

Andrew D Parsekian

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,399
citations

331538

21
h-index

360920

35
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63
all docs

63
docs citations

63
times ranked

1805
citing authors

#	ARTICLE	IF	CITATIONS
1	Lake and drained lake basin systems in lowland permafrost regions. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 85-98.	12.2	41
2	Spatial snowdrift modelling for an open natural terrain using a physically-based linear particle distribution equation. <i>Hydrological Processes</i> , 2022, 36, .	1.1	3
3	A new Stefan equation to characterize the evolution of thermokarst lake and talik geometry. <i>Cryosphere</i> , 2022, 16, 1247-1264.	1.5	5
4	Hydrogeophysical Inversion of Time-lapse ERT Data to Determine Hillslope Subsurface Hydraulic Properties. <i>Water Resources Research</i> , 2022, 58, .	1.7	7
5	Geostatistical Rock Physics Inversion for Predicting the Spatial Distribution of Porosity and Saturation in the Critical Zone. <i>Mathematical Geosciences</i> , 2022, 54, 1315-1345.	1.4	3
6	Geophysical Observations of Taliks Below Drained Lake Basins on the Arctic Coastal Plain of Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020889.	1.4	9
7	Active layer thickness as a function of soil water content. <i>Environmental Research Letters</i> , 2021, 16, 055028.	2.2	35
8	Influence of permafrost thaw on an extreme geologic methane seep. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 484-502.	1.5	8
9	Remote Sensing-Based Statistical Approach for Defining Drained Lake Basins in a Continuous Permafrost Region, North Slope of Alaska. <i>Remote Sensing</i> , 2021, 13, 2539.	1.8	8
10	Hydrogeophysical comparison of hillslope critical zone architecture for different geologic substrates. <i>Geophysics</i> , 2021, 86, WB87-WB107.	1.4	5
11	Validation of Permafrost Active Layer Estimates from Airborne SAR Observations. <i>Remote Sensing</i> , 2021, 13, 2876.	1.8	9
12	Permafrost Dynamics Observatory—Part I: Postprocessing and Calibration Methods of UAVSAR L-Band InSAR Data for Seasonal Subsidence Estimation. <i>Earth and Space Science</i> , 2021, 8, e2020EA001630.	1.1	11
13	Hydrogeophysics — Introduction. <i>Geophysics</i> , 2021, 86, WBi-WBii.	1.4	0
14	Permafrost Dynamics Observatory: Retrieval of Active Layer Thickness and Soil Moisture from Airborne Insar and Polsar Data. , 2021, , .		0
15	Identifying historical and future potential lake drainage events on the western Arctic coastal plain of Alaska. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 110-127.	1.5	30
16	Field scale quantification indicates potential for variability in return flows from flood irrigation in the high altitude western US. <i>Agricultural Water Management</i> , 2020, 232, 106062.	2.4	4
17	Parameterization of a hydrologic model with geophysical data to simulate observed subsurface return flow paths. <i>Vadose Zone Journal</i> , 2020, 19, e20024.	1.3	11
18	Joint Retrieval of Soil Moisture and Permafrost Active Layer Thickness Using L-Band Insar and P-Band Polsar. , 2020, , .		1

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19	Hydraulic Conductivity Calibration of Logging NMR in a Granite Aquifer, Laramie Range, Wyoming. <i>Ground Water</i> , 2019, 57, 303-319.	0.7	29
20	Plant Hydraulic Stress Explained Tree Mortality and Tree Size Explained Beetle Attack in a Mixed Conifer Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3555-3568.	1.3	16
21	Characterizing the Critical Zone Using Borehole and Surface Nuclear Magnetic Resonance. <i>Vadose Zone Journal</i> , 2019, 18, 1-18.	1.3	19
22	Inference of the impact of wildfire on permafrost and active layer thickness in a discontinuous permafrost region using the remotely sensed active layer thickness (ReSALT) algorithm. <i>Environmental Research Letters</i> , 2019, 14, 035007.	2.2	64
23	Observing Heterogeneous Unsaturated Flow at the Hillslope Scale Using Time-lapse Electrical Resistivity Tomography. <i>Vadose Zone Journal</i> , 2019, 18, 1-16.	1.3	24
24	Uniform and lateral preferential flows under flood irrigation at field scale. <i>Hydrological Processes</i> , 2019, 33, 2131-2147.	1.1	12
25	Surface nuclear magnetic resonance observations of permafrost thaw below floating, bedfast, and transitional ice lakes. <i>Geophysics</i> , 2019, 84, EN33-EN45.	1.4	13
26	Estimating winter ebullition bubble volume in lake ice using ground-penetrating radar. <i>Geophysics</i> , 2018, 83, H13-H25.	1.4	4
27	Contrasting lake ice responses to winter climate indicate future variability and trends on the Alaskan Arctic Coastal Plain. <i>Environmental Research Letters</i> , 2018, 13, 125001.	2.2	11
28	Transient Electromagnetic Surveys for the Determination of Talik Depth and Geometry Beneath Thermokarst Lakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9310-9323.	1.4	21
29	Estimating the water holding capacity of the critical zone using near-surface geophysics. <i>Hydrological Processes</i> , 2018, 32, 3308-3326.	1.1	59
30	Why Are Some Rocky Mountain Lakes Ephemeral?. <i>Water Resources Research</i> , 2018, 54, 5245-5263.	1.7	13
31	Geophysical Measurements to Determine the Hydrologic Partitioning of Snowmelt on a Snow-dominated Subalpine Hillslope. <i>Water Resources Research</i> , 2018, 54, 3788-3808.	1.7	32
32	Inverse Methods to Improve Accuracy of Water Content Estimates from Multi-offset GPR. <i>Journal of Environmental and Engineering Geophysics</i> , 2018, 23, 349-361.	1.0	11
33	Symmetry based frequency domain processing to remove harmonic noise from surface nuclear magnetic resonance measurements. <i>Geophysical Journal International</i> , 2017, 208, 724-736.	1.0	8
34	Comparing Measurement Response and Inverted Results of Electrical Resistivity Tomography Instruments. <i>Journal of Environmental and Engineering Geophysics</i> , 2017, 22, 249-266.	1.0	27
35	Estimating active layer thickness and volumetric water content from ground penetrating radar measurements in Barrow, Alaska. <i>Geoscience Data Journal</i> , 2017, 4, 72-79.	1.8	14
36	Presence of rapidly degrading permafrost plateaus in south-central Alaska. <i>Cryosphere</i> , 2016, 10, 2673-2692.	1.5	34

