

G R Brakenridge

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

7,655
citations

117625

34
h-index

168389

53
g-index

64
all docs

64
docs citations

64
times ranked

7982
citing authors

#	ARTICLE	IF	CITATIONS
1	Sinking deltas due to human activities. <i>Nature Geoscience</i> , 2009, 2, 681-686.	12.9	1,823
2	Provenance of North American Phanerozoic sandstones in relation to tectonic setting. <i>Bulletin of the Geological Society of America</i> , 1983, 94, 222.	3.3	1,295
3	Flood risk and climate change: global and regional perspectives. <i>Hydrological Sciences Journal</i> , 2014, 59, 1-28.	2.6	998
4	Satellite imaging reveals increased proportion of population exposed to floods. <i>Nature</i> , 2021, 596, 80-86.	27.8	402
5	Large floods in Europe, 1985–2009. <i>Hydrological Sciences Journal</i> , 2013, 58, 1-7.	2.6	242
6	Satellite Remote Sensing and Hydrologic Modeling for Flood Inundation Mapping in Lake Victoria Basin: Implications for Hydrologic Prediction in Ungauged Basins. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 85-95.	6.3	215
7	Orbital microwave measurement of river discharge and ice status. <i>Water Resources Research</i> , 2007, 43, .	4.2	156
8	A digitized global flood inventory (1998–2008): compilation and preliminary results. <i>Natural Hazards</i> , 2010, 55, 405-422.	3.4	151
9	Automated global water mapping based on wide-swath orbital synthetic-aperture radar. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 651-663.	4.9	130
10	Ancient hot springs on Mars: Origins and paleoenvironmental significance of small Martian valleys. <i>Geology</i> , 1985, 13, 859.	4.4	115
11	Calibration of satellite measurements of river discharge using a global hydrology model. <i>Journal of Hydrology</i> , 2012, 475, 123-136.	5.4	112
12	Space-based measurement of river runoff. <i>Eos</i> , 2005, 86, 185.	0.1	110
13	Near-real-time non-obstructed flood inundation mapping using synthetic aperture radar. <i>Remote Sensing of Environment</i> , 2019, 221, 302-315.	11.0	103
14	How important and different are tropical rivers? – An overview. <i>Geomorphology</i> , 2014, 227, 5-17.	2.6	96
15	Assisting Flood Disaster Response with Earth Observation Data and Products: A Critical Assessment. <i>Remote Sensing</i> , 2018, 10, 1230.	4.0	94
16	Wetland monitoring with Global Navigation Satellite System reflectometry. <i>Earth and Space Science</i> , 2017, 4, 16-39.	2.6	91
17	River gauging at global scale using optical and passive microwave remote sensing. <i>Water Resources Research</i> , 2016, 52, 6404-6418.	4.2	87
18	Orbital SAR remote sensing of a river flood wave. <i>International Journal of Remote Sensing</i> , 1998, 19, 1439-1445.	2.9	85

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19	Estimating Floodwater Depths from Flood Inundation Maps and Topography. <i>Journal of the American Water Resources Association</i> , 2018, 54, 847-858.	2.4	85
20	Evidence for a Cold, Dry Full-Glacial Climate in the American Southwest. <i>Quaternary Research</i> , 1978, 9, 22-40.	1.7	83
21	Floods, floodplains, delta plains – A satellite imaging approach. <i>Sedimentary Geology</i> , 2012, 267-268, 1-14.	2.1	81
22	On the Use of Global Flood Forecasts and Satellite-Derived Inundation Maps for Flood Monitoring in Data-Sparse Regions. <i>Remote Sensing</i> , 2015, 7, 15702-15728.	4.0	77
23	Causation and avoidance of catastrophic flooding along the Indus River, Pakistan. <i>GSA Today</i> , 2013, 23, 4-10.	2.0	76
24	Alluvial stratigraphy and radiocarbon dating along the Duck River, Tennessee: Implications regarding flood-plain origin. <i>Bulletin of the Geological Society of America</i> , 1984, 95, 9.	3.3	73
25	Upstream satellite remote sensing for river discharge forecasting: Application to major rivers in South Asia. <i>Remote Sensing of Environment</i> , 2013, 131, 140-151.	11.0	70
26	Changes in river flood hazard in Europe: a review. <i>Hydrology Research</i> , 2018, 49, 294-302.	2.7	69
27	Global mapping of storm surges and the assessment of coastal vulnerability. <i>Natural Hazards</i> , 2013, 66, 1295-1312.	3.4	60
28	Anthropocene metamorphosis of the Indus Delta and lower floodplain. <i>Anthropocene</i> , 2013, 3, 24-35.	3.3	58
29	Widespread episodes of stream erosion during the Holocene and their climatic cause. <i>Nature</i> , 1980, 283, 655-656.	27.8	52
30	Design with nature: Causation and avoidance of catastrophic flooding, Myanmar. <i>Earth-Science Reviews</i> , 2017, 165, 81-109.	9.1	52
31	Evaluation of the satellite-based Global Flood Detection System for measuring river discharge: influence of local factors. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4467-4484.	4.9	50
32	Microwave Satellite Data for Hydrologic Modeling in Ungauged Basins. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 663-667.	3.1	44
33	The Floodwater Depth Estimation Tool (FwDET v2.0) for improved remote sensing analysis of coastal flooding. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2053-2065.	3.6	43
34	Radar remote sensing aids study of the Great Flood of 1993. <i>Eos</i> , 1994, 75, 521-527.	0.1	40
35	Late Quaternary Floodplain Sedimentation along the Pomme de Terre River, Southern Missouri. <i>Quaternary Research</i> , 1981, 15, 62-76.	1.7	36
36	Unlocking the full potential of Earth observation during the 2015 Texas flood disaster. <i>Water Resources Research</i> , 2016, 52, 3288-3293.	4.2	34

