Joong-Sun Won

List of Publications by Year
in descending order

99 papers	3,362 citations	172386 29 h-index	143943 57 g-index
101 all docs	101 docs citations	101 times ranked	2895 citing authors

#	Article	IF	Citations
1	Determination and application of the weights for landslide susceptibility mapping using an artificial neural network. Engineering Geology, 2004, 71, 289-302.	2.9	481
2	Waterline extraction from Landsat TM data in a tidal flatA case study in Gomso Bay, Korea. Remote Sensing of Environment, 2002, 83, 442-456.	4.6	312
3	Landslide susceptibility analysis using GIS and artificial neural network. Earth Surface Processes and Landforms, 2003, 28, 1361-1376.	1.2	210
4	Use of an artificial neural network for analysis of the susceptibility to landslides at Boun, Korea. Environmental Geology, 2003, 44, 820-833.	1.2	153
5	Mapping Three-Dimensional Surface Deformation by Combining Multiple-Aperture Interferometry and Conventional Interferometry: Application to the June 2007 Eruption of Kilauea Volcano, Hawaii. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 34-38.	1.4	143
6	An Improvement of the Performance of Multiple-Aperture SAR Interferometry (MAI). IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2859-2869.	2.7	131
7	Detecting the intertidal morphologic change using satellite data. Estuarine, Coastal and Shelf Science, 2008, 78, 623-632.	0.9	129
8	Multi-temporal monitoring of wetland water levels in the Florida Everglades using interferometric synthetic aperture radar (InSAR). Remote Sensing of Environment, 2010, 114, 2436-2447.	4.6	123
9	Assessment of ground subsidence hazard near an abandoned underground coal mine using GIS. Environmental Geology, 2006, 50, 1183-1191.	1.2	105
10	Satellite observation of coal mining subsidence by persistent scatterer analysis. Engineering Geology, 2007, 92, 1-13.	2.9	89
11	Validation of an artificial neural network model for landslide susceptibility mapping. Environmental Earth Sciences, 2010, 60, 473-483.	1.3	83
12	Application of a fuzzy operator to susceptibility estimations of coal mine subsidence in Taebaek City, Korea. Environmental Earth Sciences, 2010, 59, 1009-1022.	1.3	81
13	Ionospheric Correction of SAR Interferograms by Multiple-Aperture Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3191-3199.	2.7	76
14	The Application of Artificial Neural Networks to Landslide Susceptibility Mapping at Janghung, Korea. Mathematical Geosciences, 2006, 38, 199-220.	0.9	74
15	Efficient Thermal Noise Removal for Sentinel-1 TOPSAR Cross-Polarization Channel. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1555-1565.	2.7	72
16	Measurements and predictions of subsidence induced by soil consolidation using persistent scatterer InSAR and a hyperbolic model. Geophysical Research Letters, 2010, 37, .	1.5	60
17	Ensemble-based landslide susceptibility maps in Jinbu area, Korea. Environmental Earth Sciences, 2012, 67, 23-37.	1.3	55
18	Spatial Landslide Hazard Prediction Using Rainfall Probability and a Logistic Regression Model. Mathematical Geosciences, 2015, 47, 565-589.	1.4	50

