S W Tyler

List of Publications by Year
in descending order

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55 papers	2,636 citations	201674 27 h-index	189892 50 g-index
57 all docs	57 docs citations	57 times ranked	2863 citing authors

#	Article	IF	Citations
1	Environmental temperature sensing using Raman spectra DTS fiberâ€optic methods. Water Resources Research, 2009, 45, .	4.2	293
2	Calibrating Single-Ended Fiber-Optic Raman Spectra Distributed Temperature Sensing Data. Sensors, 2011, 11, 10859-10879.	3.8	205
3	Feasibility of soil moisture monitoring with heated fiber optics. Water Resources Research, 2010, 46, .	4.2	173
4	Double-Ended Calibration of Fiber-Optic Raman Spectra Distributed Temperature Sensing Data. Sensors, 2012, 12, 5471-5485.	3.8	167
5	Feasibility of soil moisture estimation using passive distributed temperature sensing. Water Resources Research, 2010, 46, .	4.2	130
6	High geothermal heat flux measured below the West Antarctic Ice Sheet. Science Advances, 2015, 1, e1500093.	10.3	126
7	Impacts of the 2004 tsunami on groundwater resources in Sri Lanka. Water Resources Research, 2006, 42, .	4.2	115
8	Effects of Root-Induced Compaction on Rhizosphere Hydraulic Properties - X-ray Microtomography Imaging and Numerical Simulations. Environmental Science & Technology, 2011, 45, 425-431.	10.0	101
9	Renewable water: Direct contact membrane distillation coupled with solar ponds. Applied Energy, 2015, 158, 532-539.	10.1	92
10	A fully coupled, transient double-diffusive convective model for salt-gradient solar ponds. International Journal of Heat and Mass Transfer, 2010, 53, 1718-1730.	4.8	84
11	A theoretical study of a direct contact membrane distillation system coupled to a salt-gradient solar pond for terminal lakes reclamation. Water Research, 2010, 44, 4601-4615.	11.3	83
12	Spatially distributed temperatures at the base of two mountain snowpacks measured with fiber-optic sensors. Journal of Glaciology, 2008, 54, 673-679.	2.2	75
13	Evaluating the complementary relationship for estimating evapotranspiration from arid shrublands. Water Resources Research, 2011, 47, .	4.2	73
14	Assessment of a vertical high-resolution distributed-temperature-sensing system in a shallow thermohaline environment. Hydrology and Earth System Sciences, 2011, 15, 1081-1093.	4.9	61
15	Evaporation suppression and solar energy collection in a salt-gradient solar pond. Solar Energy, 2014, 99, 36-46.	6.1	59
16	Quantifying coupled deformation and water flow in the rhizosphere using X-ray microtomography and numerical simulations. Plant and Soil, 2014, 376, 95-110.	3.7	57
17	Field Performance of Three Compacted Clay Landfill Covers. Vadose Zone Journal, 2006, 5, 1157-1171.	2.2	51
18	Evaporation from a shallow water table: Diurnal dynamics of water and heat at the surface of drying sand. Water Resources Research, 2013, 49, 4022-4034.	4.2	49

