

Gregory Carling

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

628
citations

516710

16
h-index

642732

23
g-index

40
all docs

40
docs citations

40
times ranked

884
citing authors

#	ARTICLE	IF	CITATIONS
1	Dust-mediated loading of trace and major elements to Wasatch Mountain snowpack. <i>Science of the Total Environment</i> , 2012, 432, 65-77.	8.0	58
2	Sediment potentially controls in-lake phosphorus cycling and harmful cyanobacteria in shallow, eutrophic Utah Lake. <i>PLoS ONE</i> , 2019, 14, e0212238.	2.5	50
3	Particulate and Dissolved Trace Element Concentrations in Three Southern Ecuador Rivers Impacted by Artisanal Gold Mining. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	48
4	Total- and methyl-mercury concentrations and methylation rates across the freshwater to hypersaline continuum of the Great Salt Lake, Utah, USA. <i>Science of the Total Environment</i> , 2015, 511, 489-500.	8.0	32
5	Large subglacial source of mercury from the southwestern margin of the Greenland Ice Sheet. <i>Nature Geoscience</i> , 2021, 14, 496-502.	12.9	32
6	Relationships of surface water, pore water, and sediment chemistry in wetlands adjacent to Great Salt Lake, Utah, and potential impacts on plant community health. <i>Science of the Total Environment</i> , 2013, 443, 798-811.	8.0	30
7	Tundra wildfire triggers sustained lateral nutrient loss in Alaskan Arctic. <i>Global Change Biology</i> , 2021, 27, 1408-1430.	9.5	29
8	Aeolian dust chemistry and bacterial communities in snow are unique to airshed locations across northern Utah, USA. <i>Atmospheric Environment</i> , 2018, 193, 251-261.	4.1	27
9	Trace element chemistry of atmospheric deposition along the Wasatch Front (Utah, USA) reflects regional playa dust and local urban aerosols. <i>Chemical Geology</i> , 2019, 530, 119317.	3.3	27
10	Trace element diel variations and particulate pulses in perimeter freshwater wetlands of Great Salt Lake, Utah. <i>Chemical Geology</i> , 2011, 283, 87-98.	3.3	23
11	Isotope fingerprinting reveals western North American sources of modern dust in the Uinta Mountains, Utah, USA. <i>Aeolian Research</i> , 2019, 38, 39-47.	2.7	23
12	Mechanisms, timing, and rates of arid region mountain front recharge. <i>Journal of Hydrology</i> , 2012, 428-429, 15-31.	5.4	22
13	Evaluating natural and anthropogenic trace element inputs along an alpine to urban gradient in the Provo River, Utah, USA. <i>Applied Geochemistry</i> , 2015, 63, 398-412.	3.0	22
14	Effect of Atmospheric Deposition and Weathering on Trace Element Concentrations in Glacial Meltwater at Grand Teton National Park, Wyoming, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2017, 49, 427-440.	1.1	22
15	Designing and Implementing a Network for Sensing Water Quality and Hydrology across Mountain to Urban Transitions. <i>Journal of the American Water Resources Association</i> , 2017, 53, 1095-1120.	2.4	19
16	Gravity-induced stress as a factor reducing decay of sandstone monuments in Petra, Jordan. <i>Journal of Cultural Heritage</i> , 2016, 19, 415-425.	3.3	18
17	Using strontium isotopes to trace dust from a drying Great Salt Lake to adjacent urban areas and mountain snowpack. <i>Environmental Research Letters</i> , 2020, 15, 114035.	5.2	18
18	Health risk assessment of heavy metals (Hg, Pb, Cd, Cr and As) via consumption of vegetables cultured in agricultural sites in Arequipa, Peru. <i>Chemical Data Collections</i> , 2021, 33, 100723.	2.3	13

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19	Investigating Anthropogenic and Geogenic Sources of Groundwater Contamination in a Semi-Arid Alluvial Basin, Goshen Valley, UT, USA. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	12
20	Comparison of Mercury Contamination in Four Indonesian Watersheds Affected by Artisanal and Small-Scale Gold Mining of Varying Scale. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	12
21	Mercury and dissolved organic matter dynamics during snowmelt runoff in a montane watershed, Provo River, Utah, USA. <i>Science of the Total Environment</i> , 2020, 704, 135297.	8.0	12
22	Thermal groundwater contributions of arsenic and other trace elements to the middle Provo River, Utah, USA. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	10
23	Density-Stratified Flow Events in Great Salt Lake, Utah, USA: Implications for Mercury and Salinity Cycling. <i>Aquatic Geochemistry</i> , 2014, 20, 547-571.	1.3	8
24	Temperatures, thermal structure, and behavior of eruptions at Kilauea and Erta Ale volcanoes using a consumer digital camcorder. <i>GeoResJ</i> , 2015, 5, 47-56.	1.4	7
25	Stream Microbial Community Structured by Trace Elements, Headwater Dispersal, and Large Reservoirs in Sub-Alpine and Urban Ecosystems. <i>Frontiers in Microbiology</i> , 2020, 11, 491425.	3.5	7
26	Megafire affects stream sediment flux and dissolved organic matter reactivity, but land use dominates nutrient dynamics in semiarid watersheds. <i>PLoS ONE</i> , 2021, 16, e0257733.	2.5	7
27	DinÃ© citizen science: Phytoremediation of uranium and arsenic in the Navajo Nation. <i>Science of the Total Environment</i> , 2021, 794, 148665.	8.0	7
28	Monitoring Change in Great Salt Lake. <i>Eos</i> , 2013, 94, 289-290.	0.1	6
29	Redox conditions and pH control trace element concentrations in a meandering stream and shallow groundwater of a semiarid mountain watershed, Red Canyon, Wyoming, USA. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	4
30	An integrated high-resolution geophysical and geologic visualization of a Lake Bonneville shoreline deposit (Utah, USA). <i>Interpretation</i> , 2019, 7, T265-T282.	1.1	4
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32	Glaciers Control the Hydrogeochemistry of Proglacial Streams During Late Summer in the Wind River Range, Wyoming, United States. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	4
33	Imaging the Margins of Pleistocene Lake Deposits with High-Resolution Seismic Reflection in the Eastern Basin and Range. <i>Developments in Earth Surface Processes</i> , 2016, 20, 526-550.	2.8	3
34	Strontium isotope dynamics reveal streamflow contributions from shallow flow paths during snowmelt in a montane watershed, Provo River, Utah, USA. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
35	Trace Element Export From the Critical Zone Triggered by Snowmelt Runoff in a Montane Watershed, Provo River, Utah, USA. <i>Frontiers in Water</i> , 2020, 2, .	2.3	2
36	Mercury and Other Trace Elements in Glacial Meltwater at Grand Teton National Park, Wyoming. <i>Annual Report</i> , 0, 36, 2-9.	0.0	2

#	ARTICLE	IF	CITATIONS
37	Moving beyond the direction of climate change to estimating its magnitude: A water budget approach for wetland systems. Quaternary International, 2021, 592, 22-36.	1.5	1
38	Spatial and seasonal variation in ecosystem metabolism are associated with aquatic macrophyte traits, shading, and water temperature in a shallow riparian pond. Freshwater Science, 2021, 40, 39-52.	1.8	0
39	Mineral Precipitation In Utah Lake And Its Effluent Mixing Zones. , 2022, , .		0