

Jason C Neff

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

12,117
citations

38742

50
h-index

36028

97
g-index

104
all docs

104
docs citations

104
times ranked

14613
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	3.4	904
2	The Impact of Boreal Forest Fire on Climate Warming. <i>Science</i> , 2006, 314, 1130-1132.	12.6	765
3	Variable effects of nitrogen additions on the stability and turnover of soil carbon. <i>Nature</i> , 2002, 419, 915-917.	27.8	643
4	Dissolved Organic Carbon in Terrestrial Ecosystems: Synthesis and a Model. <i>Ecosystems</i> , 2001, 4, 29-48.	3.4	597
5	Molecular C dynamics downstream: The biochemical decomposition sequence and its impact on soil organic matter structure and function. <i>Science of the Total Environment</i> , 2008, 404, 297-307.	8.0	467
6	Increasing eolian dust deposition in the western United States linked to human activity. <i>Nature Geoscience</i> , 2008, 1, 189-195.	12.9	439
7	Impact of disturbed desert soils on duration of mountain snow cover. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	370
8	Observed 20th century desert dust variability: impact on climate and biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10875-10893.	4.9	355
9	The contemporary physical and chemical flux of aeolian dust: A synthesis of direct measurements of dust deposition. <i>Chemical Geology</i> , 2009, 267, 46-63.	3.3	320
10	Effects of Soil Texture on Belowground Carbon and Nutrient Storage in a Lowland Amazonian Forest Ecosystem. <i>Ecosystems</i> , 2000, 3, 193-209.	3.4	318
11	Potential carbon release from permafrost soils of Northeastern Siberia. <i>Global Change Biology</i> , 2006, 12, 2336-2351.	9.5	307
12	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 99-136.	3.5	293
13	Dissolved Organic Carbon in Alaskan Boreal Forest: Sources, Chemical Characteristics, and Biodegradability. <i>Ecosystems</i> , 2007, 10, 1323-1340.	3.4	293
14	The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. <i>Environmental Microbiology</i> , 2008, 10, 3093-3105.	3.8	252
15	The ecology of dust. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 423-430.	4.0	248
16	Breaks in the cycle: dissolved organic nitrogen in terrestrial ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 205-211.	4.0	239
17	MULTI-DECADAL IMPACTS OF GRAZING ON SOIL PHYSICAL AND BIOGEOCHEMICAL PROPERTIES IN SOUTHEAST UTAH. , 2005, 15, 87-95.		225
18	The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2793-2802.	2.6	222

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19	Seasonal changes in the age and structure of dissolved organic carbon in Siberian rivers and streams. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	216
20	Composition, Dynamics, and Fate of Leached Dissolved Organic Matter in Terrestrial Ecosystems: Results from a Decomposition Experiment. <i>Ecosystems</i> , 2004, 7, 175.	3.4	211
21	Vegetation and climate controls on potential CO ₂ , DOC and DON production in northern latitude soils. <i>Global Change Biology</i> , 2002, 8, 872-884.	9.5	196
22	NET ECOSYSTEM PRODUCTION: A COMPREHENSIVE MEASURE OF NET CARBON ACCUMULATION BY ECOSYSTEMS. , 2002, 12, 937-947.		173
23	Does adding microbial mechanisms of decomposition improve soil organic matter models? A comparison of four models using data from a pulsed rewetting experiment. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1923-1934.	8.8	166
24	Effects of grazing on ecosystem structure and function of alpine grasslands in Qinghaiâ€“Tibetan Plateau: a synthesis. <i>Ecosphere</i> , 2017, 8, e01656.	2.2	163
25	Fire effects on soil organic matter content, composition, and nutrients in boreal interior Alaska. <i>Canadian Journal of Forest Research</i> , 2005, 35, 2178-2187.	1.7	155
26	Africa and the global carbon cycle. <i>Carbon Balance and Management</i> , 2007, 2, 3.	3.2	144
27	Snowmelt dominance of dissolved organic carbon in high-latitude watersheds: Implications for characterization and flux of river DOC. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	135
28	Effects of wildfire and permafrost on soil organic matter and soil climate in interior Alaska. <i>Global Change Biology</i> , 2006, 12, 2391-2403.	9.5	123
29	Is atmospheric phosphorus pollution altering global alpine Lake stoichiometry?. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1369-1383.	4.9	122
30	Nitrogen deposition effects on soil organic matter chemistry are linked to variation in enzymes, ecosystems and size fractions. <i>Biogeochemistry</i> , 2008, 91, 37-49.	3.5	116
31	Estimates of Aboveground Biomass from Texture Analysis of Landsat Imagery. <i>Remote Sensing</i> , 2014, 6, 6407-6422.	4.0	116
32	Estimates of CO ₂ from fires in the United States: implications for carbon management. <i>Carbon Balance and Management</i> , 2007, 2, 10.	3.2	110
33	Title is missing!. <i>Biogeochemistry</i> , 2000, 51, 283-302.	3.5	106
34	Carbon structure and enzyme activities in alpine and forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2701-2711.	8.8	106
35	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. <i>Current Climate Change Reports</i> , 2017, 3, 16-31.	8.6	103
36	Decomposition of soil organic matter from boreal black spruce forest: environmental and chemical controls. <i>Biogeochemistry</i> , 2008, 87, 29-47.	3.5	102

