Bernhard Lehner

List of Publications by Year
in descending order

71	16,558	81900 39	95266 68
papers	citations	h-index	g-index

79	79	79	18240
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate change exposure of waterbird species in the African-Eurasian flyways. Bird Conservation International, 2022, 32, 1-26.	1.3	6
2	Setting priorities for climate change adaptation of Critical Sites in the Africaâ€Eurasian waterbird flyways. Global Change Biology, 2022, 28, 739-752.	9.5	7
3	Distribution and characteristics of wastewater treatment plants within the global river network. Earth System Science Data, 2022, 14, 559-577.	9.9	45
4	Global hydro-environmental lake characteristics at high spatial resolution. Scientific Data, 2022, 9, .	5.3	20
5	Navigating trade-offs between dams and river conservation. Global Sustainability, 2021, 4, .	3.3	32
6	Identifying key ecosystem service providing areas to inform national-scale conservation planning. Environmental Research Letters, 2021, 16, 014038.	5.2	55
7	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.	2.0	9
8	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.	2.0	5
9	The relationship between watershed protection and water quality: The case of QuÃ©bec, Canada. Freshwater Science, 2021, 40, 382-396.	1.8	6
10	Global prevalence of non-perennial rivers and streams. Nature, 2021, 594, 391-397.	27.8	221
11	Global Dam Watch: curated data and tools for management and decision making. Environmental Research: Infrastructure and Sustainability, 2021, 1, 033003.	2.3	7
12	Impacts of loss of free-flowing rivers on global freshwater megafauna. Biological Conservation, 2021, 263, 109335.	4.1	23
13	Do we prioritize floodplains for development and farming? Mapping global dependence and exposure to inundation. Global Environmental Change, 2021, 71, 102370.	7.8	8
14	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.	1.4	9
15	Illuminating water cycle modifications and Earth system resilience in the Anthropocene. Water Resources Research, 2020, 56, e2019WR024957.	4.2	86
16	Spatial variability of ecosystem exposure to home and personal care chemicals in Asia. Environment International, 2020, 134, 105260.	10.0	5
17	Dams and protected areas: Quantifying the spatial and temporal extent of global dam construction within protected areas. Conservation Letters, 2020, 13, e12719.	5.7	38
18	The Water Planetary Boundary: Interrogation and Revision. One Earth, 2020, 2, 223-234.	6.8	98

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19	European rivers are fragmented by many more barriers than had been recorded. Nature, 2020, 588, 395-396.	27.8	6
20	Unexpected large evasion fluxes of carbon dioxide from turbulent streams draining the worldâ€™s mountains. Nature Communications, 2019, 10, 4888.	12.8	71
21	Natural Lakes Are a Minor Global Source of N₂O to the Atmosphere. Global Biogeochemical Cycles, 2019, 33, 1564-1581.	4.9	40
22	A multidisciplinary framework to derive global river reach classifications at high spatial resolution. Environmental Research Letters, 2019, 14, 024003.	5.2	65
23	Global patterns and dynamics of climateâ€“groundwater interactions. Nature Climate Change, 2019, 9, 137-141.	18.8	244
24	Freshwater biodiversity conservation through source water protection: Quantifying the potential and addressing the challenges. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 1022-1038.	2.0	43
25	Mapping the worldâ€™s free-flowing rivers. Nature, 2019, 569, 215-221.	27.8	1,249
26	Global hydro-environmental sub-basin and river reach characteristics at high spatial resolution. Scientific Data, 2019, 6, 283.	5.3	246
27	Evaluating the Importance of Non-Unique Behavioural Parameter Sets on Surface Water Quality Variables under Climate Change Conditions in a Mesoscale Agricultural Watershed. Water Resources Management, 2018, 32, 619-639.	3.9	14
28	Modelling crop land use change derived from influencing factors selected and ranked by farmers in North temperate agricultural regions. Science of the Total Environment, 2018, 631-632, 407-420.	8.0	21
29	Opportunities for natural infrastructure to improve urban water security in Latin America. PLoS ONE, 2018, 13, e0209470.	2.5	15
30	Estimating the eco-toxicological risk of estrogens in China's rivers using a high-resolution contaminant fate model. Water Research, 2018, 145, 707-720.	11.3	25
31	Freshwater Lakes and Reservoirs. , 2018, , 125-141.		3
32	Comparison of visible and multi-satellite global inundation datasets at high-spatial resolution. Remote Sensing of Environment, 2018, 216, 427-441.	11.0	42
33	A Global Dynamic Long-Term Inundation Extent Dataset at High Spatial Resolution Derived through Downscaling of Satellite Observations. Journal of Hydrometeorology, 2017, 18, 1305-1325.	1.9	62
34	A Global Assessment of Inland Wetland Conservation Status. BioScience, 2017, 67, 523-533.	4.9	152
35	Reply to Comment on â€˜An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scalesâ€™. Environmental Research Letters, 2017, 12, 038002.	5.2	5
36	Looking Beyond the Fenceline: Assessing Protection Gaps for the World's Rivers. Conservation Letters, 2017, 10, 384-394.	5.7	85

