Hasanuddin Z Abidin

List of Publications by Year
in descending order

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87 papers	2,622 citations	279798 23 h-index	197818 49 g-index
91 all docs	91 docs citations	91 times ranked	2127 citing authors

#	Article	IF	Citations
1	Sinking cities in Indonesia: ALOS PALSAR detects rapid subsidence due to groundwater and gas extraction. Remote Sensing of Environment, 2013, 128, 150-161.	11.0	406
2	Insight into the 2004 Sumatraâ€“Andaman earthquake from GPS measurements in southeast Asia. Nature, 2005, 436, 201-206.	27.8	290
3	Land subsidence of Jakarta (Indonesia) and its relation with urban development. Natural Hazards, 2011, 59, 1753-1771.	3.4	263
4	Land Subsidence of Jakarta (Indonesia) and its Geodetic Monitoring System. Natural Hazards, 2001, 23, 365-387.	3.4	142
5	Land subsidence characteristics of Jakarta between 1997 and 2005, as estimated using GPS surveys. GPS Solutions, 2008, 12, 23-32.	4.3	121
6	Mapping land subsidence in Jakarta, Indonesia using persistent scatterer interferometry (PSI) technique with ALOS PALSAR. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 232-242.	2.8	107
7	Land subsidence in coastal city of Semarang (Indonesia): characteristics, impacts and causes. Geomatics, Natural Hazards and Risk, 2013, 4, 226-240.	4.3	102
8	Land subsidence characteristics of Bandung Basin as revealed by ENVISAT ASAR and ALOS PALSAR interferometry. Remote Sensing of Environment, 2014, 154, 46-60.	11.0	81
9	Monitoring of long-term land subsidence from 2003 to 2017 in coastal area of Semarang, Indonesia by SBAS DInSAR analyses using Envisat-ASAR, ALOS-PALSAR, and Sentinel-1A SAR data. Advances in Space Research, 2019, 63, 1719-1736.	2.6	77
10	Interplate coupling model off the southwestern coast of Java, Indonesia, based on continuous GPS data in 2008â€“2010. Earth and Planetary Science Letters, 2014, 401, 159-171.	4.4	62
11	On causes and impacts of land subsidence in Bandung Basin, Indonesia. Environmental Earth Sciences, 2013, 68, 1545-1553.	2.7	54
12	CRUSTAL DEFORMATION STUDIES IN JAVA (INDONESIA) USING GPS. Journal of Earthquake and Tsunami, 2009, 03, 77-88.	1.3	49
13	On correlation between urban development, land subsidence and flooding phenomena in Jakarta. Proceedings of the International Association of Hydrological Sciences, 0, 370, 15-20.	1.0	49
14	A comprehensive model of postseismic deformation of the 2004 Sumatraâ€“Andaman earthquake deduced from GPS observations in northern Sumatra. Journal of Asian Earth Sciences, 2014, 88, 218-229.	2.3	48
15	Earthquake fault of the 26 May 2006 Yogyakarta earthquake observed by SAR interferometry. Earth, Planets and Space, 2009, 61, e29-e32.	2.5	47
16	Slip Rate Estimation of the Lembang Fault West Java from Geodetic Observation. Journal of Disaster Research, 2012, 7, 12-18.	0.7	45
17	The contribution of human activities to subsurface environment degradation in Greater Jakarta Area, Indonesia. Science of the Total Environment, 2009, 407, 3129-3141.	8.0	44
18	Migration of seismicity and earthquake interactions monitored by GPS in SE Asia triple junction: Sulawesi, Indonesia. Journal of Geophysical Research, 2002, 107, ETG 7-1-ETG 7-11.	3.3	41