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37	Effects of permafrost melting on CO ₂ and CH ₄ exchange of a poorly drained black spruce lowland. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	97
38	Increasing Ca ²⁺ deposition in the western US: The role of mineral aerosols. <i>Aeolian Research</i> , 2013, 10, 77-87.	2.7	97
39	Uncertainties in the temperature sensitivity of decomposition in tropical and subtropical ecosystems: Implications for models. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1137-1151.	4.9	95
40	Contemporary geochemical composition and flux of aeolian dust to the San Juan Mountains, Colorado, United States. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	78
41	Chemistry of burning the forest floor during the FROSTFIRE experimental burn, interior Alaska, 1999. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	77
42	Physical and biogeochemical controls over terrestrial ecosystem responses to nitrogen deposition. <i>Biogeochemistry</i> , 2001, 54, 1-39.	3.5	76
43	Atmospheric dust in modern soil on aeolian sandstone, Colorado Plateau (USA): Variation with landscape position and contribution to potential plant nutrients. <i>Geoderma</i> , 2006, 130, 108-123.	5.1	71
44	Regional aboveground live carbon losses due to drought-induced tree dieback in piñon-juniper ecosystems. <i>Remote Sensing of Environment</i> , 2010, 114, 1471-1479.	11.0	69
45	Interactive Effects of Fire, Soil Climate, and Moss on CO ₂ Fluxes in Black Spruce Ecosystems of Interior Alaska. <i>Ecosystems</i> , 2009, 12, 57-72.	3.4	64
46	Soil Respiration in the Cold Desert Environment of the Colorado Plateau (USA): Abiotic Regulators and Thresholds. <i>Biogeochemistry</i> , 2006, 78, 247-265.	3.5	63
47	Boreal soil carbon dynamics under a changing climate: A model inversion approach. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	59
48	Dust mediated transfer of phosphorus to alpine lake ecosystems of the Wind River Range, Wyoming, USA. <i>Biogeochemistry</i> , 2014, 120, 259-278.	3.5	58
49	Fluxes of nitrous oxide and methane from nitrogen-amended soils in a Colorado alpine ecosystem. <i>Biogeochemistry</i> , 1994, 27, 23.	3.5	57
50	Plant Response to Nutrient Availability Across Variable Bedrock Geologies. <i>Ecosystems</i> , 2009, 12, 101-113.	3.4	57
51	Geomorphic control of landscape carbon accumulation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	54
52	Modeling physical and biogeochemical controls over carbon accumulation in a boreal forest soil. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	53
53	Spatial and temporal patterns of dust emissions (2004–2012) in semi-arid landscapes, southeastern Utah, USA. <i>Aeolian Research</i> , 2014, 15, 31-43.	2.7	51
54	Controls of Bedrock Geochemistry on Soil and Plant Nutrients in Southeastern Utah. <i>Ecosystems</i> , 2006, 9, 879-893.	3.4	50

