Huadong Guo

List of Publications by Year in descending order

273 papers	6,058 citations	81900 39 h-index	110387 64 g-index
273 all docs	273 docs citations	273 times ranked	5943 citing authors

#	Article	IF	Citations
1	Pan-Sharpening Based on Panchromatic Image Spectral Learning Using WorldView-2. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
2	An urbanization monitoring dataset for world cultural heritage in the Belt and Road region. Big Earth Data, 2022, 6, 127-140.	4.4	6
3	Effects of Ellipsoidal Earth Model on Estimating the Sensitivity of Moon-Based Outgoing Longwave Radiation Measurements. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
4	Sentinel-1 EW mode dataset for Antarctica from 2014â€“2020 produced by the CASEarth Cloud Service Platform. Big Earth Data, 2022, 6, 385-400.	4.4	10
5	Optical remote sensing cloud detection based on random forest only using the visible light and near-infrared image bands. European Journal of Remote Sensing, 2022, 55, 150-167.	3.5	6
6	Pan-Sharpening Based on CNN+ Pyramid Transformer by Using No-Reference Loss. Remote Sensing, 2022, 14, 624.	4.0	16
7	From concept to action: a united, holistic and One Health approach to respond to the climate change crisis. Infectious Diseases of Poverty, 2022, 11, 17.	3.7	18
8	Comparative Study on the Evaluation of Healthy City Construction in Typical Chinese Cities Based on Statistical Data and Land Use Data. Sustainability, 2022, 14, 2519.	3.2	2
9	The Influence of Anisotropic Surface Reflection on Earthâ€™s Outgoing Shortwave Radiance in the Lunar Direction. Remote Sensing, 2022, 14, 887.	4.0	6
10	Experimental Results of Three-Dimensional Modeling and Mapping with Airborne Ka-Band Fixed-Baseline InSAR in Typical Topographies of China. Remote Sensing, 2022, 14, 1355.	4.0	3
11	Effects of the Time Sampling Interval on the Angular Combination Characteristics of Moon-Based Earth Observations. Remote Sensing, 2022, 14, 1623.	4.0	1
12	Contribution of UNESCO designated sites to the achievement of Sustainable Development Goals. Innovation(China), 2022, 3, 100227.	9.1	4
13	Observational angular analysis of Moon-based Earth observations. International Journal of Remote Sensing, 2022, 43, 2315-2333.	2.9	2
14	Theoretical Feasibility Analysis of Fast Back-Projection Algorithm for Moon-Based SAR in Time Domain. Applied Sciences (Switzerland), 2022, 12, 3850.	2.5	1
15	Quantitative prediction and evaluation of geothermal resource areas in the southwest section of the Mid-Spine Belt of Beautiful China. International Journal of Digital Earth, 2022, 15, 748-769.	3.9	10
16	Global 10-m impervious surface area mapping: A big earth data based extraction and updating approach. International Journal of Applied Earth Observation and Geoinformation, 2022, 109, 102800.	1.9	12
17	Water Body Mapping Using Long Time Series Sentinel-1 SAR Data in Poyang Lake. Water (Switzerland), 2022, 14, 1902.	2.7	14
18	Prediction of Potential Geothermal Disaster Areas along the Yunnanâ€“Tibet Railway Project. Remote Sensing, 2022, 14, 3036.	4.0	9

