

Bernhard Lehner

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

16,558
citations

81743

39
h-index

95083

68
g-index

79
all docs

79
docs citations

79
times ranked

18240
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and validation of a global database of lakes, reservoirs and wetlands. <i>Journal of Hydrology</i> , 2004, 296, 1-22.	2.3	1,867
2	High-resolution mapping of the world's reservoirs and dams for sustainable river-flow management. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 494-502.	1.9	1,540
3	New Global Hydrography Derived From Spaceborne Elevation Data. <i>Eos</i> , 2008, 89, 93-94.	0.1	1,405
4	Mapping the world's free-flowing rivers. <i>Nature</i> , 2019, 569, 215-221.	13.7	1,249
5	A global hydrological model for deriving water availability indicators: model tuning and validation. <i>Journal of Hydrology</i> , 2003, 270, 105-134.	2.3	911
6	Global river hydrography and network routing: baseline data and new approaches to study the world's large river systems. <i>Hydrological Processes</i> , 2013, 27, 2171-2186.	1.1	871
7	Global mapping of ecosystem services and conservation priorities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9495-9500.	3.3	823
8	Estimating the volume and age of water stored in global lakes using a geo-statistical approach. <i>Nature Communications</i> , 2016, 7, 13603.	5.8	789
9	Estimating the Impact of Global Change on Flood and Drought Risks in Europe: A Continental, Integrated Analysis. <i>Climatic Change</i> , 2006, 75, 273-299.	1.7	670
10	Development and testing of the WaterGAP 2 global model of water use and availability. <i>Hydrological Sciences Journal</i> , 2003, 48, 317-337.	1.2	663
11	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2011, 47, .	1.7	634
12	Water on an urban planet: Urbanization and the reach of urban water infrastructure. <i>Global Environmental Change</i> , 2014, 27, 96-105.	3.6	511
13	An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales. <i>Environmental Research Letters</i> , 2015, 10, 015001.	2.2	439
14	Unlocking the potential of protected areas for freshwaters. <i>Biological Conservation</i> , 2007, 134, 48-63.	1.9	420
15	Global estimates of water withdrawals and availability under current and future "business-as-usual" conditions. <i>Hydrological Sciences Journal</i> , 2003, 48, 339-348.	1.2	353
16	The impact of global change on the hydropower potential of Europe: a model-based analysis. <i>Energy Policy</i> , 2005, 33, 839-855.	4.2	273
17	Global hydro-environmental sub-basin and river reach characteristics at high spatial resolution. <i>Scientific Data</i> , 2019, 6, 283.	2.4	246
18	Global patterns and dynamics of climate-groundwater interactions. <i>Nature Climate Change</i> , 2019, 9, 137-141.	8.1	244

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19	Validation of a new global 30-min drainage direction map. <i>Journal of Hydrology</i> , 2002, 258, 214-231.	2.3	223
20	Global prevalence of non-perennial rivers and streams. <i>Nature</i> , 2021, 594, 391-397.	13.7	221
21	Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. <i>Remote Sensing of Environment</i> , 2015, 158, 348-361.	4.6	213
22	Remote sensing of floodplain geomorphology as a surrogate for biodiversity in a tropical river system (Madre de Dios, Peru). <i>Geomorphology</i> , 2007, 89, 23-38.	1.1	158
23	A Global Assessment of Inland Wetland Conservation Status. <i>BioScience</i> , 2017, 67, 523-533.	2.2	152
24	Freshwater conservation planning in data-poor areas: An example from a remote Amazonian basin (Madre de Dios River, Peru and Bolivia). <i>Biological Conservation</i> , 2007, 135, 484-501.	1.9	104
25	Development of new indicators to evaluate river fragmentation and flow regulation at large scales: A case study for the Mekong River Basin. <i>Ecological Indicators</i> , 2014, 45, 148-159.	2.6	102
26	The Water Planetary Boundary: Interrogation and Revision. <i>One Earth</i> , 2020, 2, 223-234.	3.6	98
27	Illuminating water cycle modifications and Earth system resilience in the Anthropocene. <i>Water Resources Research</i> , 2020, 56, e2019WR024957.	1.7	86
28	High-resolution global topographic index values for use in large-scale hydrological modelling. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 91-104.	1.9	85
29	Looking Beyond the Fenceline: Assessing Protection Gaps for the World's Rivers. <i>Conservation Letters</i> , 2017, 10, 384-394.	2.8	85
30	Climate-related hydrological change and human vulnerability in remote mountain regions: a case study from Khumbu, Nepal. <i>Regional Environmental Change</i> , 2013, 13, 299-310.	1.4	81
31	Evaluating the impacts of climate change and crop land use change on streamflow, nitrates and phosphorus: A modeling study in Bavaria. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 60-90.	1.0	74
32	Unexpected large evasion fluxes of carbon dioxide from turbulent streams draining the world's mountains. <i>Nature Communications</i> , 2019, 10, 4888.	5.8	71
33	A multidisciplinary framework to derive global river reach classifications at high spatial resolution. <i>Environmental Research Letters</i> , 2019, 14, 024003.	2.2	65
34	A Global Dynamic Long-Term Inundation Extent Dataset at High Spatial Resolution Derived through Downscaling of Satellite Observations. <i>Journal of Hydrometeorology</i> , 2017, 18, 1305-1325.	0.7	62
35	Identifying key ecosystem service providing areas to inform national-scale conservation planning. <i>Environmental Research Letters</i> , 2021, 16, 014038.	2.2	55
36	Simulated impacts of climate change and agricultural land use change on surface water quality with and without adaptation management strategies. <i>Agriculture, Ecosystems and Environment</i> , 2015, 213, 47-60.	2.5	48