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55	Biogeochemical response of alpine lakes to a recent increase in dust deposition in the Southwestern, US. <i>Biogeosciences</i> , 2011, 8, 2689-2706.	3.3	49
56	Multiscale analysis of tree cover and aboveground carbon stocks in pinyonâ€“juniper woodlands. <i>Ecological Applications</i> , 2009, 19, 668-681.	3.8	47
57	Mid-21st century projections in temperature extremes in the southern Colorado Rocky Mountains from regional climate models. <i>Climate Dynamics</i> , 2012, 39, 1823-1840.	3.8	45
58	Aeolian controls of soil geochemistry and weathering fluxes in high-elevation ecosystems of the Rocky Mountains, Colorado. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 107, 27-46.	3.9	45
59	Vegetation Effects on Soil Organic Matter Chemistry of Aggregate Fractions in a Hawaiian Forest. <i>Ecosystems</i> , 2011, 14, 382-397.	3.4	44
60	The role of dust storms in total atmospheric particle concentrations at two sites in the western U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,201.	3.3	44
61	Ecological changes in two contrasting lakes associated with human activity and dust transport in western Wyoming. <i>Limnology and Oceanography</i> , 2015, 60, 678-695.	3.1	44
62	Mobile phone use is associated with higher smallholder agricultural productivity in Tanzania, East Africa. <i>PLoS ONE</i> , 2020, 15, e0237337.	2.5	40
63	Late Quaternary eolian dust in surficial deposits of a Colorado Plateau grassland: Controls on distribution and ecologic effects. <i>Catena</i> , 2006, 66, 251-266.	5.0	39
64	Water soluble organic aerosols in the Colorado Rocky Mountains, USA: composition, sources and optical properties. <i>Scientific Reports</i> , 2016, 6, 39339.	3.3	39
65	Soil carbon storage responses to expanding pinyonâ€“juniper populations in southern Utah. <i>Ecological Applications</i> , 2009, 19, 1405-1416.	3.8	37
66	The accretion of aeolian dust in soils of the San Juan Mountains, Colorado, USA. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
67	Influence of Livestock Grazing and Climate on Pinyon Pine (<i>Pinus edulis</i>) Dynamics. <i>Rangeland Ecology and Management</i> , 2009, 62, 531-539.	2.3	35
68	Biogeochemical and ecological impacts of livestock grazing in semi-arid southeastern Utah, USA. <i>Journal of Arid Environments</i> , 2008, 72, 777-791.	2.4	33
69	The landâ€“potential knowledge system (landpks): mobile apps and collaboration for optimizing climate change investments. <i>Ecosystem Health and Sustainability</i> , 2016, 2, .	3.1	32
70	Separating the influences of diagenesis, productivity and anthropogenic nitrogen deposition on sedimentary $\delta^{15}N$ variations. <i>Organic Geochemistry</i> , 2014, 75, 140-150.	1.8	28
71	The role of soil drainage class in carbon dioxide exchange and decomposition in boreal black spruce (<i>Picea mariana</i>) forest stands. <i>Canadian Journal of Forest Research</i> , 2010, 40, 2123-2134.	1.7	27
72	Compositional trends in aeolian dust along a transect across the southwestern United States. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	26

