

Burke J Minsley

List of Publications by Citations

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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	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
57	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
56	Multiscale geophysical imaging of the critical zone. <i>Reviews of Geophysics</i> , 2015 , 53, 1-26	23.1	125
55	Airborne electromagnetic imaging of discontinuous permafrost. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	107
54	Spatial orientation and distribution of reservoir fractures from scattered seismic energy. <i>Geophysics</i> , 2006 , 71, O43-O51	3.1	97
53	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
52	Three-dimensional source inversion of self-potential data. <i>Journal of Geophysical Research</i> , 2007 , 112,		64
51	Spatiotemporal remote sensing of ecosystem change and causation across Alaska. <i>Global Change Biology</i> , 2019 , 25, 1171-1189	11.4	63
50	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
49	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
48	Applying compactness constraints to differential travelttime tomography. <i>Geophysics</i> , 2007 , 72, R67-R75	3.1	61
47	Critical Steps for the Continuing Advancement of Hydrogeophysics. <i>Eos</i> , 2009 , 90, 200	1.5	55
46	Calibration and filtering strategies for frequency domain electromagnetic data. <i>Journal of Applied Geophysics</i> , 2012 , 80, 56-66	1.7	53
45	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
44	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
43	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
42	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

41	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
40	Hydrogeophysical Investigations at Hidden Dam, Raymond, California. <i>Journal of Environmental and Engineering Geophysics</i> , 2011 , 16, 145-164	1	30
39	Hydrogeophysical methods for analyzing aquifer storage and recovery systems. <i>Ground Water</i> , 2011 , 49, 250-69	2.4	30
38	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
37	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
36	Imaging with cross-hole seismoelectric tomography. <i>Geophysical Journal International</i> , 2012 , 188, 1285-1302	2.2	22
35	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
34	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
33	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
32	Sensitivity of airborne geophysical data to sublacustrine and near-surface permafrost thaw. <i>Cryosphere</i> , 2015 , 9, 781-794	5.5	17
31	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
30	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
29	Minimization of self-potential survey mis-ties acquired with multiple reference locations. <i>Geophysics</i> , 2008 , 73, F71-F81	3.1	11
28	Airborne electromagnetic and magnetic geophysical survey data of the Yukon Flats and Fort Wainwright areas, central Alaska, June 2010. <i>US Geological Survey Open-File Report</i> ,		9
27	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
26	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
25	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
24	Quantifying model structural uncertainty using airborne electromagnetic data. <i>Geophysical Journal International</i> , 2020 , 224, 590-607	2.6	7

23	Inversion of airborne EM data with an explicit choice of prior model. <i>Geophysical Journal International</i> , 2019 , 218, 1348-1366	2.6	6
22	Evidence for Late Quaternary Deformation Along Crowleys Ridge, New Madrid Seismic Zone. <i>Tectonics</i> , 2020 , 39, e2019TC005746	4.3	6
21	Multielevation calibration of frequency-domain electromagnetic data. <i>Geophysics</i> , 2014 , 79, E201-E216	3.1	6
20	Semiautomatic mapping of permafrost in the Yukon Flats, Alaska. <i>Geophysical Research Letters</i> , 2016 , 43, 12,131-12,137	4.9	6
19	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021 , 16, 035010	6.2	6
18	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
17	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
16	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
15	Automatic mapping of the base of aquifer A case study from Morrill, Nebraska. <i>Interpretation</i> , 2017 , 5, T231-T241	1.4	4
14	Characterizing methane emission hotspots from thawing permafrost. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006922	5.6	4
13	Investigation of a fractured reservoir using P-wave AVOA analysis: A case study of the Emilio Field with support from synthetic examples 2004 ,		3
12	Self-potential investigations of a gravel bar in a restored river corridor		3
11	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
10	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
9	Third Year of Subsurface Drip Irrigation Monitoring Using GEM2 Electromagnetic Surveys, Powder River Basin, Wyoming 2010 ,		2
8	Stochastic methods for model assessment of airborne frequency-domain electromagnetic data. <i>ASEG Extended Abstracts</i> , 2012 , 2012, 1-4	0.2	1
7	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
6	Introduction to this special section: Hydrogeophysics. <i>The Leading Edge</i> , 2016 , 35, 750-751	1	1

5	Airborne Electromagnetic Surveys for Groundwater Characterization. <i>ASEG Extended Abstracts</i> , 2012 , 2012, 1-4	0.2	0
4	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
3	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	
2	Geophysical characterization and monitoring of subsurface drip irrigation, Powder River Basin, Wyoming, USA. <i>ASEG Extended Abstracts</i> , 2010 , 2010, 1-4	0.2	
1	Insight from AIP modelling of VTEM ET data from Colorado. <i>ASEG Extended Abstracts</i> , 2019 , 2019, 1-6	0.2	