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37	Towards high resolution flood monitoring: An integrated methodology using passive microwave brightness temperatures and Sentinel synthetic aperture radar imagery. <i>Journal of Hydrology</i> , 2020, 582, 124377.	5.4	29
38	Will the Surface Water and Ocean Topography (SWOT) Satellite Mission Observe Floods?. <i>Geophysical Research Letters</i> , 2019, 46, 10435-10445.	4.0	28
39	Terrestrial paleoenvironmental effects of a late quaternary-age supernova. <i>Icarus</i> , 1981, 46, 81-93.	2.5	22
40	Rate estimates for lateral bedrock erosion based on radiocarbon ages, Duck River, Tennessee. <i>Geology</i> , 1985, 13, 111.	4.4	20
41	Fluvial Sedimentation in Response to Postglacial Uplift and Environmental Change, Missisquoi River, Vermont. <i>Quaternary Research</i> , 1988, 30, 190-203.	1.7	17
42	Can Atmospheric Reanalysis Data Sets Be Used to Reproduce Flooding Over Large Scales?. <i>Geophysical Research Letters</i> , 2017, 44, 10,369.	4.0	16
43	River responses. , 0, , 221-240.		16
44	Core-collapse supernovae and the Younger Dryas/terminal Rancholabrean extinctions. <i>Icarus</i> , 2011, 215, 101-106.	2.5	14
45	Google Earth Engine Implementation of the Floodwater Depth Estimation Tool (FwDET-GEE) for Rapid and Large Scale Flood Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	13
46	Appalachian mountains and plateaus. , 0, , 5-50.		13
47	L-Band Passive Microwave Data from SMOS for River Gauging Observations in Tropical Climates. <i>Remote Sensing</i> , 2019, 11, 835.	4.0	12
48	Changing Floods in Europe. , 2019, , 83-96.		12
49	DFOâ€”Flood Observatory. , 2021, , 147-164.		9
50	Monitoring water discharge and floodplain connectivity for the northern Andes utilizing satellite data: A tool for river planning and science-based decision-making. <i>Journal of Hydrology</i> , 2020, 586, 124887.	5.4	6
51	Microwave satellite data to quantify effects of global climate change on arctic rivers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
52	Merged AMSR-E/AMSR-2 and GPM Passive Microwave Radiometry for Measuring River Floods, Runoff, and Ice Cover. , 2021, , 337-360.		4
53	River gaging reaches: a strategy for MODIS-based river monitoring. , 2003, , .		3
54	Satellite-Based Estimation of Water Discharge and Runoff in the Magdalena River, Northern Andes of Colombia. <i>Springer Remote Sensing/photogrammetry</i> , 2017, , 3-19.	0.4	3

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55	Solar system exposure to supernova $\hat{\gamma}$ radiation. International Journal of Astrobiology, 2021, 20, 48-61.	1.6	3
56	Discussion of "Gradational Thresholds and Landform Singularity: Significance for Quaternary Studies". Quaternary Research, 1985, 23, 417-419.	1.7	2
57	Estimating floodwater depths from flood inundation maps and topography. , 2018, , .		2