

Dylan Irvine

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4092254/publications.pdf>

Version: 2024-02-01

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 | Transience of Riparian Freshwater Lenses. <i>Water Resources Research</i> , 2022, 58, . | 4.2 | 3 |
| 2 | <scp>CMBEAR</scp>: Pythonâ€Based Recharge Estimator Using the Chloride Mass Balance Method in Australia. <i>Ground Water</i> , 2022, 60, 418-425. | 1.3 | 2 |
| 3 | Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. <i>Water Resources Research</i> , 2022, 58, . | 4.2 | 5 |
| 4 | Fault-controlled springs: A review. <i>Earth-Science Reviews</i> , 2022, 230, 104058. | 9.1 | 10 |
| 5 | Upstream Dispersion in Solute Transport Models: A Simple Evaluation and Reduction Methodology. <i>Ground Water</i> , 2021, 59, 287-291. | 1.3 | 5 |
| 6 | Alongshore freshwater circulation in offshore aquifers. <i>Journal of Hydrology</i> , 2021, 593, 125915. | 5.4 | 3 |
| 7 | Using Heat to Trace Vertical Water Fluxes in Sediment Experiencing Concurrent Tidal Pumping and Groundwater Discharge. <i>Water Resources Research</i> , 2021, 57, e2020WR027904. | 4.2 | 20 |
| 8 | Mixed-Convective Processes Within Seafloor Sediments Arising From Fresh Groundwater Discharge. <i>Frontiers in Environmental Science</i> , 2021, 9, . | 3.3 | 0 |
| 9 | Estimating hydraulic properties from tidal propagation in circular islands. <i>Journal of Hydrology</i> , 2021, 598, 126182. | 5.4 | 3 |
| 10 | Application of Indicator Kriging to hydraulic head data to test alternative conceptual models for spring source aquifers. <i>Journal of Hydrology</i> , 2021, 601, 126808. | 5.4 | 10 |
| 11 | Depth to water table correction for initial carbon-14 activities in groundwater mean residence time estimation. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5415-5424. | 4.9 | 2 |
| 12 | Quantitative guidance for efficient vertical flow measurements at the sedimentâ€water interface using temperatureâ€depth profiles. <i>Hydrological Processes</i> , 2020, 34, 649-661. | 2.6 | 13 |
| 13 | The spatial extent and timescales of bank infiltration and return flows in an upland river system: Implications for water quality and volumes. <i>Science of the Total Environment</i> , 2020, 743, 140748. | 8.0 | 17 |
| 14 | Science sidelined in approval of Australiaâ€™s largest coal mine. <i>Nature Sustainability</i> , 2020, 3, 644-649. | 23.7 | 18 |
| 15 | Adaptive management in groundwater planning and development: A review of theory and applications. <i>Journal of Hydrology</i> , 2020, 586, 124871. | 5.4 | 31 |
| 16 | The variation and controls of mean transit times in Australian headwater catchments. <i>Hydrological Processes</i> , 2020, 34, 4034-4048. | 2.6 | 11 |
| 17 | Combined geophysical and analytical methods to estimate offshore freshwater extent. <i>Journal of Hydrology</i> , 2019, 576, 529-540. | 5.4 | 7 |
| 18 | Dispersion effects on the freshwaterâ€seawater interface in subsea aquifers. <i>Advances in Water Resources</i> , 2019, 130, 184-197. | 3.8 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Heat: An Overlooked Tool in the Practicing Hydrogeologist's Toolbox. <i>Ground Water</i> , 2019, 57, 517-524. | 1.3 | 16 |
| 20 | Theory, tools, and multidisciplinary applications for tracing groundwater fluxes from temperature profiles. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1329. | 6.5 | 50 |
| 21 | Confusion About "Convection". <i>Ground Water</i> , 2018, 56, 683-687. | 1.3 | 4 |
| 22 | Bridging the Gap Between Research and Practice. <i>Ground Water</i> , 2018, 56, 1-1. | 1.3 | 6 |
| 23 | Assessing the controls and uncertainties on mean transit times in contrasting headwater catchments. <i>Journal of Hydrology</i> , 2018, 557, 16-29. | 5.4 | 22 |
| 24 | Inferring watershed hydraulics and cold-water habitat persistence using multi-year air and stream temperature signals. <i>Science of the Total Environment</i> , 2018, 636, 1117-1127. | 8.0 | 51 |
| 25 | Rethinking the Use of Seabed Sediment Temperature Profiles to Trace Submarine Groundwater Flow. <i>Water Resources Research</i> , 2018, 54, 4595-4614. | 4.2 | 14 |
| 26 | Improved Vertical Streambed Flux Estimation Using Multiple Diurnal Temperature Methods in Series. <i>Ground Water</i> , 2017, 55, 73-80. | 1.3 | 14 |
| 27 | Heat as a groundwater tracer in shallow and deep heterogeneous media: Analytical solution, spreadsheet tool, and field applications. <i>Hydrological Processes</i> , 2017, 31, 2648-2661. | 2.6 | 38 |
| 28 | Estimating the Spatial Extent of Unsaturated Zones in Heterogeneous River-Aquifer Systems. <i>Water Resources Research</i> , 2017, 53, 10583-10602. | 4.2 | 30 |
| 29 | Groundwater flow estimation using temperature-depth profiles in a complex environment and a changing climate. <i>Science of the Total Environment</i> , 2017, 574, 272-281. | 8.0 | 29 |
| 30 | Using Diurnal Temperature Signals to Infer Vertical Groundwater-Surface Water Exchange. <i>Ground Water</i> , 2017, 55, 10-26. | 1.3 | 69 |
| 31 | Analytical solution and computer program (<i>FAST</i>) to estimate fluid fluxes from subsurface temperature profiles. <i>Water Resources Research</i> , 2016, 52, 725-733. | 4.2 | 29 |
| 32 | Uncertainties in vertical groundwater fluxes from 1D steady state heat transport analyses caused by heterogeneity, multidimensional flow, and climate change. <i>Water Resources Research</i> , 2016, 52, 813-826. | 4.2 | 30 |
| 33 | Heat-based hyporheic flux calculations in heterogeneous salmon spawning gravels. <i>Aquatic Sciences</i> , 2016, 78, 203-213. | 1.5 | 18 |
| 34 | The effect of streambed heterogeneity on groundwater-surface water exchange fluxes inferred from temperature time series. <i>Water Resources Research</i> , 2015, 51, 198-212. | 4.2 | 57 |
| 35 | 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. <i>Journal of Hydrology</i> , 2015, 531, 728-737. | 5.4 | 75 |
| 36 | High resolution mapping of hyporheic fluxes using streambed temperatures: Recommendations and limitations. <i>Journal of Hydrology</i> , 2015, 524, 137-146. | 5.4 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Heat and Solute Tracers: How Do They Compare in Heterogeneous Aquifers?. Ground Water, 2015, 53, 10-20. | 1.3 | 40 |
| 38 | 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 |
| 39 | When Can Inverted Water Tables Occur Beneath Streams?. Ground Water, 2014, 52, 769-774. | 1.3 | 26 |
| 40 | Heterogeneous or homogeneous? Implications of simplifying heterogeneous streambeds in models of losing streams. Journal of Hydrology, 2012, 424-425, 16-23. | 5.4 | 89 |