Margaret A Shanafield

List of Publications by Year
in descending order

57 papers	1,520 citations	279798 23 h-index	330143 37 g-index
70 all docs	70 docs citations	70 times ranked	1482 citing authors

#	Article	IF	Citations
1	Determination of rainy season onset and cessation based on a flexible driest period. Theoretical and Applied Climatology, 2022, 148, 91-104.	2.8	5
2	Reconceptualizing the hyporheic zone for nonperennial rivers and streams. Freshwater Science, 2022, 41, 167-182.	1.8	15
3	Assessing placement bias of the global river gauge network. Nature Sustainability, 2022, 5, 586-592.	23.7	51
4	Predicting wildfire induced changes to runoff: A review and synthesis of modeling approaches. Wiley Interdisciplinary Reviews: Water, 2022, 9, .	6.5	5
5	Water-level recession characteristics in isolated pools within non-perennial streams. Advances in Water Resources, 2022, 166, 104267.	3.8	1
6	Spatial Patterns and Drivers of Nonperennial Flow Regimes in the Contiguous United States. Geophysical Research Letters, 2021, 48, e2020GL090794.	4.0	54
7	Rainy season drought severity trend analysis of the Indonesian maritime continent. International Journal of Climatology, 2021, 41, E2194.	3.5	6
8	An overview of the hydrology of nonâ€perennial rivers and streams. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1504.	6.5	58
9	Exploring conceptual models of infiltration and groundwater recharge on an intermittent river: The role of geologic controls. Journal of Hydrology: Regional Studies, 2021, 35, 100814.	2.4	5
10	Classification and trends in intermittent river flow regimes in Australia, northwestern Europe and USA: A global perspective. Journal of Hydrology, 2021, 597, 126170.	5.4	37
11	Pervasive changes in stream intermittency across the United States. Environmental Research Letters, 2021, 16, 084033.	5.2	47
12	Taking theory to the field: streamflow generation mechanisms in an intermittent Mediterranean catchment. Hydrology and Earth System Sciences, 2021, 25, 4299-4317.	4.9	7
13	A Comparison of Timeâ€Frequency Signal Processing Methods for Identifying Nonâ€Perennial Streamflow Events From Streambed Surface Temperature Time Series. Water Resources Research, 2021, 57, e2020WR028670.	4.2	3
14	Spatial and temporal variation in rainy season droughts in the Indonesian Maritime Continent. Journal of Hydrology, 2021, 603, 126999.	5.4	4
15	Mapping catchment-scale unmonitored groundwater abstractions: Approaches based on soft data. Journal of Hydrology: Regional Studies, 2020, 30, 100695.	2.4	5
16	Whatâ€™s in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. Water (Switzerland), 2020, 12, 1980.	2.7	49
17	Catchmentâ€Scale Characterization of Intermittent Stream Infiltration; a Geophysics Approach. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005330.	2.8	12
18	A Numerical Stream Transport Modeling Approach Including Multiple Conceptualizations of Hyporheic Exchange and Spatial Variability to Assess Contaminant Removal. Water Resources Research, 2020, 56, e2019WR024987.	4.2	11

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19	Zero or not? Causes and consequences of zeroâ€flow stream gage readings. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1436.	6.5	63
20	Science Gets Up to Speed on Dry Rivers. Eos, 2020, 101, .	0.1	10
21	What's in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. Water (Switzerland), 2020, 12, 1980.	2.7	4
22	What Triggers Streamflow for Intermittent Rivers and Ephemeral Streams in Lowâ€Gradient Catchments in Mediterranean Climates. Water Resources Research, 2019, 55, 9926-9946.	4.2	43
23	Is the Hyporheic Zone Relevant beyond the Scientific Community?. Water (Switzerland), 2019, 11, 2230.	2.7	113
24	Error in hydraulic head and gradient time-series measurements: a quantitative appraisal. Hydrology and Earth System Sciences, 2019, 23, 3603-3629.	4.9	31
25	A visual approach to demonstrate groundwater flow processes. Hydrological Processes, 2019, 33, 3236-3238.	2.6	1
26	Towards Quantifying the Likelihood of Water Resource Impacts from Unconventional Gas Development. Ground Water, 2019, 57, 547-561.	1.3	12
27	Flux dynamics at the groundwater-surface water interface in a tropical catchment. Limnologica, 2018, 68, 36-45.	1.5	9
28	Fiberâ€Optic Sensing for Environmental Applications: Where We Have Come From and What Is Possible. Water Resources Research, 2018, 54, 8552-8557.	4.2	43
29	Hyporheic Exchange Controls Fate of Trace Organic Compounds in an Urban Stream. Environmental Science & Technology, 2018, 52, 12285-12294.	10.0	60
30	Active heat pulse sensing of 3-D-flow fields in streambeds. Hydrology and Earth System Sciences, 2018, 22, 1917-1929.	4.9	21
31	Comparison of infiltration rates in the dry riverbed of the Colorado River Delta during environmental flows. Ecological Engineering, 2017, 106, 675-682.	3.6	11
32	Using basic metrics to analyze high-resolution temperature data in the subsurface. Hydrogeology Journal, 2017, 25, 1501-1508.	2.1	3
33	Predicting Water Resource Impacts of Unconventional Gas Using Simple Analytical Equations. Ground Water, 2017, 55, 387-398.	1.3	2
34	Shortâ€and longâ€term evapotranspiration rates at ecological restoration sites along a large river receiving rare flow events. Hydrological Processes, 2017, 31, 4328-4337.	2.6	14
35	Residence times of streamâ€groundwater exchanges due to transient stream stage fluctuations. Water Resources Research, 2016, 52, 2059-2073.	4.2	39
36	Variations on thermal transport modelling of subsurface temperatures using high resolution data. Advances in Water Resources, 2016, 89, 1-9.	3.8	4