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19	Measuring and evaluating SDG indicators with Big Earth Data. Science Bulletin, 2022, 67, 1792-1801.	9.0	51
20	Automatic Mapping of Karez in Turpan Basin Based on Google Earth Images and the YOLOv5 Model. Remote Sensing, 2022, 14, 3318.	4.0	2
21	The role of imaging radar in cultural heritage: From technologies to applications. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102907.	1.9	6
22	Projections of urban built-up area expansion and urbanization sustainability in China's cities through 2030. Journal of Cleaner Production, 2022, 367, 133086.	9.3	30
23	Relating Forest Biomass to the Polarization Phase Difference of the Double-Bounce Scattering Component. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 2048-2051.	3.1	2
24	Assessing 40 years of spatial dynamics and patterns in megacities along the Belt and Road region using satellite imagery. International Journal of Digital Earth, 2021, 14, 71-87.	3.9	15
25	Spatiotemporal pattern of forest degradation and loss of ecosystem function associated with Rohingya influx: A geospatial approach. Land Degradation and Development, 2021, 32, 3666-3683.	3.9	27
26	Analyzing Antarctic ice sheet snowmelt with dynamic Big Earth Data. International Journal of Digital Earth, 2021, 14, 88-105.	3.9	9
27	Pan-Sharpening Based on Convolutional Neural Network by Using the Loss Function With No-Reference. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 897-906.	4.9	25
28	Pan-Sharpening Based on Panchromatic Colorization Using WorldView-2. IEEE Access, 2021, 9, 115523-115534.	4.2	4
29	Time-series snowmelt detection over the Antarctic using Sentinel-1 SAR images on Google Earth Engine. Remote Sensing of Environment, 2021, 256, 112318.	11.0	33
30	Drivers to dust emissions over dust belt from 1980 to 2018 and their variation in two global warming phases. Science of the Total Environment, 2021, 767, 144860.	8.0	36
31	Simulation of Earthâ€™s Outward Radiative Flux and Its Radiance in Moon-Based View. Remote Sensing, 2021, 13, 2535.	4.0	9
32	Big Earth Data: a practice of sustainability science to achieve the Sustainable Development Goals. Science Bulletin, 2021, 66, 1050-1053.	9.0	47
33	Estimating the Earthâ€™s Outgoing Longwave Radiation Measured from a Moon-Based Platform. Remote Sensing, 2021, 13, 2201.	4.0	8
34	Interdisciplinary approaches based on imaging radar enable cutting-edge cultural heritage applications. National Science Review, 2021, 8, nwab123.	9.5	11
35	Urban Sprawl and Changes in Land-Use Efficiency in the Beijingâ€“Tianjinâ€“Hebei Region, China from 2000 to 2020: A Spatiotemporal Analysis Using Earth Observation Data. Remote Sensing, 2021, 13, 2850.	4.0	22
36	Innovative approaches to the Sustainable Development Goals using Big Earth Data. Big Earth Data, 2021, 5, 263-276.	4.4	31

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37	An assessment of urbanization sustainability in China between 1990 and 2015 using land use efficiency indicators. Npj Urban Sustainability, 2021, 1, .	8.0	50
38	Light-Weight Cloud Detection Network for Optical Remote Sensing Images with Attention-Based DeeplabV3+ Architecture. Remote Sensing, 2021, 13, 3617.	4.0	16
39	Global spatio-temporal sampling characteristics of Moon-based Earth observations. International Journal of Remote Sensing, 2021, 42, 7842-7862.	2.9	3
40	Comparisons of Observational Angles Between Moon-Based Platform and Artificial Satellites. , 2021, , .		0
41	Influence of Topography on the Site Selection of a Moon-Based Earth Observation Station. Sensors, 2021, 21, 7198.	3.8	7
42	Effects of sampling time interval on the image offsets of the observed points for Moon-based earth observations. International Journal of Remote Sensing, 2021, 42, 2258-2268.	2.9	0
43	A Two-Scale Method of Sea Ice Classification Using TerraSAR-X ScanSAR Data During Early Freeze-Up. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10919-10928.	4.9	2
44	Tropical Forests Classification Based on Weighted Separation Index from Multi-Temporal Sentinel-2 Images in Hainan Island. Sustainability, 2021, 13, 13348.	3.2	2
45	The angular characteristics of Moon-based Earth observations. International Journal of Digital Earth, 2020, 13, 339-354.	3.9	11
46	Error analysis of exterior orientation elements on geolocation for a Moon-based Earth observation optical sensor. International Journal of Digital Earth, 2020, 13, 374-392.	3.9	13
47	Impacts of Platformâ€™s Position Errors on Geolocation for a Moon-Based Sensor. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 112-116.	3.1	14
48	Simulation of Moon-based Earth observation optical image processing methods for global change study. Frontiers of Earth Science, 2020, 14, 236-250.	2.1	5
49	Comparative study on the observation duration of the two-polar regions of the Earth from four specific sites on the Moon. International Journal of Remote Sensing, 2020, 41, 339-352.	2.9	5
50	UAV Laser scanning technology: a potential cost-effective tool for micro-topography detection over wooded areas for archaeological prospection. International Journal of Digital Earth, 2020, 13, 1279-1301.	3.9	12
51	Spatio-Temporal Characteristics for Moon-Based Earth Observations. Remote Sensing, 2020, 12, 2848.	4.0	10
52	Characteristics analysis of moon-based earth observation under the ellipsoid model. International Journal of Remote Sensing, 2020, 41, 9121-9139.	2.9	7
53	An Image Matching Method for SAR Orthophotos from Adjacent Orbits in Large Area Based on SAR-Moravec. Remote Sensing, 2020, 12, 2892.	4.0	5
54	Geometry Numerical Simulation and Analysis for Moon-Based Earth Observation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3381-3393.	4.9	10