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37	Characterizing Heterogeneity in Infiltration Rates During Managed Aquifer Recharge. <i>Ground Water</i> , 2016, 54, 818-829.	0.7	20
38	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. <i>Geophysical Research Letters</i> , 2016, 43, 6358-6365.	1.5	68
39	<sc>NMR</sc> Logging to Estimate Hydraulic Conductivity in Unconsolidated Aquifers. <i>Ground Water</i> , 2016, 54, 104-114.	0.7	49
40	Ground-penetrating radar-derived measurements of active-layer thickness on the landscape scale with sparse calibration at Toolik and Happy Valley, Alaska. <i>Geophysics</i> , 2016, 81, H9-H19.	1.4	14
41	Advancements in the measurement of the cryosphere using geophysics – Introduction. <i>Geophysics</i> , 2016, 81, WAI-WAii.	1.4	2
42	Ground-penetrating radar-derived measurements of active-layer thickness on the landscape scale with sparse calibration at Toolik and Happy Valley, Alaska. <i>Geophysics</i> , 2016, 81, H1-H11.	1.4	3
43	Remotely Sensed Active Layer Thickness (ReSALT) at Barrow, Alaska Using Interferometric Synthetic Aperture Radar. <i>Remote Sensing</i> , 2015, 7, 3735-3759.	1.8	59
44	Hydrogeophysics for Informed Water Management Decisions in the Anangu Pitjantjatjara Yankunytjatjara (APY) Lands of South Australia. <i>ASEG Extended Abstracts</i> , 2015, 2015, 1-3.	0.1	2
45	Uncertainty estimates for surface nuclear magnetic resonance water content and relaxation time profiles from bootstrap statistics. <i>Journal of Applied Geophysics</i> , 2015, 119, 61-70.	0.9	21
46	Bootstrap Calibration and Uncertainty Estimation of Downhole <sc>NMR</sc> Hydraulic Conductivity Estimates in an Unconsolidated Aquifer. <i>Ground Water</i> , 2015, 53, 111-121.	0.7	19
47	Multiscale geophysical imaging of the critical zone. <i>Reviews of Geophysics</i> , 2015, 53, 1-26.	9.0	192
48	Surface NMR to Image Aquifer Properties in a Magnetic Subsurface. <i>ASEG Extended Abstracts</i> , 2015, 2015, 1-5.	0.1	0
49	Seasonal thaw settlement at drained thermokarst lake basins, Arctic Alaska. <i>Cryosphere</i> , 2014, 8, 815-826.	1.5	50
50	Near-surface geophysics for informed water-management decisions in the Anangu Pitjantjatjara Yankunytjatjara (APY) lands of South Australia. <i>The Leading Edge</i> , 2014, 33, 1342-1347.	0.4	2
51	The effect of peat structure on the spatial distribution of biogenic gases within bogs. <i>Hydrological Processes</i> , 2014, 28, 5483-5494.	1.1	29
52	Geophysical and Hydrochemical Identification of Flow Paths with Implications for Water Quality at an <sc>ARR</sc> Site. <i>Ground Water Monitoring and Remediation</i> , 2014, 34, 105-116.	0.6	19
53	Detecting unfrozen sediments below thermokarst lakes with surface nuclear magnetic resonance. <i>Geophysical Research Letters</i> , 2013, 40, 535-540.	1.5	45
54	Quantifying landscape morphology influence on peatland lateral expansion using ground-penetrating radar (GPR) and peat core analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 373-384.	1.3	39

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55	The state of the science and vision of the future: Report from the Hydrogeophysics Workshop. The Leading Edge, 2013, 32, 814-818.	0.4	1
56	Calibrating surface NMR hydraulic conductivity estimates using logging NMR and direct hydraulic conductivity measurements. , 2013, , .		0
57	Uncertainty in Peat Volume and Soil Carbon Estimated Using Groundâ€Penetrating Radar and Probing. Soil Science Society of America Journal, 2012, 76, 1911-1918.	1.2	63
58	Application of groundâ€penetrating radar to measure nearâ€saturation soil water content in peat soils. Water Resources Research, 2012, 48, .	1.7	26
59	Small Root Biomass Effect on the Dielectric Properties of Soil. Vadose Zone Journal, 2012, 11, .	1.3	5
60	Geophysical evidence for the lateral distribution of free phase gas at the peat basin scale in a large northern peatland. Journal of Geophysical Research, 2011, 116, .	3.3	21
61	Expansion rate and geometry of floating vegetation mats on the margins of thermokarst lakes, northern Seward Peninsula, Alaska, USA. Earth Surface Processes and Landforms, 2011, 36, 1889-1897.	1.2	21
62	Variations in freeâ€phase gases in peat landforms determined by groundâ€penetrating radar. Journal of Geophysical Research, 2010, 115, .	3.3	28