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37	Uncertainty of natural tracer methods for quantifying riverâ€“aquifer interaction in a large river. Journal of Hydrology, 2016, 535, 135-147.	5.4	34
38	The effect of streambed heterogeneity on groundwater-surface water exchange fluxes inferred from temperature time series. Water Resources Research, 2015, 51, 198-212.	4.2	57
39	Groundwater recharge via infiltration through an ephemeral riverbed, central Australia. Journal of Arid Environments, 2015, 117, 47-58.	2.4	66
40	Field comparison of methods for estimating groundwater discharge by evaporation and evapotranspiration in an arid-zone playa. Journal of Hydrology, 2015, 527, 1073-1083.	5.4	35
41	Drought conditions and recovery in the Coorong wetland, south Australia in 1997â€“2013. Estuarine, Coastal and Shelf Science, 2015, 163, 175-184.	2.1	20
42	3.7 Water chemistry and zooplankton communities in drainage lakes in downstream Amu Darya, Central Asia. , 2015, , 179-196.		1
43	The vertical variability of hyporheic fluxes inferred from riverbed temperature data. Water Resources Research, 2014, 50, 3994-4010.	4.2	19
44	Estimating seepage flux from ephemeral stream channels using surface water and groundwater level data. Water Resources Research, 2014, 50, 1474-1489.	4.2	24
45	A method for estimating spatially variable seepage and hydraulic conductivity in channels with very mild slopes. Hydrological Processes, 2014, 28, 51-61.	2.6	16
46	Induced Temperature Gradients to Examine Groundwater Flowpaths in Open Boreholes. Ground Water, 2014, 52, 943-951.	1.3	31
47	Characterisation of hyporheic exchange in a losing stream using radon-222. Journal of Hydrology, 2014, 519, 94-105.	5.4	43
48	Transmission losses, infiltration and groundwater recharge through ephemeral and intermittent streambeds: A review of applied methods. Journal of Hydrology, 2014, 511, 518-529.	5.4	143
49	Aquifer response to surface water transience in disconnected streams. Water Resources Research, 2012, 48, .	4.2	26
50	Uncertainty in thermal time series analysis estimates of streambed water flux. Water Resources Research, 2011, 47, .	4.2	78
51	Ecosystem and Social Construction: an Interdisciplinary Case Study of the Shurkul Lake Landscape in Khorezm, Uzbekistan.. Ecology and Society, 2011, 16, .	2.3	9
52	Development of tools to estimate conveyance losses in the Truckee River, USA. Hydrogeology Journal, 2011, 19, 329-338.	2.1	1
53	Identification of nitrogen sources to four small lakes in the agricultural region of Khorezm, Uzbekistan. Biogeochemistry, 2010, 101, 357-368.	3.5	14
54	Use of heatâ€based vertical fluxes to approximate total flux in simple channels. Water Resources Research, 2010, 46, .	4.2	29

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55	Spatial and temporal patterns of nearshore clarity in Lake Tahoe from fine resolution turbidity measurements. Lake and Reservoir Management, 2010, 26, 178-184.	1.3	3
56	Investigating Aquatic Ecosystems of Small Lakes in Khorezm, Uzbekistan. , 2009, , .		0
57	Water Quality and Aquatic Ecosystems of Irrigation Runoff Lakes in Khorezm, Uzbekistan. , 2008, , .		0