S W Tyler

List of Publications by Citations

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	Environmental temperature sensing using Raman spectra DTS fiber-optic methods. *Water Resources Research*, **2009**, 45,	5.4	251
54	Calibrating single-ended fiber-optic Raman spectra distributed temperature sensing data. *Sensors*, **2011**, 11, 10859-79	3.8	161
53	Double-ended calibration of fiber-optic Raman spectra distributed temperature sensing data. *Sensors*, **2012**, 12, 5471-85	3.8	138
52	Feasibility of soil moisture monitoring with heated fiber optics. *Water Resources Research*, **2010**, 46,	5.4	137
51	Feasibility of soil moisture estimation using passive distributed temperature sensing. *Water Resources Research*, **2010**, 46,	5.4	107
50	High geothermal heat flux measured below the West Antarctic Ice Sheet. *Science Advances*, **2015**, 1, e1500093	11.9	100
49	Impacts of the 2004 tsunami on groundwater resources in Sri Lanka. *Water Resources Research*, **2006**, 42,	5.4	86
48	Effects of root-induced compaction on rhizosphere hydraulic properties--X-ray microtomography imaging and numerical simulations. *Environmental Science & Technology*, **2011**, 45, 425-31	10.3	80
47	Renewable water: Direct contact membrane distillation coupled with solar ponds. *Applied Energy*, **2015**, 158, 532-539	10.7	70
46	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, 4601-15	12.5	66
45	A fully coupled, transient double-diffusive convective model for salt-gradient solar ponds. *International Journal of Heat and Mass Transfer*, **2010**, 53, 1718-1730	4.9	65
44	Spatially distributed temperatures at the base of two mountain snowpacks measured with fiber-optic sensors. *Journal of Glaciology*, **2008**, 54, 673-679	3.4	65
43	Evaluating the complementary relationship for estimating evapotranspiration from arid shrublands. *Water Resources Research*, **2011**, 47,	5.4	61
42	Assessment of a vertical high-resolution distributed-temperature-sensing system in a shallow thermohaline environment. *Hydrology and Earth System Sciences*, **2011**, 15, 1081-1093	5.5	49
41	Quantifying coupled deformation and water flow in the rhizosphere using X-ray microtomography and numerical simulations. *Plant and Soil*, **2014**, 376, 95-110	4.2	44
40	Evaporation suppression and solar energy collection in a salt-gradient solar pond. *Solar Energy*, **2014**, 99, 36-46	6.8	40
39	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	5.4	40

38	Processes controlling the thermal regime of saltmarsh channel beds. *Environmental Science & Technology*, **2008**, 42, 671-6	10.3	39
37	Intrusion of warm surface water beneath the McMurdo Ice Shelf, Antarctica. *Journal of Geophysical Research: Oceans*, **2013**, 118, 7036-7048	3.3	35
36	Field Performance of Three Compacted Clay Landfill Covers. *Vadose Zone Journal*, **2006**, 5, 1157-1171	2.7	35
35	Understanding the expected performance of large-scale solar ponds from laboratory-scale observations and numerical modeling. *Applied Energy*, **2014**, 117, 1-10	10.7	32
34	Solar radiative heating of fiber-optic cables used to monitor temperatures in water. *Water Resources Research*, **2010**, 46,	5.4	31
33	On the variability of the Priestley-Taylor coefficient over water bodies. *Water Resources Research*, **2016**, 52, 150-163	5.4	29
32	Using distributed temperature sensors to monitor an Antarctic ice shelf and sub-ice-shelf cavity. *Journal of Glaciology*, **2013**, 59, 583-591	3.4	26
31	Potential for Small Unmanned Aircraft Systems Applications for Identifying Groundwater-Surface Water Exchange in a Meandering River Reach. *Geophysical Research Letters*, **2017**, 44, 11,868	4.9	25
30	Comment on Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing by Liliana Rose et al.. *Water Resources Research*, **2014**, 50, 5372-5374	5.4	21
29	Novel monitoring of Antarctic ice shelf basal melting using a fiber-optic distributed temperature sensing mooring. *Geophysical Research Letters*, **2014**, 41, 6779-6786	4.9	19
28	Temperature evolution of an experimental salt-gradient solar pond. *Journal of Water and Climate Change*, **2010**, 1, 246-250	2.3	18
27	The Intensively Managed Landscape Critical Zone Observatory: A Scientific Testbed for Understanding Critical Zone Processes in Agroecosystems. *Vadose Zone Journal*, **2018**, 17, 1-21	2.7	17
26	Life in a fishbowl: Prospects for the endangered Devils Hole pupfish (Cyprinodon diabolis) in a changing climate. *Water Resources Research*, **2014**, 50, 7020-7034	5.4	16
25	Watershed-scale mapping of fractional snow cover under conifer forest canopy using lidar. *Remote Sensing of Environment*, **2019**, 222, 34-49	13.2	15
24	Interpreting seasonal convective mixing in Devils Hole, Death Valley National Park, from temperature profiles observed by fiber-optic distributed temperature sensing. *Water Resources Research*, **2012**, 48,	5.4	12
23	Field-Scale Analysis of Flow Mechanisms in Highly Heterogeneous Mining Media. *Vadose Zone Journal*, **2008**, 7, 899-908	2.7	12
22	Mapping high-resolution soil moisture and properties using distributed temperature sensing data and an adaptive particle batch smoother. *Water Resources Research*, **2016**, 52, 7690-7710	5.4	12
21	Carbon monoxide as a tracer of gas transport in snow and other natural porous media. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	11

