

# Stephen Nelson

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

542  
citations

567281

15  
h-index

713466

21  
g-index

57  
all docs

57  
docs citations

57  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Interbasin flow revisited: The contribution of local recharge to high-discharge springs, Death Valley, CA. <i>Journal of Hydrology</i> , 2006, 323, 276-302.	5.4	34
3	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
4	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
5	Pilot study experiments sourcing quartzite, Gunnison Basin, Colorado. <i>Geoarchaeology - an International Journal</i> , 2008, 23, 742-778.	1.5	25
6	Regional groundwater flow in structurally-complex extended terranes: An evaluation of the sources of discharge at Ash Meadows, Nevada. <i>Journal of Hydrology</i> , 2010, 386, 118-129.	5.4	25
7	LA-ICP-MS analysis of quartzite from the Upper Gunnison Basin, Colorado. <i>Journal of Archaeological Science</i> , 2013, 40, 2196-2216.	2.4	25
8	Why conceptual groundwater flow models matter: a trans-boundary example from the arid Great Basin, western USA. <i>Hydrogeology Journal</i> , 2012, 20, 1133-1147.	2.1	23
9	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
10	The denudation of ocean islands by ground and surface waters: The effects of climate, soil thickness, and water contact times on Oahu, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 276-294.	3.9	21
11	Quaternary hinterland evolution of the active Banda Arc: Surface uplift and neotectonic deformation recorded by coral terraces at Kisar, Indonesia. <i>Journal of Asian Earth Sciences</i> , 2013, 73, 149-161.	2.3	20
12	Application of HVSR to estimating thickness of laterite weathering profiles in basalt. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1365-1376.	2.5	19
13	The role of interbasin groundwater transfers in geologically complex terranes, demonstrated by the Great Basin in the western United States. <i>Hydrogeology Journal</i> , 2014, 22, 807-828.	2.1	18
14	Assessment of Soil Features on the Growth of Environmental Nontuberculous Mycobacterial Isolates from Hawai'i. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	18
15	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
16	A geophysical strategy for measuring the thickness of the critical zone developed over basalt lavas. , 2015, 11, 514-532.		15
17	A conceptual model for the rapid weathering of tropical ocean islands: A synthesis of geochemistry and geophysics, Kohala Peninsula, Hawaii, USA. , 2018, 14, 1324-1342.		15
18	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

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19	Uncertainty in 14C model ages of saturated zone waters: The influence of soil gas in terranes dominated by C3 plants. <i>Journal of Hydrology</i> , 2010, 392, 83-95.	5.4	11
20	A structural study of thermal tufas using ground-penetrating radar. <i>Journal of Applied Geophysics</i> , 2012, 81, 38-47.	2.1	11
21	Enhanced fracture permeability and accompanying fluid flow in the footwall of a normal fault: The Hurricane fault at Pah Tempe hot springs, Washington County, Utah. <i>Bulletin of the Geological Society of America</i> , 2006, preprint, 1.	3.3	10
22	A 13,000-year multi-proxy climate record from central Utah (western USA), emphasizing conditions leading to large mass movements. <i>Boreas</i> , 2017, 46, 308-324.	2.4	9
23	Late Pleistocene to Early Holocene Sedimentary History of the Lake Bonneville Pilot Valley Embayment, Utah-Nevada, USA. <i>Developments in Earth Surface Processes</i> , 2016, 20, 184-220.	2.8	9
24	Exposure Pathways of Nontuberculous Mycobacteria Through Soil, Streams, and Groundwater, Hawai'i, USA. <i>GeoHealth</i> , 2021, 5, e2020GH000350.	4.0	8
25	Soil Properties and Moisture Synergistically Influence Nontuberculous Mycobacterial Prevalence in Natural Environments of Hawai'i. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0001822.	3.1	7
26	Comparing electromagnetic and seismic geophysical methods: Estimating the depth to water in geologically simple and complex arid environments. <i>Engineering Geology</i> , 2011, 117, 62-77.	6.3	6
27	Multi-proxy reassessment of the paleolimnology of Lake Bonneville (western USA) as observed in the restricted Pilot Valley sub-basin. <i>Journal of Quaternary Science</i> , 2018, 33, 177-193.	2.1	6
28	Neotectonics of the Sevier Desert basin, Utah as seen through the lens of multi-scale geophysical investigations. <i>Tectonophysics</i> , 2015, 654, 131-155.	2.2	5
29	The lateral and vertical growth of laterite weathering profiles, Hawaiian Islands, USA. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2940-2953.	2.5	5
30	Reply to [Comment on "Testing the interbasin flow hypothesis at Death Valley, California"] Winograd et al.. <i>Eos</i> , 2005, 86, 296.	0.1	4
31	A combined geological, hydrochemical, and geophysical approach to understanding a disease contamination hazard in groundwaters at a state fish hatchery. <i>Natural Hazards</i> , 2013, 69, 545-571.	3.4	4
32	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
33	Pyrolysis of modern wetland sediment: extracting climate records from fens in the Uinta Mountains and Fish Lake Plateau, Utah, USA. <i>Boreas</i> , 2019, 48, 810-824.	2.4	4
34	éçâ†...æµç†â°(ç3/4Žâ½âšç†â°)æµ...â±,â°ä,æ°'æµâ'CEâ'è½-çš,,æ;çæ°'ç•CEÉç. <i>Hydrogeology Journal</i> , 2020, 28, 2877-2902.		
35	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
36	Archaeological Fingerprinting and Fremont Figurines. <i>Advances in Archaeological Practice</i> , 2013, 1, 3-12.	1.2	3

