

# Wahyu Srigitomo

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

234  
citations

1478505

6  
h-index

1125743

13  
g-index

70  
all docs

70  
docs citations

70  
times ranked

276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-latitude scintillation occurrences around the equatorial anomaly crest over Indonesia. <i>Annales Geophysicae</i> , 2014, 32, 7-17.	1.6	46
2	Resistivity structure of Unzen Volcano derived from time domain electromagnetic (TDEM) survey. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 231-240.	2.1	27
3	Scanning electron microscopy and magnetic characterization of iron oxides in solid waste landfill leachate. <i>Journal of Hazardous Materials</i> , 2010, 179, 701-708.	12.4	24
4	Measurement of gravitational acceleration using a computer microphone port. <i>Physics Education</i> , 2012, 47, 709-714.	0.5	15
5	Development of a simple CO <sub>2</sub> sensor based on the thermal conductivity detection by a thermopile. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 133, 139-144.	5.0	10
6	A complete quantitative analysis of self-potential anomaly using singular value decomposition algorithm. , 2014, , .		6
7	Thermal modeling and heat flow density interpretation of the onshore Northwest Java Basin, Indonesia. <i>Geothermal Energy</i> , 2016, 4, .	1.9	6
8	Development of Volcano Early Warning System for Kelud Volcano. <i>Journal of Engineering and Technological Sciences</i> , 2021, 53, .	0.6	6
9	Integrated geophysical measurements for subsurface mapping at Papandayan volcano, Garut, Indonesia (preliminary result). <i>AIP Conference Proceedings</i> , 2012, , .	0.4	5
10	High Sensitivity Fluxgate Sensor for Detection of AC Magnetic Field: Equipment for Characterization of Magnetic Material in Subsurface. <i>Advanced Materials Research</i> , 0, 896, 718-721.	0.3	5
11	Investigation of Underground Hydrocarbon Leakage using Ground Penetrating Radar. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012137.	0.4	5
12	1-D DC Resistivity Inversion Using Singular Value Decomposition and Levenberg-Marquardt's Inversion Schemes. <i>Journal of Physics: Conference Series</i> , 2017, 877, 012066.	0.4	5
13	Detection of seismograph signal using fiber bundle sensor. <i>Optik</i> , 2020, 208, 164554.	2.9	5
14	Ensemble Kalman Inversion for Determining Model Parameter of Self-potential Data in the Mineral Exploration. <i>Springer Geophysics</i> , 2021, , 179-202.	0.9	5
15	2D Gravity Inversion Using Particle Swarm Optimization Method. , 2017, , .		5
16	Application of Levenberg-Marquardt inversion to microgravity data for investigation of shallow volcanic magma chamber deformation. , 2012, , .		4
17	Interpretation of Self-Potential anomalies for investigating fault using the Levenberg-Marquardt method: a study case in Pinggirsari, West Java, Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 62, 012004.	0.3	4
18	Concept and application of relaxing radial retinectomy for retinal detachment with advanced proliferative vitreo-retinopathy. <i>International Journal of Retina and Vitreous</i> , 2020, 6, 46.	1.9	4