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19	Classification of sea ice types in Sentinel-1 synthetic aperture radar images. Cryosphere, 2020, 14, 2629-2645.	1.5	50
20	A critical grain size for Landsat ETM+ investigations into intertidal sediments: a case study of the Gomso tidal flats, Korea. Estuarine, Coastal and Shelf Science, 2004, 60, 491-502.	0.9	48
21	Interferometric Coherence Analysis of the Everglades Wetlands, South Florida. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 5210-5224.	2.7	45
22	Monitoring of urban land surface subsidence using PSInSAR. Geosciences Journal, 2007, 11, 59-73.	0.6	37
23	An Efficient Method of Doppler Parameter Estimation in the Time–Frequency Domain for a Moving Object From TerraSAR-X Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4771-4787.	2.7	37
24	Measurement of slow-moving along-track displacement from an efficient multiple-aperture SAR interferometry (MAI) stacking. Journal of Geodesy, 2015, 89, 411-425.	1.6	37
25	Evaluation of heavy metal contamination and implication of multiple sources from Hunchun basin, northeastern China. Environmental Geology, 2000, 39, 1039-1052.	1.2	35
26	Landslide hazard mapping considering rainfall probability in Inje, Korea. Geomatics, Natural Hazards and Risk, 2016, 7, 424-446.	2.0	34
27	Potential uses of TerraSAR-X for mapping herbaceous halophytes over salt marsh and tidal flats. Estuarine, Coastal and Shelf Science, 2012, 115, 366-376.	0.9	33
28	Textural Noise Correction for Sentinel-1 TOPSAR Cross-Polarization Channel Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4040-4049.	2.7	32
29	Polarimetric Features of Oyster Farm Observed by AIRSAR and JERS-1. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2728-2735.	2.7	31
30	Spatial and temporal change in landslide hazard by future climate change scenarios using probabilistic-based frequency ratio model. Geocarto International, 2014, 29, 639-662.	1.7	29
31	A Study of Decadal Sedimentation Trend Changes by Waterline Comparisons within the Ganghwa Tidal Flats Initiated by Human Activities. Journal of Coastal Research, 2011, 276, 857-869.	0.1	28
32	Dynamic deformation of Seguam Island, Alaska, 1992–2008, from multi-interferogram InSAR processing. Journal of Volcanology and Geothermal Research, 2013, 260, 43-51.	0.8	28
33	Detecting the Source Location of Recent Summit Inflation via Three-Dimensional InSAR Observation of Kīlauea Volcano. Remote Sensing, 2015, 7, 14386-14402.	1.8	26
34	Detection and Restoration of Defective Lines in the SPOT 4 SWIR Band. IEEE Transactions on Image Processing, 2010, 19, 2143-2156.	6.0	25
35	Integration of a subsidence model and SAR interferometry for a coal mine subsidence hazard map in Taebaek, Korea. International Journal of Remote Sensing, 2011, 32, 8161-8181.	1.3	24
36	Application of L–band differential SAR interferometry to subsidence rate estimation in reclaimed coastal land. International Journal of Remote Sensing, 2005, 26, 1363-1381.	1.3	22