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19	Land subsidence characteristics of the Bandung Basin, Indonesia, as estimated from GPS and InSAR. Journal of Applied Geodesy, 2008, 2, .	1.1	34
20	Subsidence and uplift of Sidoarjo (East Java) due to the eruption of the Lusi mud volcano (2006â€“present). Environmental Geology, 2009, 57, 833-844.	1.2	34
21	Investigation of the best coseismic fault model of the 2006 Java tsunami earthquake based on mechanisms of postseismic deformation. Journal of Asian Earth Sciences, 2016, 117, 64-72.	2.3	34
22	Land Subsidence in Bandung Basin and its Possible Caused Factors. Procedia Earth and Planetary Science, 2015, 12, 47-62.	0.6	33
23	Long-Term Consecutive DInSAR for Volume Change Estimation of Land Deformation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 259-270.	6.3	29
24	Long aseismic slip duration of the 2006 Java tsunami earthquake based on GPS data. Earthquake Science, 2016, 29, 291-298.	0.9	26
25	Study on the risk and impacts of land subsidence in Jakarta. Proceedings of the International Association of Hydrological Sciences, 0, 372, 115-120.	1.0	26
26	Understanding the 2007â€“2008 eruption of Anak Krakatau Volcano by combining remote sensing technique and seismic data. International Journal of Applied Earth Observation and Geoinformation, 2012, 14, 73-82.	2.8	21
27	Preliminary report on crustal deformation surveys and tsunami measurements caused by the July 17, 2006 South off Java Island Earthquake and Tsunami, Indonesia. Earth, Planets and Space, 2007, 59, 1055-1059.	2.5	18
28	Measuring ground deformation of the tropical volcano, Ibu, using ALOS-PALSAR data. Remote Sensing Letters, 2010, 1, 37-44.	1.4	16
29	On Integration of Geodetic Observation Results for Assessment of Land Subsidence Hazard Risk in Urban Areas of Indonesia. International Association of Geodesy Symposia, 2015, , 435-442.	0.4	14
30	Low-cost GPS-based volcano deformation monitoring at Mt. Papandayan, Indonesia. Journal of Volcanology and Geothermal Research, 2002, 115, 139-151.	2.1	13
31	Studying Land Subsidence of Bandung Basin (Indonesia) Using GPS Survey Technique. Survey Review, 2006, 38, 397-405.	1.2	13
32	Tidal inundation (â€œRobâ€) investigation using time series of high resolution satellite image data and from institu measurements along northern coast of Java (Pantura). IOP Conference Series: Earth and Environmental Science, 2017, 71, 012005.	0.3	13
33	On the acceleration of land subsidence rate in Semarang City as detected from GPS surveys. E3S Web of Conferences, 2019, 94, 04002.	0.5	13
34	Intensified water storage loss by biomass burning in Kalimantan: Detection by GRACE. Journal of Geophysical Research: Solid Earth, 2017, 122, 2409-2430.	3.4	12
35	Insight look the subsidence impact to infrastructures in Jakarta and Semarang area; Key for adaptation and mitigation. MATEC Web of Conferences, 2018, 147, 08001.	0.2	12
36	Combined X- and L-band PSI analyses for assessment of land subsidence in Jakarta. Proceedings of SPIE, 2012, , .	0.8	11