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55	Effects of Temporal Sampling Interval on the Moon-Based Earth Observation Geometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4016-4029.	4.9	12
56	Linking observation, modelling and satellite-based estimation of global land evapotranspiration. Big Earth Data, 2020, 4, 94-127.	4.4	14
57	Examining geodetic glacier mass balance in the eastern Pamir transition zone. Journal of Glaciology, 2020, 66, 927-937.	2.2	9
58	Spatiotemporal Variation of Surface Urban Heat Islands in Relation to Land Cover Composition and Configuration: A Multi-Scale Case Study of Xiâ€™an, China. Remote Sensing, 2020, 12, 2713.	4.0	56
59	Detection of Tailings Dams Using High-Resolution Satellite Imagery and a Single Shot Multibox Detector in the Jingâ€“Jinâ€“Ji Region, China. Remote Sensing, 2020, 12, 2626.	4.0	19
60	A Self-Supervised Learning Framework for Road Centerline Extraction From High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4451-4461.	4.9	21
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62	An exploratory study on moon-based observation coverage of sea ice from the geometry. International Journal of Remote Sensing, 2020, 41, 6089-6098.	2.9	1
63	Drought Risk Assessment in Cultivated Areas of Central Asia Using MODIS Time-Series Data. Water (Switzerland), 2020, 12, 1738.	2.7	15
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65	Manual of Digital Earth â€“ A Milestone Book in Digital Earth History. International Journal of Digital Earth, 2020, 13, 1-1.	3.9	7
66	Big Earth Data science: an information framework for a sustainable planet. International Journal of Digital Earth, 2020, 13, 743-767.	3.9	76
67	Comparison of global change at the Earthâ€™s three poles using spaceborne Earth observation. Science Bulletin, 2020, 65, 1320-1323.	9.0	9
68	Digital Earth Challenges and Future Trends. , 2020, , 811-827.		9
69	Moon-Based Earth Radiation Budget Experiment Site Selection Analysis Based on Earth Observation Geometry. , 2020, , .		0
70	Understanding the relationship between the water crisis and sustainability of the Angkor World Heritage site. Remote Sensing of Environment, 2019, 232, 111293.	11.0	16
71	Airborne and spaceborne remote sensing for archaeological and cultural heritage applications: A review of the century (1907â€“2017). Remote Sensing of Environment, 2019, 232, 111280.	11.0	169
72	An assessment of global electric power consumption using the Defense Meteorological Satellite Program-Operational Linescan System nighttime light imagery. Energy, 2019, 189, 116351.	8.8	22

