

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	2,077 citations	25 h-index	45 g-index
57 ext. papers	2,397 ext. citations	5.3 avg, IF	4.66 L-index

#	Paper	IF	Citations
55	Open Science: Open Data, Open Models, and Open Publications?. <i>Water Resources Research</i> , 2021 , 57, e2020WR029480	5.4	2
54	Are Arid Regions Always that Appropriate for Waste Disposal? Examples of Complexity from Yucca Mountain, Nevada. <i>Geosciences (Switzerland)</i> , 2020 , 10, 30	2.7	2
53	Modeling Shasta Reservoir Water-Temperature Response to the 2015 Drought and Response under Future Climate Change. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020018	2.8	2
52	Field trials to detect drainage pipe networks using thermal and RGB data from unmanned aircraft. <i>Agricultural Water Management</i> , 2020 , 229, 105895	5.9	8
51	Bias Correction of Airborne Thermal Infrared Observations Over Forests Using Melting Snow. <i>Water Resources Research</i> , 2019 , 55, 11331-11343	5.4	4
50	Watershed-scale mapping of fractional snow cover under conifer forest canopy using lidar. <i>Remote Sensing of Environment</i> , 2019 , 222, 34-49	13.2	15
49	The Intensively Managed Landscape Critical Zone Observatory: A Scientific Testbed for Understanding Critical Zone Processes in Agroecosystems. <i>Vadose Zone Journal</i> , 2018 , 17, 1-21	2.7	17
48	Perspectives on the Application of Unmanned Aircraft for Freshwater Fisheries Census. <i>Fisheries</i> , 2018 , 43, 510-516	1.1	10
47	Potential for Small Unmanned Aircraft Systems Applications for Identifying Groundwater-Surface Water Exchange in a Meandering River Reach. <i>Geophysical Research Letters</i> , 2017 , 44, 11,868	4.9	25
46	Parameter estimation of nonlinear nitrate prediction model using genetic algorithm 2017 ,		1
45	Polymictic pool behaviour in a montane meadow, Sierra Nevada, CA. <i>Hydrological Processes</i> , 2016 , 30, 3274-3288	3.3	2
44	Projecting the effects of climate change and water management on Devils Hole pupfish (<i>Cyprinodon diabolis</i>) survival. <i>Ecohydrology</i> , 2016 , 9, 560-573	2.5	6
43	Proof of concept: temperature-sensing waders for environmental sciences. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016 , 5, 45-51	1.5	8
42	Use of Distributed Temperature Sensing Technology to Characterize Fire Behavior. <i>Sensors</i> , 2016 , 16,	3.8	7
41	Interpreting Variations in Groundwater Flows from Repeated Distributed Thermal Perturbation Tests. <i>Ground Water</i> , 2016 , 54, 559-68	2.4	6
40	On the variability of the Priestley-Taylor coefficient over water bodies. <i>Water Resources Research</i> , 2016 , 52, 150-163	5.4	29
39	Assimilation of temperature and hydraulic gradients for quantifying the spatial variability of streambed hydraulics. <i>Water Resources Research</i> , 2016 , 52, 6419-6439	5.4	7

38	Mapping high-resolution soil moisture and properties using distributed temperature sensing data and an adaptive particle batch smoother. <i>Water Resources Research</i> , 2016 , 52, 7690-7710	5.4	12
37	High geothermal heat flux measured below the West Antarctic Ice Sheet. <i>Science Advances</i> , 2015 , 1, e150093	10.9	100
36	Renewable water: Direct contact membrane distillation coupled with solar ponds. <i>Applied Energy</i> , 2015 , 158, 532-539	10.7	70
35	Synchrotron X-Ray Microtomography: New Means to Quantify Root Induced Changes of Rhizosphere Physical Properties. <i>SSSA Special Publication Series</i> , 2015 , 39-67	0	3
34	Suppressed convective rainfall by agricultural expansion in southeastern Burkina Faso. <i>Water Resources Research</i> , 2015 , 51, 5521-5530	5.4	7
33	Quantifying coupled deformation and water flow in the rhizosphere using X-ray microtomography and numerical simulations. <i>Plant and Soil</i> , 2014 , 376, 95-110	4.2	44
32	Understanding the expected performance of large-scale solar ponds from laboratory-scale observations and numerical modeling. <i>Applied Energy</i> , 2014 , 117, 1-10	10.7	32
31	Evaporation suppression and solar energy collection in a salt-gradient solar pond. <i>Solar Energy</i> , 2014 , 99, 36-46	6.8	40
30	Novel monitoring of Antarctic ice shelf basal melting using a fiber-optic distributed temperature sensing mooring. <i>Geophysical Research Letters</i> , 2014 , 41, 6779-6786	4.9	19
29	Comment on "Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing" by Liliana Rose et al.. <i>Water Resources Research</i> , 2014 , 50, 5372-5374	5.4	21
28	New technique for access-borehole drilling in shelf glaciers using lightweight drills. <i>Journal of Glaciology</i> , 2014 , 60, 935-944	3.4	9
27	Life in a fishbowl: Prospects for the endangered Devils Hole pupfish (<i>Cyprinodon diabolis</i>) in a changing climate. <i>Water Resources Research</i> , 2014 , 50, 7020-7034	5.4	16
26	Evaporation from a shallow water table: Diurnal dynamics of water and heat at the surface of drying sand. <i>Water Resources Research</i> , 2013 , 49, 4022-4034	5.4	40
25	Using distributed temperature sensors to monitor an Antarctic ice shelf and sub-ice-shelf cavity. <i>Journal of Glaciology</i> , 2013 , 59, 583-591	3.4	26
24	Intrusion of warm surface water beneath the McMurdo Ice Shelf, Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 7036-7048	3.3	35
23	The shallow thermal regime of Devils Hole, Death Valley National Park. <i>Limnology & Oceanography</i> <i>Fluids & Environments</i> , 2013 , 3, 119-138		10
22	Carbon monoxide as a tracer of gas transport in snow and other natural porous media. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	11
21	Interpreting seasonal convective mixing in Devils Hole, Death Valley National Park, from temperature profiles observed by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , 2012 , 48,	5.4	12