20	Variably Saturated Reactive Transport of Arsenic in Heap-Leach Facilities. *Vadose Zone Journal*, **2006**, 5, 430-444	2.7	11
19	The shallow thermal regime of Devils Hole, Death Valley National Park. *Limnology & Oceanography Fluids & Environments*, **2013**, 3, 119-138		10
18	Perspectives on the Application of Unmanned Aircraft for Freshwater Fisheries Census. *Fisheries*, **2018**, 43, 510-516	1.1	10
17	New technique for access-borehole drilling in shelf glaciers using lightweight drills. *Journal of Glaciology*, **2014**, 60, 935-944	3.4	9
16	Field trials to detect drainage pipe networks using thermal and RGB data from unmanned aircraft. *Agricultural Water Management*, **2020**, 229, 105895	5.9	8
15	Proof of concept: temperature-sensing waders for environmental sciences. *Geoscientific Instrumentation, Methods and Data Systems*, **2016**, 5, 45-51	1.5	8
14	Use of Distributed Temperature Sensing Technology to Characterize Fire Behavior. *Sensors*, **2016**, 16,	3.8	7
13	Assimilation of temperature and hydraulic gradients for quantifying the spatial variability of streambed hydraulics. *Water Resources Research*, **2016**, 52, 6419-6439	5.4	7
12	Suppressed convective rainfall by agricultural expansion in southeastern Burkina Faso. *Water Resources Research*, **2015**, 51, 5521-5530	5.4	7
11	Projecting the effects of climate change and water management on Devils Hole pupfish (Cyprinodon diabolis) survival. *Ecohydrology*, **2016**, 9, 560-573	2.5	6
10	Interpreting Variations in Groundwater Flows from Repeated Distributed Thermal Perturbation Tests. *Ground Water*, **2016**, 54, 559-68	2.4	6
9	Arsenate and Arsenite Sorption on Carbonate Hosted Precious Metals Ore. *Vadose Zone Journal*, **2006**, 5, 419-429	2.7	4
8	Bias Correction of Airborne Thermal Infrared Observations Over Forests Using Melting Snow. *Water Resources Research*, **2019**, 55, 11331-11343	5.4	4
7	Synchrotron X-Ray Microtomography□New Means to Quantify Root Induced Changes of Rhizosphere Physical Properties. *SSSA Special Publication Series*, **2015**, 39-67	0	3
6	Comments on □valuation of systems coupling vacuum membrane distillation and solar energy for seawater desalination□*Chemical Engineering Journal*, **2011**, 178, 475-476	14.7	3
5	Are Arid Regions Always that Appropriate for Waste Disposal? Examples of Complexity from Yucca Mountain, Nevada. *Geosciences (Switzerland)*, **2020**, 10, 30	2.7	2
4	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, 04020018	2.8	2
3	Polymictic pool behaviour in a montane meadow, Sierra Nevada, CA. *Hydrological Processes*, **2016**, 30, 3274-3288	3.3	2

2	Open Science: Open Data, Open Models, and Open Publications?. *Water Resources Research*, **2021**, 57, e2020WR029480	5.4	2
1	Parameter estimation of nonlinear nitrate prediction model using genetic algorithm **2017**,		1