Richard B Lammers

List of Publications by Citations

42 papers	6,724 citations	24 h-index	46 g-index
46 ext. papers	7,544 ext. citations	8.3 avg, IF	5.29 L-index

#	Paper	IF	Citations
42	Global water resources: vulnerability from climate change and population growth. *Science*, **2000**, 289, 284-8	33.3	3078
41	Increasing river discharge to the Arctic Ocean. *Science*, **2002**, 298, 2171-3	33.3	1137
40	The large-scale freshwater cycle of the Arctic. *Journal of Geophysical Research*, **2006**, 111,		411
39	Assessment of contemporary Arctic river runoff based on observational discharge records. *Journal of Geophysical Research*, **2001**, 106, 3321-3334		286
38	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. *Journal of Climate*, **2010**, 23, 5715-5737	4.4	253
37	Large-scale hydro-climatology of the terrestrial Arctic drainage system. *Journal of Geophysical Research*, **2003**, 108, ALT 1-1		181
36	Rising minimum daily flows in northern Eurasian rivers: A growing influence of groundwater in the high-latitude hydrologic cycle. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		135
35	Forest ecosystem processes at the watershed scale: basis for distributed simulation. *Ecological Modelling*, **1991**, 56, 171-196	3	135
34	Scaling gridded river networks for macroscale hydrology: Development, analysis, and control of error. *Water Resources Research*, **2001**, 37, 1955-1967	5.4	111
33	The arctic water resource vulnerability index: an integrated assessment tool for community resilience and vulnerability with respect to freshwater. *Environmental Management*, **2008**, 42, 523-41	3.1	99
32	Cold region river discharge uncertainty—Estimates from large Russian rivers. *Journal of Hydrology*, **2006**, 326, 231-256	6	98
31	Invisible water, visible impact: groundwater use and Indian agriculture under climate change. *Environmental Research Letters*, **2016**, 11, 084005	6.2	91
30	Tropical forest backscatter anomaly evident in SeaWinds scatterometer morning overpass data during 2005 drought in Amazonia. *Remote Sensing of Environment*, **2011**, 115, 897-907	13.2	83
29	Simulations of snow distribution and hydrology in a mountain basin. *Water Resources Research*, **1999**, 35, 1587-1603	5.4	77
28	Climigration? Population and climate change in Arctic Alaska. *Population and Environment*, **2016**, 38, 115-133	4	63
27	Remote sensing of snow thaw at the pan-Arctic scale using the SeaWinds scatterometer. *Journal of Hydrology*, **2005**, 312, 294-311	6	50
26	Simulating pan-Arctic runoff with a macro-scale terrestrial water balance model. *Hydrological Processes*, **2003**, 17, 2521-2539	3.3	48

25	Pan-Arctic river discharge: Prioritizing monitoring of future climate change hot spots. *Earth's Future* , **2017**, 5, 72-92	7.9	44
24	Variability in river temperature, discharge, and energy flux from the Russian pan-Arctic landmass. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		43
23	Horizontal cooling towers: riverine ecosystem services and the fate of thermoelectric heat in the contemporary Northeast US. *Environmental Research Letters*, **2013**, 8, 025010	6.2	41
22	Quantifying the link between crop production and mined groundwater irrigation in China. *Science of the Total Environment*, **2015**, 511, 161-75	10.2	36
21	Automating object representation of drainage basins. *Computers and Geosciences*, **1990**, 16, 787-810	4.5	31
20	Hydrological Changes: Historical Analysis, Contemporary Status, and Future Projections. *Springer Environmental Science and Engineering*, **2013**, 111-154		29
19	Achieving sustainable irrigation water withdrawals: global impacts on food security and land use. *Environmental Research Letters*, **2017**, 12, 104009	6.2	26
18	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, 733-61	4.6	24
17	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	4.2	23
16	The use and re-use of unsustainable groundwater for irrigation: a global budget. *Environmental Research Letters*, **2017**, 12, 034017	6.2	22
15	Tracing freshwater anomalies through the air-land-ocean system: A case study from the Mackenzie river basin and the Beaufort Gyre. *Atmosphere - Ocean*, **2009**, 47, 79-97	1.5	17
14	Differential Impact of Climate Change on the Hydropower Economics of Two River Basins in High Mountain Asia. *Frontiers in Environmental Science*, **2020**, 8,	4.8	10
13	Water Relationships in the U.S. Southwest: Characterizing Water Management Networks Using Natural Language Processing. *Water (Switzerland)*, **2014**, 6, 1601-1641	3	8
12	Using the Arctic water resources vulnerability index in assessing and responding to environmental change in Alaskan communities. *Climate Risk Management*, **2019**, 23, 19-31	4.6	6
11	Population, climate, and electricity use in the Arctic integrated analysis of Alaska community data. *Population and Environment*, **2012**, 33, 269-283	4	5
10	Linking pan-Arctic human and physical data. *Polar Geography*, **2011**, 34, 107-123	2.2	5
9	Coordination and control limits in standard representations of multi-reservoir operations in hydrological modeling. *Hydrology and Earth System Sciences*, **2021**, 25, 1365-1388	5.5	4
8	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	4.1	4

7	Simulating Water, Individuals, and Management using a coupled and distributed approach **2014**,		3
6	Understanding institutions for water allocation and exchange: Insights from dynamic agent-based modeling. *Wiley Interdisciplinary Reviews: Water*, **2019**, 6, e1384	5.7	2
5	Simulating regional hydrology and water management: An integrated agent-based approach **2015**,		2
4	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	5.5	2
3	Population, climate, and electricity use in the Arctic integrated analysis of Alaska community data **2012**, 33, 269		1
2	Water balance response of permafrost-affected watersheds to changes in air temperatures. *Environmental Research Letters*, **2021**, 16, 084054	6.2	0
1	Interactions Between Land Cover/Use Change and Hydrology **2010**, 137-175		