEEE) Proceedings, (2016): 99-103, (DOI: ( <a href="https://doi.org/10.1109/ISSIMM.2016.7803731">https://doi.org/10.1109/ISSIMM.2016.7803731</a> )))		
	35. (Arinto Yudi Ponco Wardoyo, 2016, DC low electrostatic voltage particulate filter: PM0.1 and PM2.5 emission efficiency measurement , Institute of Electrical and Electronics Engineers (IEEE) Proceedings, (2016): 115-118, (DOI: ( <a href="https://doi.org/10.1109/ISSIMM.2016.7803735">https://doi.org/10.1109/ISSIMM.2016.7803735</a> )))		
	36. (Arinto Yudi Ponco Wardoyo, 2016, The influence of motorcycles smokes to mice organs, BaSIC Proceeding, 6(2016): 186-190 , (DOI: ))		
<b>Activities in specialist bodies over the last 5 years</b>	<b>Organization</b>	<b>Role</b>	<b>Period</b>
	Himpunan Fisika Indonesia	Member	2015-now