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19	Multifractal Characterization of Pore Size Distributions of Peat Soil. Journal of Mathematical and Fundamental Sciences, 2016, 48, 106-114.	0.5	4
20	Preliminary Study of 2-D Time Domain Electromagnetic (TDEM) Modeling to Analyze Subsurface Resistivity Distribution and its Application to the Geothermal Systems. Journal of Physics: Conference Series, 2017, 877, 012070.	0.4	3
21	A Comparative Study of Simulated Annealing and Genetic Algorithm Method in Bayesian Framework to the 2D-Gravity Data Inversion. Journal of Physics: Conference Series, 2019, 1204, 012079.	0.4	3
22	Gravity Inversion of Talwani Model using Very Fast Simulated Annealing. Journal of Mathematical and Fundamental Sciences, 2019, 51, 177-190.	0.5	3
23	Modeling and inversion of volcanic surface deformation based on Mogi model and McTigue model. AIP Conference Proceedings, 2015, , .	0.4	2
24	Time-domain electromagnetic (TDEM) baseline survey for CCS in Gundih area, Central Java, Indonesia. , 2015, , .		2
25	2D Resistivity and Induced Polarization Measurement for Manganese Ore Exploration. Journal of Physics: Conference Series, 2016, 739, 012138.	0.4	2
26	1D and 2D Occam's Inversion of Magnetotelluric Data Applied in Volcano-Geothermal Area In Central Java, Indonesia. Journal of Physics: Conference Series, 2016, 739, 012036.	0.4	2
27	Location of Sinabung volcano magma chamber on 2013 using levenberg-marquardt inversion scheme. Journal of Physics: Conference Series, 2018, 1013, 012182.	0.4	2
28	Interpretation of 1D Vector Controlled-Source Audio-Magnetotelluric (CSAMT) Data Using Full Solution Modeling. Journal of Mathematical and Fundamental Sciences, 2013, 45, 172-188.	0.5	2
29	Development of an Internet of Things Based Volcano Monitoring System. IOP Conference Series: Earth and Environmental Science, 2021, 830, 012023.	0.3	2
30	Application of Qualitative and Quantitative Analyses of Self-Potential Anomaly in Caves Detection in Djuanda Forest Park, Bandung. , 2010, , .		1
31	Application analysis of Monte Carlo to estimate the capacity of geothermal resources in Lawu Mount. , 2014, , .		1
32	Forward modeling of magnetotelluric transverse electric mode with topography using finite element method. , 2015, , .		1
33	Fractal analysis of microstructure of peat soil. AIP Conference Proceedings, 2015, , .	0.4	1
34	Comparison of 1D magnetotelluric inversion using Levenberg-Marquardt and Occam's inversion schemes. AIP Conference Proceedings, 2015, , .	0.4	1
35	Development of an AC power source for CSEM method using full-bridge switching configuration. AIP Conference Proceedings, 2015, , .	0.4	1
36	CSAMT Data Processing with Source Effect and Static Corrections, Application of Occam's Inversion, and Its Application in Geothermal System. Journal of Physics: Conference Series, 2016, 739, 012057.	0.4	1

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37	Location and Pressures Change Prediction of Bromo Volcano Magma Chamber Using Inversion Scheme. Journal of Physics: Conference Series, 2016, 739, 012102.	0.4	1
38	Complexity Analysis of Peat Soil Density Distribution. Journal of Physics: Conference Series, 2016, 739, 012071.	0.4	1
39	Combined DC Resistivity Survey and Electric Conductivity- Dielectric Permittivity Measurement at Sag Pond near Lembang Fault, West Java, Indonesia. Journal of Physics: Conference Series, 2016, 739, 012079.	0.4	1
40	2-D Resistivity Structure of Cubadak Geothermal Area Revealed from Magnetotelluric Data. IOP Conference Series: Earth and Environmental Science, 2017, 62, 012034.	0.3	1
41	Resistivity Structure in Tangkuban Parahu Area Drived from CSAMT Data. Journal of Physics: Conference Series, 2017, 877, 012055.	0.4	1
42	Application of Implicit Finite Difference Method to Determine the 2D Patterns of Unsteady State Thermal Spreading of Geothermal Systems. Journal of Physics: Conference Series, 2017, 877, 012012.	0.4	1
43	Fractal analysis of land surface temperature for geothermal and non-geothermal sites characterization. Journal of Physics: Conference Series, 2018, 1028, 012198.	0.4	1
44	Preliminary Study on Electrical Properties of Hydrocarbon-Contaminated Soils at an Artisanal Oil Field in Central Java, Indonesia. Journal of Physics: Conference Series, 2019, 1204, 012041.	0.4	1
45	Development of Data Acquisition Instrumentation and Inversion System for Earth Resistivity Survey in a Smart Integrated System. Journal of Physics: Conference Series, 2019, 1204, 012122.	0.4	1
46	Analysis of changes in soil physical properties using electrical method as an indicator of pollution distribution in North Jakarta. AIP Conference Proceedings, 2020, , .	0.4	1
47	Synthetic Source Inversion Tests with the Damped Isochrone Inversion Approach. Journal of Earthquake and Tsunami, 2021, 15, .	1.3	1
48	Three-dimensional DC Resistivity Modeling using Galerkin Finite Element Method Composed by Tetrahedral Elements. Journal of Engineering and Technological Sciences, 2019, 51, 516.	0.6	1
49	Nonlinear Inversion using Very Fast Simulated Annealing for Horizontal Electric Dipole Time-Domain Electromagnetic Data. Journal of Electromagnetic Engineering and Science, 0, , .	1.8	1
50	Topographic effect modeling of 2D MT responses using boundary element method. , 2012, , .		0
51	Analysis of aerosol, cloud and precipitation interaction behavior using predator-prey model. , 2014, , .		0
52	Stability analysis of predator-prey model on the case of aerosol-cloud-precipitation interactions. AIP Conference Proceedings, 2015, , .	0.4	0
53	Developing stereo image based robot control system. AIP Conference Proceedings, 2015, , .	0.4	0
54	Modeling of hydrological drawdown caused by pumping for unconfined, confined, and half-confined aquifers. AIP Conference Proceedings, 2015, , .	0.4	0

