Name	Ir. Dionysius Joseph Djoko Herry Santjojo, M.Phil., Ph.D		
Position	Assistant Professor		
Scopus ID	6506123737		
Link google scholar	https://scholar.google.com/citations?hl=en&user=yydgbuUAAAAJ		
Academic Career	Doctoral Degree	University	Year
	Physics	Murdoch University Western Australia	2002
	Master degree	University	Year
	Chemistry	Murdoch University Western Australia	1996
	Undergraduate degree	University	Year
	Electrical Engineering	Universitas Brawijaya	1988
Employment	Position	Employer	Period
	Lecturer	FMIPA	1990
Research and development projects over the last 5 years	Name of project or research focus	Funding Sources/amount of financing (in million rupiah)	Period
	Perancangan Evaporator Vakum Rotasi Untuk Memisahkan Titanium Oksida (TiO2) Dari Pelarut Organik	DPP/SPP / 6.6	2020
	Pengembangan Sistem Plasma Dielectric Barrier Discharge Untuk Perbaikan Meningkatkan Karakter Mekanik Hydroxyapatite Sebagai Komponen Pengisi Tulang	Hibah Doktor / 25	2020
	Pemanfaatan Plasma Nitrogen/Atmosferik untuk Sterilisasi Udara dan Peralatan Medis dari Virus Corona-19	PD (PKN) / 98	2020
	Otomasi dan Optimasi Sistem Evaporator Vakum untuk Deposisi Lapisan Tipis	DPP/SPP / 9.9	2019
	Pengembangan Sistem Plasma Dielectric Barrier Discharge Untuk Perbaikan Meningkatkan Karakter Mekanik Hydroxyapatite Sebagai Komponen Pengisi Tulang	Hibah Doktor / 25	2019
	Sintesis Nano-Karbon Fungsional Pada Permukaan QCM Untuk	PD (PKN) / 94	2019

	Implementasi Sensor Aroma Berbasis Sensor Array Virtual		
	Perancangan Sistem Pemanas pada Evaporator Vakum untuk Deposisi Lapisan Tipis Berbagai Bahan	DPP/SPP / 9	2018
	Modifikasi Bahan Fungsional Znpc Pada Aplikasi Qcm-Immunosensor Untuk Perangkat Diagnosa Cepat Portabel Dengan Menggunakan Plasma Reaktif	PUPT (UB) / 100	2017
	Development of Plasma Oxidation System for Industries and Medical Applications	JSPS-DGHE / 150 + 2.5 mill Yen	2017
	Modifikasi Bahan Fungsional Znpc Pada Aplikasi Qcm-Immunosensor Untuk Perangkat Diagnosa Cepat Portabel Dengan Menggunakan Plasma Reaktif	PUPT / 240	2016
	Development of Plasma Oxidation System for Industries and Medical Applications	JSPS-DGHE / 150 + 2.5 mill Yen	2016
	Partners, if applicable		
Published Books	Title	Publisher	Year
Industry collaborations over the last 5 years	Project Titles	Partners	Period
Patents and proprietary rights	Titles		Year
Important publications over the last 5 years	Selected recent publications from a total of approx. (give total number): 34		
	1. (Dionysius Joseph Djoko Herry Santjojo, 2020, The effect of LFG plasma sputtering power on hardness of carbon thin films on SKD11 steel using target material from battery carbon rods, Eastern-European Journal of Enterprise Technologies, (DOI:))		
	2. (Dionysius Joseph Djoko Herry Santjojo, 2020, Intensifying of selective nitrogen plasma species using rectangular hollow cathode in 2 mhz rf-dc plasma, Romanian Journal of Physics, (DOI:))		
	3. (Dionysius Joseph Djoko Herry Santjojo, 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, (DOI:))
	4. (Dionysius Joseph Djoko Herry Santjojo, 2020, nfluence of the Nitrogen exposure time to the plasma treatment on the wettability of polystyrene surfaces, Journal of Physics: Conference Series, (DOI:))