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37	Distribution and characteristics of wastewater treatment plants within the global river network. <i>Earth System Science Data</i> , 2022, 14, 559-577.	3.7	45
38	Freshwater biodiversity conservation through source water protection: Quantifying the potential and addressing the challenges. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 1022-1038.	0.9	43
39	Risk assessment of down-the-drain chemicals at large spatial scales: Model development and application to contaminants originating from urban areas in the Saint Lawrence River Basin. <i>Science of the Total Environment</i> , 2016, 541, 825-838.	3.9	42
40	Comparison of visible and multi-satellite global inundation datasets at high-spatial resolution. <i>Remote Sensing of Environment</i> , 2018, 216, 427-441.	4.6	42
41	Modeling variable river flow velocity on continental scale: Current situation and climate change impacts in Europe. <i>Journal of Hydrology</i> , 2012, 424-425, 238-251.	2.3	40
42	Natural Lakes Are a Minor Global Source of N ₂ O to the Atmosphere. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1564-1581.	1.9	40
43	Dams and protected areas: Quantifying the spatial and temporal extent of global dam construction within protected areas. <i>Conservation Letters</i> , 2020, 13, e12719.	2.8	38
44	Exposure of Africa's freshwater biodiversity to a changing climate. <i>Conservation Letters</i> , 2010, 3, 324-331.	2.8	35
45	Navigating trade-offs between dams and river conservation. <i>Global Sustainability</i> , 2021, 4, .	1.6	32
46	Analysis of streamflow characteristics over Northeastern Canada in a changing climate. <i>Climate Dynamics</i> , 2013, 40, 1879-1901.	1.7	31
47	Reply to comment by Keith J. Beven and Hannah L. Cloke on "Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water". <i>Water Resources Research</i> , 2012, 48, .	1.7	26
48	Estimating the eco-toxicological risk of estrogens in China's rivers using a high-resolution contaminant fate model. <i>Water Research</i> , 2018, 145, 707-720.	5.3	25
49	Impacts of loss of free-flowing rivers on global freshwater megafauna. <i>Biological Conservation</i> , 2021, 263, 109335.	1.9	23
50	An Integrated Analysis of Changes in Water Stress in Europe. <i>Integrated Assessment: an International Journal</i> , 2002, 3, 15-29.	0.8	22
51	Modelling crop land use change derived from influencing factors selected and ranked by farmers in North temperate agricultural regions. <i>Science of the Total Environment</i> , 2018, 631-632, 407-420.	3.9	21
52	Global hydro-environmental lake characteristics at high spatial resolution. <i>Scientific Data</i> , 2022, 9, .	2.4	20
53	Opportunities for natural infrastructure to improve urban water security in Latin America. <i>PLoS ONE</i> , 2018, 13, e0209470.	1.1	15
54	Evaluating the Importance of Non-Unique Behavioural Parameter Sets on Surface Water Quality Variables under Climate Change Conditions in a Mesoscale Agricultural Watershed. <i>Water Resources Management</i> , 2018, 32, 619-639.	1.9	14

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55	Multidisciplinary classification of Canadian river reaches to support the sustainable management of freshwater systems. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 326-341.	0.7	9
56	Identifying priority areas for surface water protection in data scarce regions: An integrated spatial analysis for Zambia. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 1998-2016.	0.9	9
57	Do we prioritize floodplains for development and farming? Mapping global dependence and exposure to inundation. Global Environmental Change, 2021, 71, 102370.	3.6	8
58	Setting priorities for climate change adaptation of Critical Sites in the Africa-Eurasian waterbird flyways. Global Change Biology, 2022, 28, 739-752.	4.2	7
59	Global Dam Watch: curated data and tools for management and decision making. Environmental Research: Infrastructure and Sustainability, 2021, 1, 033003.	0.9	7
60	Climate change exposure of waterbird species in the African-Eurasian flyways. Bird Conservation International, 2022, 32, 1-26.	0.7	6
61	The relationship between watershed protection and water quality: The case of QuÃ©bec, Canada. Freshwater Science, 2021, 40, 382-396.	0.9	6
62	European rivers are fragmented by many more barriers than had been recorded. Nature, 2020, 588, 395-396.	13.7	6
63	Reply to Comment on "An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales"™. Environmental Research Letters, 2017, 12, 038002.	2.2	5
64	Spatial variability of ecosystem exposure to home and personal care chemicals in Asia. Environment International, 2020, 134, 105260.	4.8	5
65	Aquatic areas of ecological importance as inputs into surface water resource protection areas in Zambia. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 1983-1997.	0.9	5
66	Freshwater Lakes and Reservoirs. , 2016, , 1-18.		4
67	Indicators for Assessing Threats to Freshwater Biodiversity from Humans and Human-Shaped Landscapes. Ecological Studies, 2011, , 103-124.	0.4	4
68	Freshwater Lakes and Reservoirs. , 2018, , 125-141.		3
69	Determining agricultural land use scenarios in a mesoscale Bavarian watershed for modelling future water quality. Advances in Geosciences, 0, 31, 9-14.	12.0	2
70	Simulated future changes of extreme nutrient loads in a mesoscale agricultural watershed in Bavaria / Simulierte zukÃ¼nftige Ã„nderungen der Extremwerte fÃ¼r NÃ¤hrstofffrachten in einem mesoskaligen landwirtschaftlichen Einzugsgebiet in Bayern. Bodenkultur, 2016, 67, 77-90.	0.1	1
71	Freshwater Lakes and Reservoirs. , 2017, , 1-18.		0