

Burke J Minsley

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,636
citations

22
h-index

39
g-index

78
ext. papers

1,933
ext. citations

4.3
avg, IF

4.9
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 58 | Watershed zonation through hillslope clustering for tractably quantifying above- and below-ground watershed heterogeneity and functions. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 429-444 | 5.5 | 5 |
| 57 | Surface parameters and bedrock properties covary across a mountainous watershed: Insights from machine learning and geophysics.. <i>Science Advances</i> , 2022 , 8, eabj2479 | 14.3 | 0 |
| 56 | The Biophysical Role of Water and Ice Within Permafrost Nearing Collapse: Insights From Novel Geophysical Observations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2021JF006104 | 3.8 | 3 |
| 55 | Airborne geophysical surveys of the lower Mississippi Valley demonstrate system-scale mapping of subsurface architecture. <i>Communications Earth & Environment</i> , 2021 , 2, | 6.1 | 5 |
| 54 | Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021 , 16, 035010 | 6.2 | 6 |
| 53 | Probabilistic Categorical Groundwater Salinity Mapping From Airborne Electromagnetic Data Adjacent to California's Lost Hills and Belridge Oil Fields. <i>Water Resources Research</i> , 2020 , 56, e2019WR026273 | 5.4 | 8 |
| 52 | Evidence for Late Quaternary Deformation Along Crowleys Ridge, New Madrid Seismic Zone. <i>Tectonics</i> , 2020 , 39, e2019TC005746 | 4.3 | 6 |
| 51 | Characterizing the diverse hydrogeology underlying rivers and estuaries using new floating transient electromagnetic methodology. <i>Science of the Total Environment</i> , 2020 , 740, 140074 | 10.2 | 7 |
| 50 | High-resolution mapping of the freshwater-brine interface using deterministic and Bayesian inversion of airborne electromagnetic data at Paradox Valley, USA. <i>Hydrogeology Journal</i> , 2020 , 28, 941-954 | 3.1 | 5 |
| 49 | Wildfire-Initiated Talik Development Exceeds Current Thaw Projections: Observations and Models From Alaska's Continuous Permafrost Zone. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087565 | 4.9 | 8 |
| 48 | Quantifying model structural uncertainty using airborne electromagnetic data. <i>Geophysical Journal International</i> , 2020 , 224, 590-607 | 2.6 | 7 |
| 47 | Development of perennial thaw zones in boreal hillslopes enhances potential mobilization of permafrost carbon. <i>Environmental Research Letters</i> , 2019 , 14, 015003 | 6.2 | 39 |
| 46 | Inversion of airborne EM data with an explicit choice of prior model. <i>Geophysical Journal International</i> , 2019 , 218, 1348-1366 | 2.6 | 6 |
| 45 | Investigating lake-area dynamics across a permafrost-thaw spectrum using airborne electromagnetic surveys and remote sensing time-series data in Yukon Flats, Alaska. <i>Environmental Research Letters</i> , 2019 , 14, 025001 | 6.2 | 21 |
| 44 | Spatiotemporal remote sensing of ecosystem change and causation across Alaska. <i>Global Change Biology</i> , 2019 , 25, 1171-1189 | 11.4 | 63 |
| 43 | Insight from AIP modelling of VTEM ET data from Colorado. <i>ASEG Extended Abstracts</i> , 2019 , 2019, 1-6 | 0.2 | |
| 42 | Three-dimensional geophysical mapping of shallow water saturated altered rocks at Mount Baker, Washington: Implications for slope stability. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 357, 261-275 | 2.8 | 17 |

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| 41 | Generation of 3-D hydrostratigraphic zones from dense airborne electromagnetic data to assess groundwater model prediction error. <i>Water Resources Research</i> , 2017 , 53, 1019-1038 | 5.4 | 17 |
| 40 | Automatic mapping of the base of aquifer I A case study from Morrill, Nebraska. <i>Interpretation</i> , 2017 , 5, T231-T241 | 1.4 | 4 |
| 39 | In situ nuclear magnetic resonance response of permafrost and active layer soil in boreal and tundra ecosystems. <i>Cryosphere</i> , 2017 , 11, 2943-2955 | 5.5 | 13 |
| 38 | Evidence for nonuniform permafrost degradation after fire in boreal landscapes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 320-335 | 3.8 | 39 |
| 37 | Semiautomatic mapping of permafrost in the Yukon Flats, Alaska. <i>Geophysical Research Letters</i> , 2016 , 43, 12,131-12,137 | 4.9 | 6 |
| 36 | Introduction to this special section: Hydrogeophysics. <i>The Leading Edge</i> , 2016 , 35, 750-751 | 1 | 1 |
| 35 | Multiscale geophysical imaging of the critical zone. <i>Reviews of Geophysics</i> , 2015 , 53, 1-26 | 23.1 | 125 |
| 34 | Quantifying model structural uncertainty and facies prediction for locating groundwater supplies in Timor-Leste using AEM data. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-4 | 0.2 | |
| 33 | Sensitivity of airborne geophysical data to sublacustrine and near-surface permafrost thaw. <i>Cryosphere</i> , 2015 , 9, 781-794 | 5.5 | 17 |
| 32 | Multielevation calibration of frequency-domain electromagnetic data. <i>Geophysics</i> , 2014 , 79, E201-E216 | 3.1 | 6 |
| 31 | Application of near-surface geophysics as part of a hydrologic study of a subsurface drip irrigation system along the Powder River floodplain near Arvada, Wyoming. <i>International Journal of Coal Geology</i> , 2014 , 126, 128-139 | 5.5 | 2 |
| 30 | Summary of Exploration Geochemical and Mineralogical Studies at the Giant Pebble Porphyry Cu-Au-Mo Deposit, Alaska: Implications for Exploration Under Cover. <i>Economic Geology</i> , 2013 , 108, 495-527 | 4.3 | 14 |
| 29 | Extending Airborne Electromagnetic Surveys for Regional Active Layer and Permafrost Mapping with Remote Sensing and Ancillary Data, Yukon Flats Ecoregion, Central Alaska. <i>Permafrost and Periglacial Processes</i> , 2013 , 24, 184-199 | 4.2 | 28 |
| 28 | IP4DI: A software for time-lapse 2D/3D DC-resistivity and induced polarization tomography. <i>Computers and Geosciences</i> , 2013 , 54, 164-170 | 4.5 | 37 |
| 27 | Sensitivity analysis of lake mass balance in discontinuous permafrost: the example of disappearing Twelvemile Lake, Yukon Flats, Alaska (USA). <i>Hydrogeology Journal</i> , 2013 , 21, 185-200 | 3.1 | 29 |
| 26 | Linkages between lake shrinkage/expansion and sublacustrine permafrost distribution determined from remote sensing of interior Alaska, USA. <i>Geophysical Research Letters</i> , 2013 , 40, 882-887 | 4.9 | 64 |
| 25 | Geophysical investigations of geology and structure at the Martis Creek Dam, Truckee, California. <i>Journal of Applied Geophysics</i> , 2012 , 77, 7-20 | 1.7 | 31 |
| 24 | Calibration and filtering strategies for frequency domain electromagnetic data. <i>Journal of Applied Geophysics</i> , 2012 , 80, 56-66 | 1.7 | 53 |