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37	Measurement of precise three-dimensional volcanic deformations via TerraSAR-X synthetic aperture radar interferometry. Remote Sensing of Environment, 2017, 192, 228-237.	4.6	22
38	An application of L-band synthetic aperture radar to tide height measurement. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1472-1478.	2.7	20
39	A time-series SAR observation of surface deformation at the southern end of the San Andreas Fault Zone. Geosciences Journal, 2010, 14, 277-287.	0.6	20
40	Measurement of three-dimensional surface deformation by Cosmo-SkyMed X-band radar interferometry: Application to the March 2011 Kamoamoa fissure eruption, Kālauea Volcano, Hawai'i. Remote Sensing of Environment, 2015, 169, 176-191.	4.6	20
41	Water Quality and Pollution in the Hunchun Basin, China. Environmental Geochemistry and Health, 2000, 22, 1-18.	1.8	17
42	Vegetation Height Estimate in Rice Fields Using Single Polarization TanDEM-X Science Phase Data. Remote Sensing, 2018, 10, 1702.	1.8	17
43	InSAR-based mapping of surface subsidence in Mokpo City, Korea, using JERS-1 and ENVISAT SAR data. Earth, Planets and Space, 2008, 60, 453-461.	0.9	16
44	Measurements of soil compaction rate by using JERS-1 SAR and a prediction model. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2683-2686.	2.7	15
45	Tidal channel distribution in relation to surface sedimentary facies based on remotely sensed data. Geosciences Journal, 2012, 16, 127-137.	0.6	13
46	Multi temporal JERS-1 SAR investigation of Mt. Baekdu stratovolcano using differential interferometry. Geosciences Journal, 2001, 5, 301-312.	0.6	12
47	A Land Cover Variation Model of Water Level for the Floodplain of Tonle Sap, Cambodia, Derived From ALOS PALSAR and MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2238-2253.	2.3	12
48	Two-Dimensional Ship Velocity Estimation Based on KOMPSAT-5 Synthetic Aperture Radar Data. Remote Sensing, 2019, 11, 1474.	1.8	12
49	Deformation of the Augustine Volcano, Alaska, 1992–2005, measured by ERS and ENVISAT SAR interferometry. Earth, Planets and Space, 2008, 60, 447-452.	0.9	11
50	Extraction of ground control points (GCPs) from synthetic aperture radar images and SRTM DEM. International Journal of Remote Sensing, 2006, 27, 3813-3829.	1.3	9
51	Line-of-Sight Vector Adjustment Model for Geopositioning of SPOT-5 Stereo Images. Photogrammetric Engineering and Remote Sensing, 2007, 73, 1267-1276.	0.3	9
52	Halophyte die-off in response to anthropogenic impacts on tidal flats. Estuarine, Coastal and Shelf Science, 2014, 151, 347-354.	0.9	8
53	Using TanDEM-X Pursuit Monostatic Observations with a Large Perpendicular Baseline to Extract Glacial Topography. Remote Sensing, 2018, 10, 1851.	1.8	8
54	Spatiotemporal Variation in Suspended Sediment Concentrations and Related Factors of Coastal Waters Based on Multispatial Satellite Data in Gyeonggi Bay, Korea. Journal of Coastal Research, 2017, 333, 653-667.	0.1	7

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55	Fast and Efficient Correction of Ground Moving Targets in a Synthetic Aperture Radar, Single-Look Complex Image. Remote Sensing, 2017, 9, 926.	1.8	7
56	Acceleration Compensation for Estimation of Along-Track Velocity of Ground Moving Target from Single-Channel SAR SLC Data. Remote Sensing, 2020, 12, 1609.	1.8	7
57	Intertidal DEM Generation Using Satellite Radar Interferometry. Korean Journal of Remote Sensing, 2012, 28, 121-128.	0.4	7
58	Measurement of the water level in reservoirs from TerraSAR-X SAR interferometry and amplitude images. Remote Sensing Letters, 2013, 4, 446-454.	0.6	6
59	A tidal correction model for near-infrared (NIR) reflectance over tidal flats. Remote Sensing Letters, 2013, 4, 833-842.	0.6	5
60	Doppler Frequency Estimation of Point Targets in the Single-Channel SAR Image by Linear Least Squares. Remote Sensing, 2018, 10, 1160.	1.8	5
61	Tidal flat DEM generation by satellite remote sensing. , 0, , .		4
62	Formulation of distortion error for the line-of-sight (LOS) vector adjustment model and its role in restitution of SPOT imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 610-620.	4.9	4
63	Standardization of sedimentary facies and topography based on the tidal channel type in Western coastal area, Korea. Journal of Coastal Research, 2013, 165, 1373-1378.	0.1	4
64	Study on the sediment classification in a tidal flat considering the pattern of channel distribution. , 2010, , .		3
65	Landslide susceptibility mapping by using an adaptive neuro-fuzzy inference system (ANFIS). , 2011, , .		3
66	An Atmospheric Correction Using High Resolution Numerical Weather Prediction Models for Satellite-Borne Single-Channel Mid-Wavelength and Thermal Infrared Imaging Sensors. Remote Sensing, 2020, 12, 853.	1.8	3
67	Efficient SAR Azimuth Ambiguity Reduction in Coastal Waters Using a Simple Rotation Matrix: The Case Study of the Northern Coast of Jeju Island. Remote Sensing, 2021, 13, 4865.	1.8	3
68	Inversion of synthetic aperture radar data for surface scattering. Geophysical Journal International, 1992, 108, 423-432.	1.0	2
69	A study of tidal channel influence upon surficial sediment distribution in the Ganghwa-Do southern tidal flat. , 2010, , .		2
70	Optical remote sensing for long-term changes of surface sediments on tidal flats: Preliminary results in the West Coast of Korea. , 2014, , .		2
71	Detection and Velocity Measurement of Brash Ice in the Arctic Ocean by TerraSAR-X Quad-pol SAR. Journal of Coastal Research, 2019, 90, 1.	0.1	2
72	Application of neural networks to waterline extraction in tidal flat from optic satellite images. , 0, , .		1

