Christopher Lowry

List of Publications by Year
in descending order

43 papers	1,221 citations	471509 17 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	1684 citing authors

#	Article	IF	Citations
1	Identifying spatial variability of groundwater discharge in a wetland stream using a distributed temperature sensor. Water Resources Research, 2007, 43, .	4.2	179
2	CrowdHydrology: Crowdsourcing Hydrologic Data and Engaging Citizen Scientists. Ground Water, 2013, 51, 151-156.	1.3	149
3	COMSOL Multiphysics: A Novel Approach to Ground Water Modeling. Ground Water, 2009, 47, 480-487.	1.3	121
4	Groundwater controls on vegetation composition and patterning in mountain meadows. Water Resources Research, 2011, 47, .	4.2	71
5	Groundwaterâ€dependent vegetation: Quantifying the groundwater subsidy. Water Resources Research, 2010, 46, .	4.2	65
6	Ground penetrating radar and spring formation in a groundwater dominated peat wetland. Journal of Hydrology, 2009, 373, 68-79.	5.4	61
7	Hyporheic exchange controlled by dynamic hydrologic boundary conditions. Geophysical Research Letters, 2016, 43, 4408-4417.	4.0	58
8	An Assessment of Aquifer Storage Recovery Using Ground Water Flow Models. Ground Water, 2006, 44, 060707065613003-???.	1.3	56
9	Social.Waterâ€”A crowdsourcing tool for environmental data acquisition. Computers and Geosciences, 2012, 49, 164-169.	4.2	56
10	Modelling how vegetation cover affects climate change impacts on streamflow timing and magnitude in the snowmeltâ€dominated upper Tuolumne Basin, Sierra Nevada. Hydrological Processes, 2014, 28, 3896-3918.	2.6	52
11	Growing Pains of Crowdsourced Stream Stage Monitoring Using Mobile Phones: The Development of CrowdHydrology. Frontiers in Earth Science, 2019, 7, .	1.8	42
12	Linking snowmeltâ€derived fluxes and groundwater flow in a high elevation meadow system, Sierra Nevada Mountains, California. Hydrological Processes, 2010, 24, 2821-2833.	2.6	37
13	Locating and quantifying spatially distributed groundwater/surface water interactions using temperature signals with paired fiberâ€optic cables. Water Resources Research, 2013, 49, 7670-7680.	4.2	35
14	Temporal Hyporheic Zone Response to Water Table Fluctuations. Ground Water, 2016, 54, 274-285.	1.3	35
15	Response of the hyporheic zone to transient groundwater fluctuations on the annual and storm event time scales. Water Resources Research, 2016, 52, 5301-5321.	4.2	33
16	Quantifying the potential effects of high-volume water extractions on water resources during natural gas development: Marcellus Shale, NY. Journal of Hydrology: Regional Studies, 2014, 1, 1-16.	2.4	22
17	Opportunities for crowdsourcing in urban flood monitoring. Environmental Modelling and Software, 2021, 143, 105124.	4.5	21
18	Improving Hydrological Models With the Assimilation of Crowdsourced Data. Water Resources Research, 2020, 56, e2019WR026325.	4.2	19

#	Article	IF	Citations
19	Groundwater drainage from fissures as a source for lahars. Bulletin of Volcanology, 2018, 80, 1.	3.0	11
20	Impact of complex aquifer geometry on groundwater storage in highâ€elevation meadows of the Sierra Nevada Mountains, CA. Hydrological Processes, 2017, 31, 1863-1875.	2.6	10
21	Limits on Groundwaterâ€Surface Water Fluxes Derived from Temperature Time Series: Defining Resolutionâ€Based Thresholds. Water Resources Research, 2019, 55, 10678-10689.	4.2	10
22	Vulnerability of water resources under a changing climate and human activity in the lower Great Lakes region. Hydrological Processes, 2021, 35, e14440.	2.6	10
23	Potential impacts of climate change on an aquifer in the arid Altiplano, northern Chile: The case of the protected wetlands of the Salar del Huasco basin. Journal of Hydrology: Regional Studies, 2022, 39, 100996.	2.4	9
24	Simulating the effects of a beaver dam on regional groundwater flow through a wetland. Journal of Hydrology: Regional Studies, 2015, 4, 675-685.	2.4	8
25	Is Citizen Science Dead?. Environmental Science & Technology, 2021, 55, 4194-4196.	10.0	8
26	Mechanisms for engaging social systems in freshwater science research. Freshwater Science, 2021, 40, 245-251.	1.8	7
27	Vertically Integrated Hydraulic Conductivity: A New Parameter for Groundwaterâ€Surface Water Analysis. Ground Water, 2019, 57, 727-736.	1.3	6
28	Examining the utility of continuously quantified Darcy fluxes through the use of periodic temperature time series. Journal of Hydrology, 2021, 595, 125675.	5.4	6
29	Instream Restoration to Improve the Ecohydrologic Function of a Subalpine Meadow: Preâ€implementation Modeling with HECâ€RAS. Journal of the American Water Resources Association, 2014, 50, 1033-1050.	2.4	5
30	Focused Groundwater Controlled Feedbacks into the Hyporheic Zone During Baseflow Recession. Ground Water, 2015, 53, 217-226.	1.3	5
31	The Role of Realistic Channel Geometry Representation in Hydrological Model Predictions. Journal of the American Water Resources Association, 2021, 57, 222-240.	2.4	5
32	Exploring the Use of Decision Tree Methodology in Hydrology Using Crowdsourced Data. Journal of the American Water Resources Association, 2021, 57, 256-266.	2.4	5
33	Applied Groundwater Modelling for Water Resource Management and Protection. Water (Switzerland), 2022, 14, 1142.	2.7	4
34	Hydrologic evaluation of a poplar phytoextraction system. International Journal of Phytoremediation, 2022, 24, 145-155.	3.1	0
35	HYPORHEIC EXCHANGE CONTROLLED BY DYNAMIC STREAM AND HILLSLOPE FLUCTUATIONS. , 2016, , .		0
36	QUANTIFYING ROOT DISTRIBUTION AND GRAIN SIZE ANALYSIS IN WETLAND PLANT COMMUNITIES WITH IMPLICATIONS FOR ROOT WATER UPTAKE. , 2016, , .		0

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37	TRACKING NUTRIENT FLUXES IN GROUNDWATER AND SURFACE WATER ON THE EASTERN SHORE OF LAKE ERIE. , 2017, , .		0
38	QUANTIFYING GROUNDWATERâ€“SURFACE WATER EXCHANGE FROM LOW-ALTITUDE REMOTE SENSING USING LARGE-SCALE PARTICLE IMAGE VELOCIMETRY. , 2018, , .		0
39	LOW FLUX LIMITATIONS ON THE USE OF HEAT AS A TRACER IN GROUNDWATER-SURFACE WATER INTERACTIONS. , 2018, , .		0
40	USING CITIZEN SCIENCE AS A CORE TOOL FOR WATER RESOURCE MANAGEMENT AND FORECASTING: CLOSING THE PROFESSIONAL AND CITIZEN SCIENCE GAP. , 2019, , .		0
41	IMPROVING ESTIMATES OF STREAMBED WETTED PERIMETER FROM UAV: A SYSTEM FOR THE REMOTE QUANTIFICATION OF STREAM DISCHARGE. , 2019, , .		0
42	EXPLORING GROUNDWATER SURFACE WATER-INTERACTIONS USING DRONE BASED DIFFERENTIAL STREAM GAUGING. , 2019, , .		0
43	Citizen Science, Crowdsourcing, and Social Media Advance Our Understanding and Conservation of Inland Waters. , 2021, , .		0