#	Article	IF	Citations
19	Using distributed temperature sensors to monitor an Antarctic ice shelf and sub-ice-shelf cavity. Journal of Glaciology, 2013, 59, 583-591.	2.2	46
20	Processes Controlling the Thermal Regime of Saltmarsh Channel Beds. Environmental Science & Technology, 2008, 42, 671-676.	10.0	45
21	Intrusion of warm surface water beneath the McMurdo Ice Shelf, Antarctica. Journal of Geophysical Research: Oceans, 2013, 118, 7036-7048.	2.6	40
22	Solar radiative heating of fiberâ€optic cables used to monitor temperatures in water. Water Resources Research, 2010, 46, .	4.2	38
23	On the variability of the Priestleyâ€Taylor coefficient over water bodies. Water Resources Research, 2016, 52, 150-163.	4.2	37
24	Understanding the expected performance of large-scale solar ponds from laboratory-scale observations and numerical modeling. Applied Energy, 2014, 117, 1-10.	10.1	34
25	Watershed-scale mapping of fractional snow cover under conifer forest canopy using lidar. Remote Sensing of Environment, 2019, 222, 34-49.	11.0	33
26	The Intensively Managed Landscape Critical Zone Observatory: A Scientific Testbed for Understanding Critical Zone Processes in Agroecosystems. Vadose Zone Journal, 2018, 17, 1-21.	2.2	31
27	Potential for Small Unmanned Aircraft Systems Applications for Identifying Groundwaterâ€Surface Water Exchange in a Meandering River Reach. Geophysical Research Letters, 2017, 44, 11,868.	4.0	28
28	Comment on â€œCapabilities and limitations of tracing spatial temperature patterns by fiberâ€optic distributed temperature sensingâ€• by Liliana Rose et al.. Water Resources Research, 2014, 50, 5372-5374.	4.2	24
29	Novel monitoring of Antarctic ice shelf basal melting using a fiberâ€optic distributed temperature sensing mooring. Geophysical Research Letters, 2014, 41, 6779-6786.	4.0	23
30	Temperature evolution of an experimental salt-gradient solar pond. Journal of Water and Climate Change, 2010, 1, 246-250.	2.9	20
31	Life in a fishbowl: Prospects for the endangered Devils Hole pupfish (Cyprinodon diabolis) in a changing climate. Water Resources Research, 2014, 50, 7020-7034.	4.2	17
32	Field trials to detect drainage pipe networks using thermal and RGB data from unmanned aircraft. Agricultural Water Management, 2020, 229, 105895.	5.6	17
33	Mapping highâ€resolution soil moisture and properties using distributed temperature sensing data and an adaptive particle batch smoother. Water Resources Research, 2016, 52, 7690-7710.	4.2	16
34	Fieldâ€Scale Analysis of Flow Mechanisms in Highly Heterogeneous Mining Media. Vadose Zone Journal, 2008, 7, 899-908.	2.2	15
35	Interpreting seasonal convective mixing in Devils Hole, Death Valley National Park, from temperature profiles observed by fiberâ€optic distributed temperature sensing. Water Resources Research, 2012, 48, .	4.2	14
36	Variably Saturated Reactive Transport of Arsenic in Heap-Leach Facilities. Vadose Zone Journal, 2006, 5, 430-444.	2.2	13

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37	Carbon monoxide as a tracer of gas transport in snow and other natural porous media. Geophysical Research Letters, 2012, 39, .	4.0	13
38	The shallow thermal regime of Devils Hole, Death Valley National Park. Limnology & Oceanography Fluids & Environments, 2013, 3, 119-138.	1.7	13
39	New technique for access-borehole drilling in shelf glaciers using lightweight drills. Journal of Glaciology, 2014, 60, 935-944.	2.2	13
40	Use of Distributed Temperature Sensing Technology to Characterize Fire Behavior. Sensors, 2016, 16, 1712.	3.8	13
41	Perspectives on the Application of Unmanned Aircraft for Freshwater Fisheries Census. Fisheries, 2018, 43, 510-516.	0.8	12
42	Assimilation of temperature and hydraulic gradients for quantifying the spatial variability of streambed hydraulics. Water Resources Research, 2016, 52, 6419-6439.	4.2	10
43	Bias Correction of Airborne Thermal Infrared Observations Over Forests Using Melting Snow. Water Resources Research, 2019, 55, 11331-11343.	4.2	10
44	Proof of concept: temperature-sensing waders for environmental sciences. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 45-51.	1.6	9
45	Suppressed convective rainfall by agricultural expansion in southeastern <scp>B</scp>urkina <scp>F</scp>aso. Water Resources Research, 2015, 51, 5521-5530.	4.2	8
46	Modeling Shasta Reservoir Water-Temperature Response to the 2015 Drought and Response under Future Climate Change. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	7
47	Open Science: Open Data, Open Models, â€¦and Open Publications?. Water Resources Research, 2021, 57, e2020WR029480.	4.2	7
48	Synchrotron X-Ray Microtomography-New Means to Quantify Root Induced Changes of Rhizosphere Physical Properties. SSSA Special Publication Series, 2015, , 39-67.	0.2	6
49	Interpreting Variations in Groundwater Flows from Repeated Distributed Thermal Perturbation Tests. Ground Water, 2016, 54, 559-568.	1.3	6
50	Projecting the effects of climate change and water management on Devils Hole pupfish (Cyprinodon diabolis) survival. Ecohydrology, 2016, 9, 560-573.	2.4	6
51	Are Arid Regions Always that Appropriate for Waste Disposal? Examples of Complexity from Yucca Mountain, Nevada. Geosciences (Switzerland), 2020, 10, 30.	2.2	6
52	Arsenate and Arsenite Sorption on Carbonate Hosted Precious Metals Ore. Vadose Zone Journal, 2006, 5, 419-429.	2.2	4
53	Comments on â€œEvaluation of systems coupling vacuum membrane distillation and solar energy for seawater desalinationâ€• Chemical Engineering Journal, 2011, 178, 475-476.	12.7	3
54	Polymictic pool behaviour in a montane meadow, Sierra Nevada, CA. Hydrological Processes, 2016, 30, 3274-3288.	2.6	3

#	Article	IF	Citations
55	Parameter estimation of nonlinear nitrate prediction model using genetic algorithm. , 2017, , .		2