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73	SAR investigation over the Baegdu stratovolcanic mountain: preliminary results. , 0, , .		1
74	Control factors of spectral reflectance in tidal flat: a case study in the Gomso Bay, Korea. , 0, , .		1
75	Polarimetric synthetic aperture radar (SAR) and geodynamic applications: An overview of a new Earth system observation concept. Geosciences Journal, 2002, 6, 341-346.	0.6	1
76	DInSAR measurements of reclaimed costal land. , 0, , .		1
77	Measurement of sea level by L-band SAR. , 0, , .		1
78	Spectral correlation analysis of complex data. Optik, 2004, 115, 375-379.	1.4	1
79	Coherence Improvement of Cross-Interferometric Pair by a Block Azimuth Filtering. , 2006, , .		1
80	Fusion of ALOS PALSAR and ASTER data for landcover classification at Tonle Sap floodplain, Cambodia. Proceedings of SPIE, 2010, , .	0.8	1
81	Assessment of TerraSAR-X for mapping salt marsh. , 2011, , .		1
82	Measurement of three-dimensional surface deformation of the March 2011 Kamoamoa fissure eruption, Kilauea Volcano, Hawai'i. , 2014, , .		1
83	Estimation of the sedimentation budget in tidal flat using remotely sensed data. , 0, , .		0
84	Application of differential SAR interferometry over the Baegdu stratovolcanic mountain. , 0, , .		0
85	Wavenumber correlation analysis of Topex/Poseidon and tide-gauge sea surface heights in the East Sea (Japan Sea). , 0, , .		0
86	Characteristics of permanent scatterer in coastal area. , 0, , .		0
87	Application of ERS SAR to the study of korean tidal flats. , 0, , .		0
88	Spaceborne radar interferometry for coastal DEM construction. , 0, , .		0
89	Application of KOMPSAT-2 to the detection of microphytobenthos in tidal flats. , 0, , .		0
90	Surface deformation in Mokpo area observed with synthetic aperture radar interferometry. , 0, , .		0

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91	An Efficient Method to Detect Defective Detectors of SPOT 4 SWIR Band Using Iterative High-pass Filtering. , 2006, , .		0
92	Temporal and spatial variability of SST and LST concentrations in the Korea Sea using empirical orthogonal function (EOF) analysis of remote sensing data. , 2010, , .		0
93	Integration of InSAR and GIS for an estimation of ground subsidence susceptibility. , 2010, , .		0
94	Monitoring of topographic change on the coastal area. , 2011, , .		0
95	Tidal flat reflectance model accommodating tidal conditions using Geostationary Ocean Color Imager (GOCI): Preliminary results. , 2012, , .		0
96	An empirical model for measurement accuracy of along-track deformation by advanced multiple-aperture SAR interferometry from COSMO-SkyMed dataset. , 2015, , .		0
97	Interferometric analysis of quad-pol SAR data for observation of sea ice dynamics. , 2015, , .		0
98	Rice paddy height estimation from single-polarization TanDEM-X science phase data. , 2017, , .		0
99	A Study on the Land Surface Emissivity (LSE) Distribution of Mid-wavelength Infrared (MWIR) over the Korean Peninsula. Korean Journal of Remote Sensing, 2016, 32, 423-434.	0.4	0