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37	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
38	Ocean waves as a passive MASW source. <i>Journal of Applied Geophysics</i> , 2019, 171, 103860.	2.1	3
39	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
40	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
41	Moving beyond the direction of climate change to estimating its magnitude: A water budget approach for wetland systems. <i>Quaternary International</i> , 2021, 592, 22-36.	1.5	1
42	THE EARLY WEATHERING OF OCEAN ISLANDS: A SYNTHESIS OF GEOCHEMISTRY AND GEOPHYSICS, KOHALA PENINSULA, HAWAII, USA. , 2017, , .		1
43	From Hypersaline to Fresh-Brackish: Documenting the Impacts of Human Intervention on a Natural Water Body from Cores, Farmington Bay, UT, USA. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	2.4	1
44	Mapping thermal tufa deposits using GPR. , 2010, , .		0
45	Investigating Velocity Structure in the Weathering Zone of Hawaiian Basalts. , 2015, , .		0
46	Reply to Comment on "The role of interbasin groundwater transfers in geologically complex terranes, demonstrated by the Great Basin in the western United States" report published in <i>Hydrogeology Journal</i> (2014) 22:807-828 by Stephen T. Nelson and Alan L. Mayo. <i>Hydrogeology Journal</i> , 2015, 23, 211-212.	2.1	0
47	Nontuberculous Mycobacterial Diversity in the Built and Natural/Outdoor Environments of Hawaii™. , 2019, , .		0
48	Multi-Scale, Multiple-Method Geophysical Investigations of Neotectonic Features in Extensional Terranes. , 2015, , .		0
49	INVESTIGATING TRANSPORT OF DUST-BORNE TRACE ELEMENTS FROM SNOWPACK TO SNOWMELT RUNOFF IN THE PROVO RIVER, UTAH. , 2016, , .		0
50	PHOSPHORUS MOBILITY IN LEGACY SEDIMENTS OF SHALLOW, EUTROPHIC UTAH LAKE. , 2018, , .		0
51	CONCENTRATION-DISCHARGE RELATIONSHIPS REVEAL TRENDS IN GEOGENIC CONTAMINANT INPUT TO THE UPPER PROVO RIVER, UTAH, USA. , 2018, , .		0
52	DUST COMPOSITION IN THE URBAN WASATCH FRONT, UTAH, AND COMPARISON TO NEARBY DESERT PLAYAS. , 2018, , .		0
53	HIGH-RESOLUTION 3D IMAGING OF LAKE BONNEVILLE SHORELINE STRATIGRAPHY USING GPR. , 2018, , .		0
54	DEFORMATION IN THE DAMAGE ZONE OF THE HURRICANE FAULT AND THE CONTROL OF THERMAL WATER DISCHARGE INTO THE VIRGIN RIVER, UTAH, AS REVEALED BY HIGH-RESOLUTION SEISMIC SURVEYS. , 2018, , .		0

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55	ANTHROPOGENIC EFFECTS ON EUTROPHICATION OF UTAH LAKE, UTAH SINCE EUROPEAN SETTLEMENT. , 2020, , .		0
56	Geophysical characterization of volcanic layering. Journal of Applied Geophysics, 2021, 195, 104494.	2.1	0
57	Thermal Spring System Plumbing across a Major Normal Fault: Pah Tempe, Utah, USA. Lithosphere, 2022, 2021, .	1.4	0