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55	Fluxgate Based Detection of Magnetic Material in Soil Subsurface. Applied Mechanics and Materials, 2015, 771, 55-58.	0.2	0
56	The Increasing of Air and Biogas Mixer Instrument for Generating Friendly Environmental Electricity Power. Journal of Physics: Conference Series, 2016, 739, 012090.	0.4	0
57	Relation between cloud thickness-cloud number concentration differences and rain occurrence based on Koren-Feingold model. Journal of Physics: Conference Series, 2016, 771, 012047.	0.4	0
58	VLF -MT Survey around Nakadake crater at Aso Volcano. IOP Conference Series: Earth and Environmental Science, 2016, 29, 012016.	0.3	0
59	Development of alternating current transmitter of detection system for magnetic material in soil subsurface. AIP Conference Proceedings, 2016, , .	0.4	0
60	Two dimension magnetotelluric modeling using finite element method, incomplete lu preconditioner and biconjugate gradient stabilized technique. Journal of Physics: Conference Series, 2016, 739, 012088.	0.4	0
61	Detection of Magnetic Material in Soil Subsurface Using Electromagnetic Induction Method Based on Fluxgate Sensor. Key Engineering Materials, 0, 675-676, 494-500.	0.4	0
62	Location and Pressures Change Prediction of Bromo Volcano Magma Chamber Using Inversion Scheme. Journal of Physics: Conference Series, 2017, 846, 012002.	0.4	0
63	3-D Modeling of Time Domain Electromagnetic (TDEM) Method to Analyze the Layered Earth Structure in the Geothermal Systems. Journal of Physics: Conference Series, 2019, 1204, 012043.	0.4	0
64	Global Inversion of Grounded Electric Source Time-domain Electromagnetic Data Using Particle Swarm Optimization. Journal of Engineering and Technological Sciences, 2021, 53, 210101.	0.6	0
65	Comparison of damped least-squares inversion and particle swarm optimization (PSO) on magnetic data. AIP Conference Proceedings, 2021, , .	0.4	0
66	Direction of magma migration in Sinabung volcano based on February 2017 hypocenter distribution. AIP Conference Proceedings, 2021, , .	0.4	0
67	Application of electrical resistivity method to analyze liquid waste pollution in Linggar Village, Rancaekek, West Java, Indonesia. AIP Conference Proceedings, 2021, , .	0.4	0
68	Numerical Modeling of 2-D Conductive Heat Transfer and Its Application for the Characterization of Geothermal Systems. , 0, , .		0
69	Improvement of Fluid Simulation Runtime of Smoothed Particle Hydrodynamics by Using Graphics Processing Unit (GPU). Journal of ICT Research and Applications, 2017, 11, 230.	0.8	0
70	Multifractal Characterization of Pore Size Distributions of Peat Soil. Journal of Mathematical and Fundamental Sciences, 2016, 48, 106-114.	0.5	0