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| 23 | Airborne electromagnetic imaging of discontinuous permafrost. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a | 4.9 | 107 |
| 22 | Imaging with cross-hole seismoelectric tomography. <i>Geophysical Journal International</i> , 2012 , 188, 1285-1302 | | 22 |
| 21 | Landscape controls on the timing of spring, autumn, and growing season length in mid-Atlantic forests. <i>Global Change Biology</i> , 2012 , 18, 656-674 | 11.4 | 156 |
| 20 | Stochastic methods for model assessment of airborne frequency-domain electromagnetic data. <i>ASEG Extended Abstracts</i> , 2012 , 2012, 1-4 | 0.2 | 1 |
| 19 | Airborne Electromagnetic Surveys for Groundwater Characterization. <i>ASEG Extended Abstracts</i> , 2012 , 2012, 1-4 | 0.2 | 0 |
| 18 | Self-potential investigations of a gravel bar in a restored river corridor. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 729-742 | 5.5 | 30 |
| 17 | Hydrogeophysical Investigations at Hidden Dam, Raymond, California. <i>Journal of Environmental and Engineering Geophysics</i> , 2011 , 16, 145-164 | 1 | 30 |
| 16 | Time-lapse three-dimensional inversion of complex conductivity data using an active time constrained (ATC) approach. <i>Geophysical Journal International</i> , 2011 , 187, 237-251 | 2.6 | 63 |
| 15 | A trans-dimensional Bayesian Markov chain Monte Carlo algorithm for model assessment using frequency-domain electromagnetic data. <i>Geophysical Journal International</i> , 2011 , 187, 252-272 | 2.6 | 127 |
| 14 | Hydrogeophysical methods for analyzing aquifer storage and recovery systems. <i>Ground Water</i> , 2011 , 49, 250-69 | 2.4 | 30 |
| 13 | Geophysical characterization and monitoring of subsurface drip irrigation, Powder River Basin, Wyoming, USA. <i>ASEG Extended Abstracts</i> , 2010 , 2010, 1-4 | 0.2 | |
| 12 | Third Year of Subsurface Drip Irrigation Monitoring Using GEM2 Electromagnetic Surveys, Powder River Basin, Wyoming 2010 , | | 2 |
| 11 | Quantitative Hydrogeological Framework Interpretations Using Heliborne Electromagnetic Surveys for the North Platte Valley, Western Nebraska Groundwater Model. <i>ASEG Extended Abstracts</i> , 2010 , 2010, 1-4 | 0.2 | 1 |
| 10 | Critical Steps for the Continuing Advancement of Hydrogeophysics. <i>Eos</i> , 2009 , 90, 200 | 1.5 | 55 |
| 9 | Minimization of self-potential survey mis-ties acquired with multiple reference locations. <i>Geophysics</i> , 2008 , 73, F71-F81 | 3.1 | 11 |
| 8 | Three-dimensional self-potential inversion for subsurface DNAPL contaminant detection at the Savannah River Site, South Carolina. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 61 |
| 7 | Three-dimensional source inversion of self-potential data. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 64 |
| 6 | Applying compactness constraints to differential travelttime tomography. <i>Geophysics</i> , 2007 , 72, R67-R75 | 3.1 | 61 |

- 5 Spatial orientation and distribution of reservoir fractures from scattered seismic energy. *Geophysics*, 2006, 71, O43-O51 3.1 97
- 4 Investigation of a fractured reservoir using P-wave AVOA analysis: A case study of the Emilio Field with support from synthetic examples 2004, 3
- 3 Characterizing methane emission hotspots from thawing permafrost. *Global Biogeochemical Cycles*, 2020, 34, e2019.00492 3.1 97
- 2 Airborne electromagnetic and magnetic geophysical survey data of the Yukon Flats and Fort Wainwright areas, central Alaska, June 2010. *US Geological Survey Open-File Report*, 2010, 1-10 9
- 1 Self-potential investigations of a gravel bar in a restored river corridor 3