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73	A polar coordinate system based on a projection surface for moon-based earth observation images. Advances in Space Research, 2019, 64, 2209-2220.	2.6	5
74	Landslide movement monitoring with ALOS-2 SAR data. IOP Conference Series: Earth and Environmental Science, 2019, 227, 062015.	0.3	2
75	Assessment of urban environmental change using multi-source remote sensing time series (2000â€“2016): A comparative analysis in selected megacities in Eurasia. Science of the Total Environment, 2019, 684, 567-577.	8.0	55
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80	Analysis of Long-Term Moon-Based Observation Characteristics for Arctic and Antarctic. Remote Sensing, 2019, 11, 2805.	4.0	14
81	Observation Angular Analysis From A Moon-Based Earth Observation Platform. , 2019, , .		1
82	The Influence of Moon-Based Sensorâ€™s Location on Moon-Based Earth Observation. , 2019, , .		0
83	Constructing a High-Accuracy Geometric Model for Moon-Based Earth Observation. Remote Sensing, 2019, 11, 2611.	4.0	15
84	An Online Deep Convolutional Model of Gross Primary Productivity and Net Ecosystem Exchange Estimation for Global Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5178-5188.	4.9	6
85	Effects of Solar Invasion on Earth Observation Sensors at a Moon-Based Platform. Remote Sensing, 2019, 11, 2775.	4.0	3
86	Disparity Refinement in Depth Discontinuity Using Robustly Matched Straight Lines for Digital Surface Model Generation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 174-185.	4.9	13
87	PolSAR Image Semantic Segmentation Based on Deep Transfer Learningâ€”Realizing Smooth Classification With Small Training Sets. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 977-981.	3.1	67
88	Sea Ice Classification Using TerraSAR-X ScanSAR Data With Removal of Scalloping and Interscan Banding. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 589-598.	4.9	21
89	From Digital Earth to big Earth data: accelerating scientific discovery and supporting global sustainable development. International Journal of Digital Earth, 2019, 12, 1-1.	3.9	11
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91	Plans of Global Integrated Earth Observation. , 2019, , 245-259.		0
92	Analysis for observation angle of the Earth two-polar regions from Moon-based platform. , 2019, , .		0
93	A Global Hydrological Drought Index Dataset Based on Gravity Recovery and Climate Experiment (GRACE) Data. Water Resources Management, 2018, 32, 1275-1290.	3.9	34
94	Moon-based Earth observation: scientific concept and potential applications. International Journal of Digital Earth, 2018, 11, 546-557.	3.9	61
95	Observation scope and spatial coverage analysis for earth observation from a Moon-based platform. International Journal of Remote Sensing, 2018, 39, 5809-5833.	2.9	38
96	The Geometry Numerical Simulation and Analysis for Moon-Based Earth Observation. , 2018, , .		3
97	Fine-Scale Evaluation of Giant Panda Habitats and Countermeasures against the Future Impacts of Climate Change and Human Disturbance (2015â€“2050): A Case Study in Yaâ€™an, China. Sustainability, 2018, 10, 1081.	3.2	10
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100	High-Resolution PolSAR Scene Classification With Pretrained Deep Convnets and Manifold Polarimetric Parameters. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6159-6168.	6.3	29
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103	A Spatial Pattern Analysis of Frontier Passes in Chinaâ€™s Northern Silk Road Region Using a Scale Optimization BLR Archaeological Predictive Model. Heritage, 2018, 1, 15-32.	1.9	6
104	Urban Area Tomography Using a Sparse Representation Based Two-Dimensional Spectral Analysis Technique. Remote Sensing, 2018, 10, 109.	4.0	16
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107	Uncovering the ancient canal-based tuntian agricultural landscape at China's northwestern frontiers. Journal of Cultural Heritage, 2017, 23, 79-88.	3.3	19
108	Radar interferometry offers new insights into threats to the Angkor site. Science Advances, 2017, 3, e1601284.	10.3	61

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109	Research on SAR data integrated processing methodology oriented on earth environment factor inversions. International Journal of Digital Earth, 2017, 10, 657-674.	3.9	0
110	Extracting distribution and expansion of rubber plantations from Landsat imagery using the C5.0 decision tree method. Journal of Applied Remote Sensing, 2017, 11, 026011.	1.3	16
111	Big Earth Data: a new challenge and opportunity for Digital Earthâ€™s development. International Journal of Digital Earth, 2017, 10, 1-12.	3.9	129
112	Simulation Study of Geometric Characteristics and Coverage for Moon-Based Earth Observation in the Electro-Optical Region. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2431-2440.	4.9	39
113	Revealing the surge behaviour of the Yangtze River headwater glacier during 1989â€“2015 with TanDEM-X and Landsat images. Journal of Glaciology, 2017, 63, 382-386.	2.2	8
114	Ehlers pan-sharpening performance enhancement using HCS transform for n-band data sets. International Journal of Remote Sensing, 2017, 38, 4974-5002.	2.9	8
115	Combination of PolInSAR and LiDAR Techniques for Forest Height Estimation. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1218-1222.	3.1	19
116	Cloud removing method for daily snow mapping over Central Asia and Xinjiang, China. IOP Conference Series: Earth and Environmental Science, 2017, 57, 012048.	0.3	0
117	Assessing the impact of climatic parameters and their inter-annual seasonal variability on fire activity using time series satellite products in South China (2001â€“2014). Natural Hazards, 2017, 85, 1393-1416.	3.4	6
118	VHR GeoEye-1 imagery reveals an ancient water landscape at the Longcheng site, northern Chaohu Lake Basin (China). International Journal of Digital Earth, 2017, 10, 139-154.	3.9	18
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121	Big data drives the development of Earth science. Big Earth Data, 2017, 1, 1-3.	4.4	36
122	A Modified Normalized Difference Impervious Surface Index (MNDISI) for Automatic Urban Mapping from Landsat Imagery. Remote Sensing, 2017, 9, 942.	4.0	64
123	Monitoring Urban Dynamics in the Southeast U.S.A. Using Time-Series DMSP/OLS Nightlight Imagery. Remote Sensing, 2016, 8, 578.	4.0	69
124	Passive microwave remote sensing of lake freeze-thaw over High Mountain Asia. , 2016, , .		4
125	Moon-based visibility analysis for the observation of â€œThe Belt and Roadâ€• IOP Conference Series: Earth and Environmental Science, 2016, 46, 012049.	0.3	1
126	Simulation of moon-based observation for large-scale Earth science phenomena. , 2016, , .		9

