

Yongwei Sheng

List of Publications by Year in descending order

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72
papers

5,634
citations

126858

33
h-index

85498

71
g-index

73
all docs

73
docs citations

73
times ranked

6269
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Third Pole's Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 423-444.	1.7	590
2	Current status of Landsat program, science, and applications. <i>Remote Sensing of Environment</i> , 2019, 225, 127-147.	4.6	586
3	Rapid Early Development of Circumarctic Peatlands and Atmospheric CH ₄ and CO ₂ Variations. <i>Science</i> , 2006, 314, 285-288.	6.0	353
4	Recent global decline in endorheic basin water storages. <i>Nature Geoscience</i> , 2018, 11, 926-932.	5.4	282
5	Regional differences of lake evolution across China during 1960s-2015 and its natural and anthropogenic causes. <i>Remote Sensing of Environment</i> , 2019, 221, 386-404.	4.6	252
6	Mapping wetland changes in China between 1978 and 2008. <i>Science Bulletin</i> , 2012, 57, 2813-2823.	1.7	248
7	A regional-scale assessment of Himalayan glacial lake changes using satellite observations from 1990 to 2015. <i>Remote Sensing of Environment</i> , 2017, 189, 1-13.	4.6	240
8	Response of inland lake dynamics over the Tibetan Plateau to climate change. <i>Climatic Change</i> , 2014, 125, 281-290.	1.7	225
9	Coherent lake growth on the central Tibetan Plateau since the 1970s: Characterization and attribution. <i>Journal of Hydrology</i> , 2013, 483, 61-67.	2.3	191
10	Monitoring decadal lake dynamics across the Yangtze Basin downstream of Three Gorges Dam. <i>Remote Sensing of Environment</i> , 2014, 152, 251-269.	4.6	178
11	An automated scheme for glacial lake dynamics mapping using Landsat imagery and digital elevation models: a case study in the Himalayas. <i>International Journal of Remote Sensing</i> , 2012, 33, 5194-5213.	1.3	176
12	Representative lake water extent mapping at continental scales using multi-temporal Landsat-8 imagery. <i>Remote Sensing of Environment</i> , 2016, 185, 129-141.	4.6	175
13	Efficient meltwater drainage through supraglacial streams and rivers on the southwest Greenland ice sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1001-1006.	3.3	163
14	A high-resolution GIS-based inventory of the west Siberian peat carbon pool. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	162
15	A first pan-Arctic assessment of the influence of glaciation, permafrost, topography and peatlands on northern hemisphere lake distribution. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 201-208.	1.5	154
16	An inventory of historical glacial lake outburst floods in the Himalayas based on remote sensing observations and geomorphological analysis. <i>Geomorphology</i> , 2018, 308, 91-106.	1.1	132
17	Glacial lake evolution in the southeastern Tibetan Plateau and the cause of rapid expansion of proglacial lakes linked to glacial-hydrogeomorphic processes. <i>Journal of Hydrology</i> , 2016, 540, 504-514.	2.3	80
18	Heterogeneous glacial lake changes and links of lake expansions to the rapid thinning of adjacent glacier termini in the Himalayas. <i>Geomorphology</i> , 2017, 280, 30-38.	1.1	80