	5. (Dionysius Joseph Djoko Herry Santjojo, 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, (DOI:))
	6. (Dionysius Joseph Djoko Herry Santjojo, 2020, The effect of delay time processing on exposure index in X-ray examination, AIP Conference Proceedings, (DOI:))
	7. (Dionysius Joseph Djoko Herry Santjojo, 2020, The effect of KCl solution ionic strength to QCM sensor response coated with PVC-polystyrene-crown ether, AIP Conference Proceedings, (DOI:))
	8. (Dionysius Joseph Djoko Herry Santjojo, 2020, Wettability comparison of argon and oxygen plasma treatment for coconut fiber with 2 MHz RF plasma system, AIP Conference Proceedings, (DOI:))
	9. (Dionysius Joseph Djoko Herry Santjojo, 2020, Morphology, porosity, and biodegradation of PVA/CS/PEG/HaP nanofiber composites as scaffold in bone tissue engineering, AIP Conference Proceedings, (DOI:))
	10. (Dionysius Joseph Djoko Herry Santjojo, 2019, The potency of java plum (Syzgium cumini) fruit extract as free radical scavenging in cigarette smoke, AIP Conference Proceedings, (DOI:))
	11. (Dionysius Joseph Djoko Herry Santjojo, 2019, Investigation of paramagnetic character in the complex of akway bark (Drimys piperita Hook f.) as a radical scavenger, AIP Conference Proceedings, (DOI:))
	12. (Dionysius Joseph Djoko Herry Santjojo, 2019, The Role of DC Biased Plasma Treatment of Polystyrene on the Formation of the C≡N Functional Group Controlling Its Hydrophobicity, IOP Conference Series: Materials Science and Engineering, (DOI:))
	13. (Dionysius Joseph Djoko Herry Santjojo, 2019, Nitriding of Pure Titanium by High Density Plasma Using H2-N2 Gas Mixture at Low Temperature, International Journal of GEOMATE, (DOI:))
	14. (Dionysius Joseph Djoko Herry Santjojo, 2019, Optical emission spectroscopy studies during nitrogen plasma of polystyrene surfaces modification, International Journal of GEOMATE, (DOI:))
	15. (Dionysius Joseph Djoko Herry Santjojo, 2019, Deposition of Carbon Thin Film by Means of a Low-Frequency Plasma Sputtering Using Battery Carbon Rods as a Target, IOP Conference Series: Materials Science and Engineering, (DOI:))

	16. (Dionysius Joseph Djoko Herry Santjojo, 2019, Effect of Electron Density and Temperature in Oxygen Plasma Treatment of Polystyrene Surface, IOP Conference Series: Materials Science and Engineering, (DOI:))
	17. (Dionysius Joseph Djoko Herry Santjojo, 2019, Stability of Polystyrene Film Surface Wettability Modified Using Oxygen Plasma, Materials Today: Proceedings, (DOI:))
	18. (Dionysius Joseph Djoko Herry Santjojo, 2018, Investigating Natural Transition Metal Coordination Anthocyanin Complex In Java Plum (Syzygium Cumini) Fruit As Free Radical Scavenging, Rasayan Journal of Chemistry, (DOI:))
	19. (Dionysius Joseph Djoko Herry Santjojo, 2018, Oxygen Plasma Effect on QCM Sensor Coated Polystyrene Film, IOP Conference Series: Materials Science and Engineering, (DOI:))
	20. (Dionysius Joseph Djoko Herry Santjojo, 2018, One-pot Synthesis and Surface Modification of Fe3O4 Nanoparticles Using Polyvinyl Alcohol by Coprecipitation and Ultrasonication Methods, IOP Conference Series: Materials Science and Engineering, (DOI:))
