Dylan Irvine

List of Publications by Year
in descending order

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40 papers	898 citations	430874 18 h-index	477307 29 g-index
42 all docs	42 docs citations	42 times ranked	828 citing authors

#	Article	IF	Citations
1	Heterogeneous or homogeneous? Implications of simplifying heterogeneous streambeds in models of losing streams. Journal of Hydrology, 2012, 424-425, 16-23.	5.4	89
2	Experimental evaluation of the applicability of phase, amplitude, and combined methods to determine water flux and thermal diffusivity from temperature time series using VFLUX 2. Journal of Hydrology, 2015, 531, 728-737.	5.4	75
3	Using Diurnal Temperature Signals to Infer Vertical Groundwaterâ€Surface Water Exchange. Ground Water, 2017, 55, 10-26.	1.3	69
4	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
5	Inferring watershed hydraulics and cold-water habitat persistence using multi-year air and stream temperature signals. Science of the Total Environment, 2018, 636, 1117-1127.	8.0	51
6	Theory, tools, and multidisciplinary applications for tracing groundwater fluxes from temperature profiles. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1329.	6.5	50
7	Heat and Solute Tracers: How Do They Compare in Heterogeneous Aquifers?. Ground Water, 2015, 53, 10-20.	1.3	40
8	Heat as a groundwater tracer in shallow and deep heterogeneous media: Analytical solution, spreadsheet tool, and field applications. Hydrological Processes, 2017, 31, 2648-2661.	2.6	38
9	Adaptive management in groundwater planning and development: A review of theory and applications. Journal of Hydrology, 2020, 586, 124871.	5.4	31
10	Uncertainties in vertical groundwater fluxes from 1â€Ð steady state heat transport analyses caused by heterogeneity, multidimensional flow, and climate change. Water Resources Research, 2016, 52, 813-826.	4.2	30
11	Estimating the Spatial Extent of Unsaturated Zones in Heterogeneous Riverâ€Aquifer Systems. Water Resources Research, 2017, 53, 10583-10602.	4.2	30
12	Analytical solution and computer program (FAST) to estimate fluid fluxes from subsurface temperature profiles. Water Resources Research, 2016, 52, 725-733.	4.2	29
13	Groundwater flow estimation using temperature-depth profiles in a complex environment and a changing climate. Science of the Total Environment, 2017, 574, 272-281.	8.0	29
14	When Can Inverted Water Tables Occur Beneath Streams?. Ground Water, 2014, 52, 769-774.	1.3	26
15	Assessing the controls and uncertainties on mean transit times in contrasting headwater catchments. Journal of Hydrology, 2018, 557, 16-29.	5.4	22
16	Using Heat to Trace Vertical Water Fluxes in Sediment Experiencing Concurrent Tidal Pumping and Groundwater Discharge. Water Resources Research, 2021, 57, e2020WR027904.	4.2	20
17	High resolution mapping of hyporheic fluxes using streambed temperatures: Recommendations and limitations. Journal of Hydrology, 2015, 524, 137-146.	5.4	19
18	Heat-based hyporheic flux calculations in heterogeneous salmon spawning gravels. Aquatic Sciences, 2016, 78, 203-213.	1.5	18

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19	Science sidelined in approval of Australiaâ€™s largest coal mine. Nature Sustainability, 2020, 3, 644-649.	23.7	18
20	The spatial extent and timescales of bank infiltration and return flows in an upland river system: Implications for water quality and volumes. Science of the Total Environment, 2020, 743, 140748.	8.0	17
21	Heat: An Overlooked Tool in the Practicing Hydrogeologist's Toolbox. Ground Water, 2019, 57, 517-524.	1.3	16
22	Improved Vertical Streambed Flux Estimation Using Multiple Diurnal Temperature Methods in Series. Ground Water, 2017, 55, 73-80.	1.3	14
23	Rethinking the Use of Seabed Sediment Temperature Profiles to Trace Submarine Groundwater Flow. Water Resources Research, 2018, 54, 4595-4614.	4.2	14
24	Quantitative guidance for efficient vertical flow measurements at the sedimentâ€“water interface using temperatureâ€“depth profiles. Hydrological Processes, 2020, 34, 649-661.	2.6	13
25	The variation and controls of mean transit times in Australian headwater catchments. Hydrological Processes, 2020, 34, 4034-4048.	2.6	11
26	Application of Indicator Kriging to hydraulic head data to test alternative conceptual models for spring source aquifers. Journal of Hydrology, 2021, 601, 126808.	5.4	10
27	Fault-controlled springs: A review. Earth-Science Reviews, 2022, 230, 104058.	9.1	10
28	Investigating the influence of aquifer heterogeneity on the potential for thermal free convection in the Yarragadee Aquifer, Western Australia. Hydrogeology Journal, 2015, 23, 161-173.	2.1	7
29	Combined geophysical and analytical methods to estimate offshore freshwater extent. Journal of Hydrology, 2019, 576, 529-540.	5.4	7
30	Bridging the Gap Between Research and Practice. Ground Water, 2018, 56, 1-1.	1.3	6
31	Upstream Dispersion in Solute Transport Models: A Simple Evaluation and Reduction Methodology. Ground Water, 2021, 59, 287-291.	1.3	5
32	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. Water Resources Research, 2022, 58, .	4.2	5
33	Confusion About â€œConvectionâ€¦. Ground Water, 2018, 56, 683-687.	1.3	4
34	Dispersion effects on the freshwaterâ€“seawater interface in subsea aquifers. Advances in Water Resources, 2019, 130, 184-197.	3.8	4
35	Alongshore freshwater circulation in offshore aquifers. Journal of Hydrology, 2021, 593, 125915.	5.4	3
36	Estimating hydraulic properties from tidal propagation in circular islands. Journal of Hydrology, 2021, 598, 126182.	5.4	3

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37	Transience of Riparian Freshwater Lenses. Water Resources Research, 2022, 58, .	4.2	3
38	Depth to water table correction for initial carbon-14 activities in groundwater mean residence time estimation. Hydrology and Earth System Sciences, 2021, 25, 5415-5424.	4.9	2
39	<scp>CMBEAR</scp>: Pythonâ€Based Recharge Estimator Using the Chloride Mass Balance Method in Australia. Ground Water, 2022, 60, 418-425.	1.3	2
40	Mixed-Convective Processes Within Seafloor Sediments Arising From Fresh Groundwater Discharge. Frontiers in Environmental Science, 2021, 9, .	3.3	0