20	Double-ended calibration of fiber-optic Raman spectra distributed temperature sensing data. <i>Sensors</i> , 2012 , 12, 5471-85	3.8	138
19	Evaluating the complementary relationship for estimating evapotranspiration from arid shrublands. <i>Water Resources Research</i> , 2011 , 47,	5.4	61
18	Assessment of a vertical high-resolution distributed-temperature-sensing system in a shallow thermohaline environment. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 1081-1093	5.5	49
17	Comments on Evaluation of systems coupling vacuum membrane distillation and solar energy for seawater desalination. <i>Chemical Engineering Journal</i> , 2011 , 178, 475-476	14.7	3
16	Effects of root-induced compaction on rhizosphere hydraulic properties--X-ray microtomography imaging and numerical simulations. <i>Environmental Science & Technology</i> , 2011 , 45, 425-31	10.3	80
15	Calibrating single-ended fiber-optic Raman spectra distributed temperature sensing data. <i>Sensors</i> , 2011 , 11, 10859-79	3.8	161
14	Feasibility of soil moisture monitoring with heated fiber optics. <i>Water Resources Research</i> , 2010 , 46,	5.4	137
13	Feasibility of soil moisture estimation using passive distributed temperature sensing. <i>Water Resources Research</i> , 2010 , 46,	5.4	107
12	Solar radiative heating of fiber-optic cables used to monitor temperatures in water. <i>Water Resources Research</i> , 2010 , 46,	5.4	31
11	A theoretical study of a direct contact membrane distillation system coupled to a salt-gradient solar pond for terminal lakes reclamation. <i>Water Research</i> , 2010 , 44, 4601-15	12.5	66
10	Temperature evolution of an experimental salt-gradient solar pond. <i>Journal of Water and Climate Change</i> , 2010 , 1, 246-250	2.3	18
9	A fully coupled, transient double-diffusive convective model for salt-gradient solar ponds. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1718-1730	4.9	65
8	Environmental temperature sensing using Raman spectra DTS fiber-optic methods. <i>Water Resources Research</i> , 2009 , 45,	5.4	251
7	Processes controlling the thermal regime of saltmarsh channel beds. <i>Environmental Science & Technology</i> , 2008 , 42, 671-6	10.3	39
6	Spatially distributed temperatures at the base of two mountain snowpacks measured with fiber-optic sensors. <i>Journal of Glaciology</i> , 2008 , 54, 673-679	3.4	65
5	Field-Scale Analysis of Flow Mechanisms in Highly Heterogeneous Mining Media. <i>Vadose Zone Journal</i> , 2008 , 7, 899-908	2.7	12
4	Arsenate and Arsenite Sorption on Carbonate Hosted Precious Metals Ore. <i>Vadose Zone Journal</i> , 2006 , 5, 419-429	2.7	4
3	Variably Saturated Reactive Transport of Arsenic in Heap-Leach Facilities. <i>Vadose Zone Journal</i> , 2006 , 5, 430-444	2.7	11

2	Impacts of the 2004 tsunami on groundwater resources in Sri Lanka. <i>Water Resources Research</i> , 2006 , 42,	5.4	86
1	Field Performance of Three Compacted Clay Landfill Covers. <i>Vadose Zone Journal</i> , 2006 , 5, 1157-1171	2.7	35