Richard B Lammers

List of Publications by Year
in descending order

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45 papers	8,297 citations	218662 26 h-index	289230 40 g-index
46 all docs	46 docs citations	46 times ranked	10281 citing authors

#	Article	IF	Citations
1	Integrated hydrological, power system and economic modelling of climate impacts on electricity demand and cost. Nature Energy, 2022, 7, 163-169.	39.5	11
2	C3F: Collaborative Container-based Model Coupling Framework. , 2022, , .		2
3	Coordination and control â€“ limits in standard representations of multi-reservoir operations in hydrological modeling. Hydrology and Earth System Sciences, 2021, 25, 1365-1388.	4.9	13
4	Water balance response of permafrost-affected watersheds to changes in air temperatures. Environmental Research Letters, 2021, 16, 084054.	5.2	6
5	Grand Challenges of Hydrologic Modeling for Food-Energy-Water Nexus Security in High Mountain Asia. Frontiers in Water, 2021, 3, .	2.3	5
6	Differential Impact of Climate Change on the Hydropower Economics of Two River Basins in High Mountain Asia. Frontiers in Environmental Science, 2020, 8, .	3.3	21
7	Interplay of changing irrigation technologies and water reuse: example from the upper Snake River basin, Idaho, USA. Hydrology and Earth System Sciences, 2020, 24, 5231-5249.	4.9	10
8	Understanding institutions for water allocation and exchange: Insights from dynamic agentâ€based modeling. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1384.	6.5	4
9	Using the Arctic water resources vulnerability index in assessing and responding to environmental change in Alaskan communities. Climate Risk Management, 2019, 23, 19-31.	3.2	13
10	Enhancing a community-based water resource tool for assessing environmental change: the arctic water resources vulnerability index revisited. Environment Systems and Decisions, 2019, 39, 183-197.	3.4	5
11	The use and re-use of unsustainable groundwater for irrigation: a global budget. Environmental Research Letters, 2017, 12, 034017.	5.2	35
12	Panâ€Arctic river discharge: Prioritizing monitoring of future climate change hot spots. Earth's Future, 2017, 5, 72-92.	6.3	59
13	Achieving sustainable irrigation water withdrawals: global impacts on food security and land use. Environmental Research Letters, 2017, 12, 104009.	5.2	66
14	Invisible water, visible impact: groundwater use and Indian agriculture under climate change. Environmental Research Letters, 2016, 11, 084005.	5.2	138
15	Climigration? Population and climate change in Arctic Alaska. Population and Environment, 2016, 38, 115-133.	3.0	84
16	Simulating regional hydrology and water management: An integrated agent-based approach. , 2015, , .		5
17	Quantifying the link between crop production and mined groundwater irrigation in China. Science of the Total Environment, 2015, 511, 161-175.	8.0	42
18	Water Relationships in the U.S. Southwest: Characterizing Water Management Networks Using Natural Language Processing. Water (Switzerland), 2014, 6, 1601-1641.	2.7	9

#	Article	IF	Citations
19	Simulating Water, Individuals, and Management using a coupled and distributed approach. , 2014, , .		4
20	Hydrological Changes: Historical Analysis, Contemporary Status, and Future Projections. Springer Environmental Science and Engineering, 2013, , 111-154.	0.1	40
21	Horizontal cooling towers: riverine ecosystem services and the fate of thermoelectric heat in the contemporary Northeast US. Environmental Research Letters, 2013, 8, 025010.	5.2	52
22	Influence of permafrost on water storage in West Siberian peatlands revealed from a new database of soil properties. Permafrost and Periglacial Processes, 2012, 23, 69-79.	3.4	24
23	Population, climate, and electricity use in the Arctic integrated analysis of Alaska community data. Population and Environment, 2012, 33, 269-283.	3.0	7
24	Population, climate, and electricity use in the Arctic integrated analysis of Alaska community data. , 2012, 33, 269.		1
25	Linking pan-Arctic human and physical data. Polar Geography, 2011, 34, 107-123.	1.9	5
26	Assessing the Impacts of Local Knowledge and Technology on Climate Change Vulnerability in Remote Communities. International Journal of Environmental Research and Public Health, 2011, 8, 733-761.	2.6	31
27	Tropical forest backscatter anomaly evident in SeaWinds scatterometer morning overpass data during 2005 drought in Amazonia. Remote Sensing of Environment, 2011, 115, 897-907.	11.0	127
28	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. Journal of Climate, 2010, 23, 5715-5737.	3.2	303
29	Interactions Between Land Cover/Use Change and Hydrology. , 2010, , 137-175.		1
30	Tracing freshwater anomalies through the airâ€landâ€ocean system: A case study from the Mackenzie river basin and the Beaufort Gyre. Atmosphere - Ocean, 2009, 47, 79-97.	1.6	19
31	The Arctic Water Resource Vulnerability Index: An Integrated Assessment Tool for Community Resilience and Vulnerability with Respect to Freshwater. Environmental Management, 2008, 42, 523-541.	2.7	120
32	Rising minimum daily flows in northern Eurasian rivers: A growing influence of groundwater in the highâ€latitude hydrologic cycle. Journal of Geophysical Research, 2007, 112, .	3.3	158
33	Variability in river temperature, discharge, and energy flux from the Russian panâ€Arctic landmass. Journal of Geophysical Research, 2007, 112, .	3.3	58
34	The large-scale freshwater cycle of the Arctic. Journal of Geophysical Research, 2006, 111, .	3.3	478
35	Cold region river discharge uncertaintyâ€"estimates from large Russian rivers. Journal of Hydrology, 2006, 326, 231-256.	5.4	130
36	Remote sensing of snow thaw at the pan-Arctic scale using the SeaWinds scatterometer. Journal of Hydrology, 2005, 312, 294-311.	5.4	56

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37	Simulating pan-Arctic runoff with a macro-scale terrestrial water balance model. Hydrological Processes, 2003, 17, 2521-2539.	2.6	53
38	Large-scale hydro-climatology of the terrestrial Arctic drainage system. Journal of Geophysical Research, 2003, 108, ALT 1-1.	3.3	201
39	Increasing River Discharge to the Arctic Ocean. Science, 2002, 298, 2171-2173.	12.6	1,304
40	Scaling gridded river networks for macroscale hydrology: Development, analysis, and control of error. Water Resources Research, 2001, 37, 1955-1967.	4.2	131
41	Assessment of contemporary Arctic river runoff based on observational discharge records. Journal of Geophysical Research, 2001, 106, 3321-3334.	3.3	334
42	Global Water Resources: Vulnerability from Climate Change and Population Growth. Science, 2000, 289, 284-288.	12.6	3,831
43	Simulations of snow distribution and hydrology in a mountain basin. Water Resources Research, 1999, 35, 1587-1603.	4.2	106
44	Forest ecosystem processes at the watershed scale: basis for distributed simulation. Ecological Modelling, 1991, 56, 171-196.	2.5	162
45	Automating object representation of drainage basins. Computers and Geosciences, 1990, 16, 787-810.	4.2	33