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127	Noncircularity Parameters and Their Potential Applications in UHR MMW SAR Data Sets. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1547-1551.	3.1	13
128	Daily cloud free snow cover mapping over Central Asia and Xinjiang Province of China. , 2016, , .		0
129	Considerations on Geospatial Big Data. IOP Conference Series: Earth and Environmental Science, 2016, 46, 012058.	0.3	8
130	Monitoring the slope movement of the Shuping landslide in the Three Gorges Reservoir of China, using X-band time series SAR interferometry. Advances in Space Research, 2016, 57, 2487-2495.	2.6	20
131	Big Earth Data from space: a new engine for Earth science. Science Bulletin, 2016, 61, 505-513.	9.0	71
132	Unification of SAR image formation and post-processing for environmental remote sensing application. , 2016, , .		1
133	Individual Tree Delineation in Windbreaks Using Airborne-Laser-Scanning Data and Unmanned Aerial Vehicle Stereo Images. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1330-1334.	3.1	23
134	The Coverage Analysis for Moon-based Platform at Three- Polar Regions on Earth. IOP Conference Series: Earth and Environmental Science, 2016, 46, 012024.	0.3	9
135	A rapid glacier surge on Mount Tobe Feng, western China, 2015. Journal of Glaciology, 2016, 62, 407-409.	2.2	13
136	Moon-based earth observation for large scale geoscience phenomena. , 2016, , .		15
137	Coverage analysis on Global change sensitive regions from moon based observation. , 2016, , .		5
138	An approach to discrimination of sea ice from open water using SAR data. , 2016, , .		3
139	Consideration of variable atmospheric transmissivity in passive microwave snowpack retrievals over Tibetan Plateau. , 2016, , .		0
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145	Reconstructed Terrestrial Water Storage Change (Î”TWS) from 1948 to 2012 over the Amazon Basin with the Latest GRACE and GLDAS Products. Water Resources Management, 2016, 30, 279-294.	3.9	42
146	Earth observation from the manned low Earth orbit platforms. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 115, 103-118.	11.1	16
147	Compressive Sensing for Multibaseline Polarimetric SAR Tomography of Forested Areas. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 153-166.	6.3	36
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157	Big data for scientific research and discovery. International Journal of Digital Earth, 2015, 8, 1-2.	3.9	14
158	Urban Area SAR Image Man-Made Target Extraction Based on the Product Model and the Timeâ€“Frequency Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 943-952.	4.9	22
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160	Pixel- and feature-level fusion of hyperspectral and lidar data for urban land-use classification. International Journal of Remote Sensing, 2015, 36, 1618-1644.	2.9	59
161	Microwave soil moisture dynamics and response to climate change in Central Asia and Xinjiang Province, China, over the last 30Âyears. Journal of Applied Remote Sensing, 2015, 9, 096012.	1.3	10
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165	Assessing phenological change and climatic control of alpine grasslands in the Tibetan Plateau with MODIS time series. International Journal of Biometeorology, 2015, 59, 11-23.	3.0	64
166	Patterns and Potential Drivers of Dramatic Changes in Tibetan Lakes, 1972â€“2010. PLoS ONE, 2014, 9, e111890.	2.5	66
167	A Novel Land Cover Classification Map Based on a MODIS Time-Series in Xinjiang, China. Remote Sensing, 2014, 6, 3387-3408.	4.0	19
168	Synthetic Aperture Radar (SAR) Interferometry for Assessing Wenchuan Earthquake (2008) Deforestation in the Sichuan Giant Panda Site. Remote Sensing, 2014, 6, 6283-6299.	4.0	10
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