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37	An evaluation of the possibility of tectonic triggering of the Sinabung eruption. Journal of Volcanology and Geothermal Research, 2019, 382, 224-232.	2.1	11
38	Adaptation of â€˜Early Climate Change Disasterâ€™ to the Northern Coast of Java Island Indonesia. Engineering Journal, 2018, 22, 207-219.	1.0	11
39	Adaptation and mitigation of land subsidence in Semarang. AIP Conference Proceedings, 2017, , .	0.4	10
40	Insight into the Correlation between Land Subsidence and the Floods in Regions of Indonesia. , 0, , .		10
41	On the Roles of Geospatial Information for Risk Assessment of Land Subsidence in Urban Areas of Indonesia. Lecture Notes in Geoinformation and Cartography, 2013, , 277-288.	1.0	10
42	Land Subsidence Characteristics in Bandung City, Indonesia as Revealed by Spaceborne Geodetic Techniques and Hydrogeological Observations. Photogrammetric Engineering and Remote Sensing, 2013, 79, 639-652.	0.6	9
43	On the establishment and implementation of GPS CORS for cadastral surveying and mapping in Indonesia. Survey Review, 2015, 47, 61-70.	1.2	9
44	On the Construction of the Ambiguity Searching Space for On-the-Fly Ambiguity Resolution. Navigation, Journal of the Institute of Navigation, 1993, 40, 321-338.	2.8	8
45	Analysis of Coastal Sedimentation Impact to Jakarta Giant Sea Wall Using PSI ALOS PALSAR. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1472-1476.	3.1	8
46	Understanding the trigger for the LUSI mud volcano eruption from ground deformation signatures. Geological Society Special Publication, 2017, 441, 199-212.	1.3	8
47	Monitoring Land Subsidence of Jakarta (Indonesia) Using Leveling, GPS Survey and InSAR Techniques. , 2005, , 561-566.		7
48	Preliminary survey and performance of land subsidence in North Semarang Demak. AIP Conference Proceedings, 2016, , .	0.4	7
49	Early pictures of global climate change impact to the coastal area (North West of Demak Central Java) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	7
50	Investigating the tectonic influence to the anthropogenic subsidence along northern coast of Java Island Indonesia using GNSS data sets. E3S Web of Conferences, 2019, 94, 04005.	0.5	7
51	Remotes sensing capabilities on land subsidence and coastal water hazard and disaster studies. IOP Conference Series: Earth and Environmental Science, 2020, 500, 012036.	0.3	7
52	NUMERICAL MODELING OF THE 2006 JAVA TSUNAMI EARTHQUAKE. , 0, , 231-248.		6
53	Geodetic Datum of Indonesian Maritime Boundaries: Status and Problems. Marine Geodesy, 2005, 28, 291-304.	2.0	6
54	Ground deformation of Papandayan volcano before, during, and after the 2002 eruption as detected by GPS surveys. GPS Solutions, 2006, 10, 75-84.	4.3	6

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55	Preliminary result of Indonesian strain map based on geodetic measurements. AIP Conference Proceedings, 2016, , .	0.4	6
56	Study the capabilities of RTK Multi GNSS under forest canopy in regions of Indonesia. E3S Web of Conferences, 2019, 94, 01021.	0.5	6
57	Supershear shock front contribution to the tsunami from the 2018 <i>M</i>w 7.5 Palu, Indonesia earthquake. Geophysical Journal International, 2022, 230, 2089-2097.	2.4	6
58	Studying landslide displacements in the Ciloto area (Indonesia) using GPS surveys. Journal of Spatial Science, 2007, 52, 55-63.	1.5	5
59	Land subsidence induced by agriculture activity in Bandung, West Java Indonesia. IOP Conference Series: Earth and Environmental Science, 2019, 389, 012024.	0.3	5
60	3D modelling of Mt. Talaga Bodas Crater (Indonesia) by using terrestrial laser scanner for volcano hazard mitigation. AIP Conference Proceedings, 2015, , .	0.4	4
61	Velocity field from twenty-two years of combined GPS daily coordinate time series analysis. AIP Conference Proceedings, 2016, , .	0.4	4
62	Landslide monitoring using terrestrial laser scanner and robotic total station in Rancabali, West Java (Indonesia). AIP Conference Proceedings, 2017, , .	0.4	4
63	Continuously operating GPS-based volcano deformation monitoring in Indonesia: the technical and logistical challenges. International Association of Geodesy Symposia, 2000, , 361-366.	0.4	4
64	On the Development and Implementation of a Semi-Dynamic Datum for Indonesia. International Association of Geodesy Symposia, 2015, , 91-99.	0.4	3
65	Preliminary deformation model for National Seismic Hazard map of Indonesia. AIP Conference Proceedings, 2015, , .	0.4	3
66	Strain Variation along Cimandiri Fault, West Java Based on Continuous and Campaign GPS Observation From 2006-2016. IOP Conference Series: Earth and Environmental Science, 2018, 132, 012027.	0.3	3
67	Contribution of BeiDou satellite system for long baseline GNSS measurement in Indonesia. IOP Conference Series: Earth and Environmental Science, 2018, 149, 012070.	0.3	3
68	Post-Tsunami Land Administration Reconstruction in Aceh: Aspects, Status and Problems. Survey Review, 2011, 43, 439-450.	1.2	2
69	Preliminary co-sesimic deformation model for Indonesia geospatial reference system 2013. AIP Conference Proceedings, 2017, , .	0.4	2
70	Determining the initial time of anthropogenic subsidence in urban area of Indonesia. IOP Conference Series: Earth and Environmental Science, 2019, 389, 012034.	0.3	2
71	WHY MANY VICTIMS: LESSONS FROM THE JULY 2006 SOUTH JAVA TSUNAMI EARTHQUAKE. , 0, , 249-263.		2
72	Influence of groundwater level to slope displacement by geodetic method. AIP Conference Proceedings, 2016, , .	0.4	1

