

Shelley MacDonell

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

996
citations

430442

18
h-index

454577

30
g-index

57
all docs

57
docs citations

57
times ranked

1227
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of soiling on photovoltaic (PV) modules in the Atacama Desert. <i>Scientific Reports</i> , 2018, 8, 13943.	1.6	82
2	Glacier contribution to streamflow in two headwaters of the Huasco River, Dry Andes of Chile. <i>Cryosphere</i> , 2011, 5, 1099-1113.	1.5	79
3	A Review of the Current State and Recent Changes of the Andean Cryosphere. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	74
4	Automated detection of rock glaciers using deep learning and object-based image analysis. <i>Remote Sensing of Environment</i> , 2020, 250, 112033.	4.6	71
5	Meteorological drivers of ablation processes on a cold glacier in the semi-arid Andes of Chile. <i>Cryosphere</i> , 2013, 7, 1513-1526.	1.5	65
6	The formation and hydrological significance of cryoconite holes. <i>Progress in Physical Geography</i> , 2008, 32, 595-610.	1.4	52
7	Rock glaciers as a water resource in a changing climate in the semiarid Chilean Andes. <i>Regional Environmental Change</i> , 2019, 19, 1263-1279.	1.4	49
8	Recent Deceleration of the Ice Elevation Change of Ecology Glacier (King George Island, Antarctica). <i>Remote Sensing</i> , 2017, 9, 520.	1.8	43
9	Black carbon and other light-absorbing impurities in snow in the Chilean Andes. <i>Scientific Reports</i> , 2019, 9, 4008.	1.6	42
10	Modelling the hydrological response of debris-free and debris-covered glaciers to present climatic conditions in the semiarid Andes of central Chile. <i>Hydrological Processes</i> , 2016, 30, 4036-4058.	1.1	40
11	Interannual variability in glacier contribution to runoff from a high-elevation Andean catchment: understanding the role of debris cover in glacier hydrology. <i>Hydrological Processes</i> , 2019, 33, 214-229.	1.1	34
12	Patterns of glacier ablation across north-central Chile: Identifying the limits of empirical melt models under sublimation-favorable conditions. <i>Water Resources Research</i> , 2017, 53, 5601-5625.	1.7	32
13	Impact of forcing on sublimation simulations for a high mountain catchment in the semiarid Andes. <i>Cryosphere</i> , 2020, 14, 147-163.	1.5	25
14	Characterizing the Water Storage Capacity and Hydrological Role of Mountain Peatlands in the Arid Andes of North-Central Chile. <i>Water (Switzerland)</i> , 2020, 12, 1071.	1.2	24
15	Mechanisms of basal ice formation in polar glaciers: An evaluation of the apron entrainment model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	23
16	Albedo variations and the impact of clouds on glaciers in the Chilean semi-arid Andes. <i>Journal of Glaciology</i> , 2014, 60, 183-191.	1.1	23
17	3-D surface properties of glacier penitentes over an ablation season, measured using a Microsoft Xbox Kinect. <i>Cryosphere</i> , 2016, 10, 1897-1913.	1.5	23
18	Parameterisation of incoming longwave radiation over glacier surfaces in the semiarid Andes of Chile. <i>Theoretical and Applied Climatology</i> , 2013, 111, 513-528.	1.3	22

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19	Seasonal evolution of penitente glaciochemistry at Tapado Glacier, Northern Chile. <i>Hydrological Processes</i> , 2016, 30, 176-186.	1.1	21
20	Mass Balance and Climate History of a High-Altitude Glacier, Desert Andes of Chile. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	19
21	Groundwater level trends and recharge event characterization using historical observed data in semi-arid Chile. <i>Hydrological Sciences Journal</i> , 2020, 65, 597-609.	1.2	18
22	Glacier and rock glacier changes since the 1950s in the La Laguna catchment, Chile. <i>Cryosphere</i> , 2022, 16, 647-665.	1.5	15
23	Seasonal sediment fluxes forcing supraglacial melting on the Wright Lower Glacier, McMurdo Dry Valleys, Antarctica. <i>Hydrological Processes</i> , 2013, 27, 3192-3207.	1.1	12
24	New insights into the use of stable water isotopes at the northern Antarctic Peninsula as a tool for regional climate studies. <i>Cryosphere</i> , 2018, 12, 1069-1090.	1.5	12
25	Observations of cryoconite hole system processes on an Antarctic glacier. <i>Revista Chilena De Historia Natural</i> , 2012, 85, 393-407.	0.5	10
26	Combination of Aerial, Satellite, and UAV Photogrammetry for Quantifying Rock Glacier Kinematics in the Dry Andes of Chile (30°S) Since the 1950s. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	10
27	Contrasting geophysical signatures of a relict and an intact Andean rock glacier. <i>Cryosphere</i> , 2022, 16, 1579-1596.	1.5	10
28	Snow model comparison to simulate snow depth evolution and sublimation at point scale in the semi-arid Andes of Chile. <i>Cryosphere</i> , 2021, 15, 4241-4259.	1.5	8
29	Improving the underground structural characterization and hydrological functioning of an Andean peatland using geoelectrics and water stable isotopes in semi-arid Chile. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	8
30	Spatial Distribution and Scaling Properties of Lidar-Derived Snow Depth in the Extratropical Andes. <i>Water Resources Research</i> , 2020, 56, e2020WR028480.	1.7	7
31	Elemental and Mineralogical Composition of the Western Andean Snow (18°S–41°S). <i>Scientific Reports</i> , 2019, 9, 8130.	1.6	5
32	Stratigraphic Analysis of Firn Cores from an Antarctic Ice Shelf Firn Aquifer. <i>Water (Switzerland)</i> , 2021, 13, 731.	1.2	5
33	The Snowline and 0°C Isotherm Altitudes During Precipitation Events in the Dry Subtropical Chilean Andes as Seen by Citizen Science, Surface Stations, and ERA5 Reanalysis Data. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	5
34	Cryoconite hole connectivity on the Wright Lower Glacier, McMurdo Dry Valleys, Antarctica. <i>Journal of Glaciology</i> , 2016, 62, 714-724.	1.1	4
35	Major atmospheric particulate matter sources for glaciers in Coquimbo Region, Chile. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36817-36827.	2.7	4
36	Evaluation of MODIS-derived estimates of the albedo over the Atacama Desert using ground-based spectral measurements. <i>Scientific Reports</i> , 2021, 11, 19822.	1.6	4

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37	Black carbon in the Southern Andean snowpack. <i>Environmental Research Letters</i> , 2022, 17, 044042.	2.2	4
38	Brief communication: A framework to classify glaciers for water resource evaluation and management in the Southern Andes. <i>Cryosphere</i> , 2022, 16, 1779-1791.	1.5	4
39	Snow Cover and Glaciers. <i>World Water Resources</i> , 2021, , 129-151.	0.4	2
40	Mass Balance and Meteorological Conditions at Universidad Glacier, Central Chile. , 2018, , 102-123.		1
41	CEAZA mega board: an open-source data logger for scientists. <i>International Journal of Reconfigurable and Embedded Systems (IJRES)</i> , 2022, 11, 175.	0.3	0