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73	Transport of oxygen in soil pore-water systems: implications for modeling emissions of carbon dioxide and methane from peatlands. <i>Biogeochemistry</i> , 2014, 121, 455-470.	3.5	26
74	Concentrations of mineral aerosol from desert to plains across the central Rocky Mountains, western United States. <i>Aeolian Research</i> , 2016, 23, 21-35.	2.7	25
75	Modeling pulsed soil respiration in an African savanna ecosystem. <i>Agricultural and Forest Meteorology</i> , 2015, 200, 282-292.	4.8	23
76	Variation in Soil Carbon Dioxide Efflux at Two Spatial Scales in a Topographically Complex Boreal Forest. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 457-468.	1.1	22
77	Water and heat transport in boreal soils: Implications for soil response to climate change. <i>Science of the Total Environment</i> , 2011, 409, 1836-1842.	8.0	21
78	Modeling the Production, Decomposition, and Transport of Dissolved Organic Carbon in Boreal Soils. <i>Soil Science</i> , 2010, 175, 223-232.	0.9	20
79	Optimizing Available Network Resources to Address Questions in Environmental Biogeochemistry. <i>BioScience</i> , 2016, 66, 317-326.	4.9	20
80	Species, Climate and Landscape Physiography Drive Variable Growth Trends in Subalpine Forests. <i>Ecosystems</i> , 2018, 21, 125-140.	3.4	20
81	Evidence for accelerated weathering and sulfate export in high alpine environments. <i>Environmental Research Letters</i> , 2019, 14, 124092.	5.2	20
82	Chemical and textural controls on phosphorus mobility in drylands of southeastern Utah. <i>Biogeochemistry</i> , 2010, 100, 105-120.	3.5	18
83	Atmospheric nutrient deposition to the west coast of South Africa. <i>Atmospheric Environment</i> , 2013, 81, 625-632.	4.1	16
84	Increased Dust Deposition in New Zealand Related to Twentieth Century Australian Land Use. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1181-1193.	3.0	16
85	Prioritizing land for investments based on short- and long-term land potential and degradation risk: A strategic approach. <i>Environmental Science and Policy</i> , 2019, 96, 52-58.	4.9	16
86	Using a Soil Chronosequence to Identify Soil Fractions for Understanding and Modeling Soil Carbon Dynamics in New Zealand. <i>Radiocarbon</i> , 2007, 49, 1093-1102.	1.8	15
87	A Comparison of Approaches to Regional Land-Use Capability Analysis for Agricultural Land-Planning. <i>Land</i> , 2021, 10, 458.	2.9	14
88	Reconciling carbon cycle processes from ecosystem to global scales. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 57-65.	4.0	12
89	Twentieth century carbon stock changes related to Pinon-Juniper expansion into a black sagebrush community. <i>Carbon Balance and Management</i> , 2013, 8, 8.	3.2	11
90	Model-based analysis of environmental controls over ecosystem primary production in an alpine tundra dry meadow. <i>Biogeochemistry</i> , 2016, 128, 35-49.	3.5	11

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91	The Contribution of Occult Precipitation to Nutrient Deposition on the West Coast of South Africa. PLoS ONE, 2015, 10, e0126225.	2.5	9
92	The Hidden Costs of Land Degradation in US Maize Agriculture. Earth's Future, 2021, 9, e2020EF001641.	6.3	9
93	Long-term Trends in Acid Precipitation and Watershed Elemental Export From an Alpine Catchment of the Colorado Rocky Mountains, USA. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005683.	3.0	7
94	Short and long-term carbon balance of bioenergy electricity production fueled by forest treatments. Carbon Balance and Management, 2014, 9, 6.	3.2	6
95	Development of an EPIC parallel computing framework to facilitate regional/global gridded crop modeling with multiple scenarios: A case study of the United States. Computers and Electronics in Agriculture, 2019, 158, 189-200.	7.7	6
96	What controls plant nutrient use in high elevation ecosystems?. Oecologia, 2013, 173, 1551-1561.	2.0	4
97	Evaluation of Sediment Trapping Efficiency of Vegetative Filter Strips Using Machine Learning Models. Sustainability, 2019, 11, 7212.	3.2	4
98	Leaf temperatures mediate alpine plant communities' response to a simulated extended summer. Ecology and Evolution, 2019, 9, 1227-1243.	1.9	3
99	Managing Carbon on Federal Public Lands: Opportunities and Challenges in Southwestern Colorado. Environmental Management, 2016, 58, 283-296.	2.7	1
100	Title is missing!. , 2020, 15, e0237337.		0
101	Title is missing!. , 2020, 15, e0237337.		0
102	Title is missing!. , 2020, 15, e0237337.		0
103	Title is missing!. , 2020, 15, e0237337.		0