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37	Freshwater Lakes and Reservoirs. , 2017, , 1-18.		0
38	Estimating the volume and age of water stored in global lakes using a geo-statistical approach. Nature Communications, 2016, 7, 13603.	12.8	789
39	Freshwater Lakes and Reservoirs. , 2016, , 1-18.		4
40	Simulated future changes of extreme nutrient loads in a mesoscale agricultural watershed in Bavaria / Simulierte zukÃ¼nftige Ã„nderungen der Extremwerte fÃ¼r NÃhrstofffrachten in einem mesoskaligen landwirtschaftlichen Einzugsgebiet in Bayern. Bodenkultur, 2016, 67, 77-90.	0.2	1
41	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. Science of the Total Environment, 2016, 541, 825-838.	8.0	42
42	Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. Remote Sensing of Environment, 2015, 158, 348-361.	11.0	213
43	An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales. Environmental Research Letters, 2015, 10, 015001.	5.2	439
44	Simulated impacts of climate change and agricultural land use change on surface water quality with and without adaptation management strategies. Agriculture, Ecosystems and Environment, 2015, 213, 47-60.	5.3	48
45	Evaluating the impacts of climate change and crop land use change on streamflow, nitrates and phosphorus: A modeling study in Bavaria. Journal of Hydrology: Regional Studies, 2015, 4, 60-90.	2.4	74
46	High-resolution global topographic index values for use in large-scale hydrological modelling. Hydrology and Earth System Sciences, 2015, 19, 91-104.	4.9	85
47	Development of new indicators to evaluate river fragmentation and flow regulation at large scales: A case study for the Mekong River Basin. Ecological Indicators, 2014, 45, 148-159.	6.3	102
48	Water on an urban planet: Urbanization and the reach of urban water infrastructure. Global Environmental Change, 2014, 27, 96-105.	7.8	511
49	Global river hydrography and network routing: baseline data and new approaches to study the world's large river systems. Hydrological Processes, 2013, 27, 2171-2186.	2.6	871
50	Analysis of streamflow characteristics over Northeastern Canada in a changing climate. Climate Dynamics, 2013, 40, 1879-1901.	3.8	31
51	Climate-related hydrological change and human vulnerability in remote mountain regions: a case study from Khumbu, Nepal. Regional Environmental Change, 2013, 13, 299-310.	2.9	81
52	Reply to comment by Keith J. Beven and Hannah L. Cloke on â€œHyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial waterâ€• Water Resources Research, 2012, 48, .	4.2	26
53	Modeling variable river flow velocity on continental scale: Current situation and climate change impacts in Europe. Journal of Hydrology, 2012, 424-425, 238-251.	5.4	40
54	Highâ€•resolution mapping of the world's reservoirs and dams for sustainable riverâ€•flow management. Frontiers in Ecology and the Environment, 2011, 9, 494-502.	4.0	1,540

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55	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	4.2	634
56	Indicators for Assessing Threats to Freshwater Biodiversity from Humans and Human-Shaped Landscapes. Ecological Studies, 2011, , 103-124.	1.2	4
57	Exposure of Africa's freshwater biodiversity to a changing climate. Conservation Letters, 2010, 3, 324-331.	5.7	35
58	Global mapping of ecosystem services and conservation priorities. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9495-9500.	7.1	823
59	New Global Hydrography Derived From Spaceborne Elevation Data. Eos, 2008, 89, 93-94.	0.1	1,405
60	Remote sensing of floodplain geomorphology as a surrogate for biodiversity in a tropical river system (Madre de Dios, Peru). Geomorphology, 2007, 89, 23-38.	2.6	158
61	Unlocking the potential of protected areas for freshwaters. Biological Conservation, 2007, 134, 48-63.	4.1	420
62	Freshwater conservation planning in data-poor areas: An example from a remote Amazonian basin (Madre de Dios River, Peru and Bolivia). Biological Conservation, 2007, 135, 484-501.	4.1	104
63	Estimating the Impact of Global Change on Flood and Drought Risks in Europe: A Continental, Integrated Analysis. Climatic Change, 2006, 75, 273-299.	3.6	670
64	The impact of global change on the hydropower potential of Europe: a model-based analysis. Energy Policy, 2005, 33, 839-855.	8.8	273
65	Development and validation of a global database of lakes, reservoirs and wetlands. Journal of Hydrology, 2004, 296, 1-22.	5.4	1,867
66	A global hydrological model for deriving water availability indicators: model tuning and validation. Journal of Hydrology, 2003, 270, 105-134.	5.4	911
67	Global estimates of water withdrawals and availability under current and future â€œbusiness-as-usualâ€• conditions. Hydrological Sciences Journal, 2003, 48, 339-348.	2.6	353
68	Development and testing of the WaterGAP 2 global model of water use and availability. Hydrological Sciences Journal, 2003, 48, 317-337.	2.6	663
69	Validation of a new global 30-min drainage direction map. Journal of Hydrology, 2002, 258, 214-231.	5.4	223
70	An Integrated Analysis of Changes in Water Stress in Europe. Integrated Assessment: an International Journal, 2002, 3, 15-29.	0.8	22
71	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