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19	Little impact of the Tibetan Plateau on recent decadal lake decline across China's Yangtze Plain. <i>Water Resources Research</i> , 2017, 53, 3854-3877.	1.7	75
20	Lake seasonality across the Tibetan Plateau and their varying relationship with regional mass changes and local hydrology. <i>Geophysical Research Letters</i> , 2017, 44, 892-900.	1.5	72
21	An Adaptive Water Extraction Method from Remote Sensing Image Based on NDWI. <i>Journal of the Indian Society of Remote Sensing</i> , 2012, 40, 421-433.	1.2	67
22	Characterization of surface water storage changes in Arctic lakes using simulated SWOT measurements. <i>International Journal of Remote Sensing</i> , 2010, 31, 3931-3953.	1.3	66
23	Contrasting evolution patterns between glacier-fed and non-glacier-fed lakes in the Tanggula Mountains and climate cause analysis. <i>Climatic Change</i> , 2016, 135, 493-507.	1.7	60
24	A Global Assessment of Terrestrial Evapotranspiration Increase Due to Surface Water Area Change. <i>Earth's Future</i> , 2019, 7, 266-282.	2.4	60
25	GeoDAR: georeferenced global dams and reservoirs dataset for bridging attributes and geolocations. <i>Earth System Science Data</i> , 2022, 14, 1869-1899.	3.7	58
26	Automated georeferencing and orthorectification of Amazon basin-wide SAR mosaics using SRTM DEM data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1929-1940.	2.7	50
27	Automated Image Registration for Hydrologic Change Detection in the Lake-Rich Arctic. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 414-418.	1.4	50
28	Glacier mass loss induced the rapid growth of Linggo Co on the central Tibetan Plateau. <i>Journal of Glaciology</i> , 2012, 58, 177-184.	1.1	50
29	Combined ICESat and CryoSat-2 Altimetry for Accessing Water Level Dynamics of Tibetan Lakes over 2003-2014. <i>Water (Switzerland)</i> , 2015, 7, 4685-4700.	1.2	50
30	Evaporative enrichment of oxygen-18 and deuterium in lake waters on the Tibetan Plateau. <i>Journal of Paleolimnology</i> , 2011, 46, 291-307.	0.8	46
31	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Geomorphic Controls on Bathymetry. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 218-230.	1.5	45
32	Holocene climatic optimum in the East Asian monsoon region of China defined by climatic stability. <i>Earth-Science Reviews</i> , 2021, 212, 103450.	4.0	41
33	Melting of small Arctic ice caps observed from ERS scatterometer time series. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	40
34	Geomorphic impact and rapid subsequent recovery from the 1996 Skeiðarársandur jökulhlaup, Iceland, measured with multi-year airborne lidar. <i>Geomorphology</i> , 2006, 75, 65-75.	1.1	30
35	Improving the Transferability of Suspended Solid Estimation in Wetland and Deltaic Waters with an Empirical Hyperspectral Approach. <i>Remote Sensing</i> , 2019, 11, 1629.	1.8	29
36	Automated Image Registration Based on Pseudoinvariant Metrics of Dynamic Land-Surface Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 3908-3916.	2.7	28

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37	Drained thaw lake basin recovery on the western Arctic Coastal Plain of Alaska using high-resolution digital elevation models and remote sensing imagery. <i>Remote Sensing of Environment</i> , 2012, 119, 325-336.	4.6	28
38	Quantifying sources of error in multitemporal multisensor lake mapping. <i>International Journal of Remote Sensing</i> , 2013, 34, 7887-7905.	1.3	27
39	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Spatial and Temporal Variability in Summer Water Temperature. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 207-217.	1.5	26
40	Influence of permafrost on water storage in West Siberian peatlands revealed from a new database of soil properties. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 69-79.	1.5	24
41	Impact of amplified evaporation due to lake expansion on the water budget across the inner Tibetan Plateau. <i>International Journal of Climatology</i> , 2020, 40, 2091-2105.	1.5	24
42	Constraining the contribution of glacier mass balance to the Tibetan lake growth in the early 21st century. <i>Remote Sensing of Environment</i> , 2022, 268, 112779.	4.6	21
43	Ongoing Drainage Reorganization Driven by Rapid Lake Growths on the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095795.	1.5	21
44	Quantifying the Size of a Lidar Footprint: A Set of Generalized Equations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 419-422.	1.4	20
45	Characteristics of $\delta^{13}C_{DIC}$ in lakes on the Tibetan Plateau and its implications for the carbon cycle. <i>Hydrological Processes</i> , 2012, 26, 535-543.	1.1	18
46	Mega-lakes in the northwestern Tibetan Plateau formed by melting glaciers during the last deglacial. <i>Quaternary Science Reviews</i> , 2022, 285, 107528.	1.4	18
47	Regional lake ice meltout patterns near Barrow, Alaska. <i>Polar Geography</i> , 2012, 35, 1-18.	0.8	17
48	Holocene environment changes around the Sara Us River, northern China, revealed by optical dating of lacustrine aeolian sediments. <i>Journal of Asian Earth Sciences</i> , 2016, 120, 184-191.	1.0	14
49	High-Resolution Spaceborne, Airborne and In Situ Landslide Kinematic Measurements of the Slumgullion Landslide in Southwest Colorado. <i>Remote Sensing</i> , 2019, 11, 265.	1.8	14
50	Minimising algorithm-induced artefacts in true ortho-image generation: a direct method implemented in the vector domain. <i>Photogrammetric Record</i> , 2007, 22, 151-163.	0.4	13
51	Model-Based Conifer Canopy Surface Reconstruction from Photographic Imagery. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003, 69, 249-258.	0.3	12
52	LakeTime: Automated Seasonal Scene Selection for Global Lake Mapping Using Landsat ETM+ and OLI. <i>Remote Sensing</i> , 2018, 10, 54.	1.8	12
53	Automated Water Level Monitoring at the Continental Scale from ICESat-2 Photons. <i>Remote Sensing</i> , 2021, 13, 3631.	1.8	12
54	Comparative evaluation of iterative and non-iterative methods to ground coordinate determination from single aerial images. <i>Computers and Geosciences</i> , 2004, 30, 267-279.	2.0	11