	21. (Dionysius Joseph Djoko Herry Santjojo, 2018, Preparation and Characterization of Chitosan-coated Fe3O4 Nanoparticles using Ex-Situ Co-Precipitation Method and Tripolyphosphate / Sulphate as Dual Crosslinkers Preparation and Characterization of Chitosan-coated Fe 3 O 4 Nanoparticles using Ex-Situ, IOP Conference Series: Materials Science and Engineering, (DOI:))
	22. (Dionysius Joseph Djoko Herry Santjojo, 2018, Synthesis and Characterization of Fe3O4 Nanoparticles using Polyvinyl Alcohol (PVA) as Capping Agent and Glutaraldehyde (GA) as Crosslinker, IOP Conference Series: Materials Science and Engineering, (DOI:))
	23. (Dionysius Joseph Djoko Herry Santjojo, 2017, Microstructure and Phase Transformation of Pure Titanium During Nitriding Process by Highdensity Plasma, Jurnal Sains Materi Indonesia, (DOI:))
	24. (Dionysius Joseph Djoko Herry Santjojo, 2017, The effectivity of haloalkane (CH2FCF3) plasma in selective etching of a quartz crystal microbalance biosensor, IEEE explore (ISSIMS 2017), (DOI:))
	25. (Dionysius Joseph Djoko Herry Santjojo,2017, Characteristics and Magnetic Properties of Chitosan-Coated Fe3O4 Nanoparticles Prepared by Ex-Situ Co-Precipitation Method, Rasayan Journal of Chemistry, (DOI:))
	26. (Dionysius Joseph Djoko Herry Santjojo, 2017, Designed Structure and Magnetic (Fe3O4) Nanoparticles Coated by Polyvinyl Alcohol and Polyvinyl Alcohol-Linked with Glutaraldehyde, Rasayan Journal of Chemistry, (DOI:))
	27. (Dionysius Joseph Djoko Herry Santjojo, 2017, Plasma Power Effect on The Surfaces of a Quartz Crystal During Etching Using Tetrafluoroethane Gas, International Journal of Technology, (DOI:))

	28. (Dionysius Joseph Djoko Herry Santjojo, 2017, KOH wet etching technique for patterned formation on surface of quartz crystal with AuPd mask, IEEE explore (ISSIMS 2016), (DOI:))		
	29. (Dionysius Joseph Djoko Herry Santjojo, 2017, The effect of RF-DC plasma N2-H2 in the selective hardening process for micro-patterned AISI420, AIP Publishing on the 4th International Conference on Research, Implementation, and Education of Mathematics and Science (4th ICRIEMS), (DOI:))		
	30. (Dionysius Joseph Djoko Herry Santjojo, 2017, Low-Temperature Nitriding of Pure Titanium by using Hollow Cathode RF-DC Plasma, IOP Publishing on Conference Series: Materials Science and Engineering, (DOI:))		
	31. (Dionysius Joseph Djoko Herry Santjojo, 2017, The Effect of Substrate Temperature on Surface Modification of Polystyrene by using Nitrogen Plasma, IOP Publishing on Conference Series: Materials Science and Engineering, (DOI:))		
	32. (Dionysius Joseph Djoko Herry Santjojo, 2016, Synthesis of ZnPc functional layer on QCM biosensor with polystyrene interlayer by means of evaporation techniques, AIP Publishing on the 4th International Conference on Theoretical and Applied Physics (ICTAP) 2014, (DOI:))		
	33. (Dionysius Joseph Djoko Herry Santjojo, 2016, In-Situ Synthesis and Characterization of Chitosan-Fe 3 O 4 Nanoparticles Using Tripolyphosphate / Citrate as Cross-Linker, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, (DOI:))		
	34. (Dionysius Joseph Djoko Herry Santjojo, 2016, Viscoelastic and Morphological Behavior of Stearic Acid Layer on Top of Polystyrene as Immobilisation Matrix for QCM Sensor, Materials Science Forum , (DOI:))		
Activities in specialist bodies over the last 5 years	Organization	Role	Period
	Physics Society of Indonesia	Member	2017-now