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73	Application of A10 Absolute Gravimeter for Monitoring Land Subsidence in Jakarta, Indonesia. International Association of Geodesy Symposia, 2016, , 127-134.	0.4	1
74	Newly velocity field of Sulawesi Island from GPS observation. AIP Conference Proceedings, 2017, , .	0.4	1
75	Rotation and strain rate of Sulawesi from geometrical velocity field. AIP Conference Proceedings, 2017, , .	0.4	1
76	Investigating the tectonic subsidence on Java Island using GNSS GPS campaign and continuous. AIP Conference Proceedings, 2018, , .	0.4	1
77	Geodetic strain to study the deformation model of Indonesian semi dynamic datum 2013. AIP Conference Proceedings, 2018, , .	0.4	1
78	Land subsidence characteristtics of Bandung Basin as revealed by ENVISAT ASAR and ALOS PALSAR interferometry. , 2013, , .		0
79	On the use of terrestrial laser scanner for deformation analysis of the Talaga Bodas Crater West Java (Indonesia). AIP Conference Proceedings, 2016, , .	0.4	0
80	Implementation of M6.5 Pidie Jaya earthquakeâ€™s deformation model for Indonesian geospatial reference system 2013. AIP Conference Proceedings, 2018, , .	0.4	0
81	The Effect of Highway Vibration to The Hills Slope Stability by an Integrated GPS-Vibration Data Processing. E3S Web of Conferences, 2019, 94, 01017.	0.5	0
82	Assessment on topographic mapping using total station and terrestrial laser scanner technology (case study: Kiara Payung area, Sumedang). IOP Conference Series: Earth and Environmental Science, 2019, 389, 012006.	0.3	0
83	Deformation Study of Papandayan Volcano using GPS Survey Method and Its Correlation with Seismic Data Observation. ITB Journal of Engineering Science, 2006, 38, 123-146.	0.1	0
84	Development of Static Differential Method GNSS CORS UDIP for Monitoring Land Subsidence in Semarang Demak. Advanced Science Letters, 2017, 23, 2207-2210.	0.2	0
85	Terrestrial Laser Scanner (TLS) Measurement in A Volcanic Area: Detection of Error Source and Scanned Object Intensity. Indonesian Journal on Geoscience, 2020, 7, .	0.3	0
86	Volcano Deformation Monitoring in Indonesia: Status, Limitations and Prospects. , 2007, , 790-798.		0
87	GPS-Based Monitoring of Surface Displacements in the Mud Volcano Area, Sidoarjo, East Java. International Association of Geodesy Symposia, 2009, , 595-603.	0.4	0