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55	PaleoLakeR: A Semiautomated Tool for Regional-Scale Paleolake Recovery Using Geospatial Information Technologies. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 797-801.	1.4	11
56	Remote Sensing Applications in Monitoring of Protected Areas. <i>Remote Sensing</i> , 2020, 12, 1370.	1.8	11
57	Response of downstream lakes to Aru glacier collapses on the western Tibetan Plateau. <i>Cryosphere</i> , 2021, 15, 199-214.	1.5	11
58	High-precise water extraction based on spectral-spatial coupled remote sensing information. , 2010, , .		10
59	Groundwater net discharge rates estimated from lake level change in Badain Jaran Desert, Northwest China. <i>Science China Earth Sciences</i> , 2020, 63, 713-725.	2.3	9
60	Application of Semi-Automated Filter to Improve Waveform Lidar Sub-Canopy Elevation Model. <i>Remote Sensing</i> , 2012, 4, 1494-1518.	1.8	8
61	Reservoir Induced Deformation Analysis for Several Filling and Operational Scenarios at the Grand Ethiopian Renaissance Dam Impoundment. <i>Remote Sensing</i> , 2020, 12, 1886.	1.8	8
62	Reconsideration of wind stress, wind waves, and turbulence in simulating wind-driven currents of shallow lakes in the Wave and Current Coupled Model (WCCM) version 1.0. <i>Geoscientific Model Development</i> , 2022, 15, 745-769.	1.3	8
63	A Fast Algorithm to Estimate the Deepest Points of Lakes for Regional Lake Registration. <i>PLoS ONE</i> , 2015, 10, e0144700.	1.1	7
64	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 5189-5198.	2.3	7
65	Landsat-derived bathymetry of lakes on the Arctic Coastal Plain of northern Alaska. <i>Earth System Science Data</i> , 2021, 13, 1135-1150.	3.7	6
66	Lake shrinkage analysis using spectral-spatial coupled remote sensing on Tibetan Plateau. , 2010, , .		5
67	A high temporal resolution data set of ERS scatterometer radar backscatter for research in Arctic and sub-Arctic regions. <i>Polar Record</i> , 2002, 38, 115-120.	0.4	4
68	ICESat-derived lithospheric flexure as caused by an endorheic lake's expansion on the Tibetan Plateau and the comparison to modeled flexural responses. <i>Journal of Asian Earth Sciences</i> , 2017, 148, 142-152.	1.0	4
69	Oasis evolution processes and mechanisms in the lower reaches of Heihe River, Inner Mongolia, China since 1 ka ago. <i>Holocene</i> , 2015, 25, 445-453.	0.9	2
70	The contribution of wind wave changes on diminishing ice period in Lake Pyhäjärvi during the last half-century. <i>Environmental Science and Pollution Research</i> , 2018, 25, 24895-24906.	2.7	2
71	Coulomb stress analysis for several filling and operational scenarios at the Grand Ethiopian Renaissance Dam impoundment. <i>Environmental Earth Sciences</i> , 2021, 80, 286.	1.3	2
72	A Multitemporal Remote Sensing Image Registration Method Based on Water Bodies for the Lake-Rich Region. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 4327-4341.	2.3	1