

# John L Campbell

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

5,745  
citations

34  
h-index

75  
g-index

101  
ext. papers

6,540  
ext. citations

5.5  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
99	A meta-analysis of the response of soil respiration, net nitrogen mineralization, and aboveground plant growth to experimental ecosystem warming. <i>Oecologia</i> , <b>2001</b> , 126, 543-562	2.9	1609
98	Spatial and temporal variations in DOM composition in ecosystems: The importance of long-term monitoring of optical properties. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		316
97	Global charcoal mobilization from soils via dissolution and riverine transport to the oceans. <i>Science</i> , <b>2013</b> , 340, 345-7	33.3	310
96	The Biogeochemistry of Carbon at Hubbard Brook. <i>Biogeochemistry</i> , <b>2005</b> , 75, 109-176	3.8	214
95	Winter in northeastern North America: a critical period for ecological processes. <i>Frontiers in Ecology and the Environment</i> , <b>2005</b> , 3, 314-322	5.5	204
94	Dissolved organic nitrogen budgets for upland, forested ecosystems in New England. <i>Biogeochemistry</i> , <b>2000</b> , 49, 123-142	3.8	161
93	Regional Assessment of N Saturation using Foliar and Root (varvec $\delta^{15}\text{N}$ ). <i>Biogeochemistry</i> , <b>2006</b> , 80, 143-171	3.8	156
92	Ecosystem Processes and Human Influences Regulate Streamflow Response to Climate Change at Long-Term Ecological Research Sites. <i>BioScience</i> , <b>2012</b> , 62, 390-404	5.7	126
91	Consequences of climate change for biogeochemical cycling in forests of northeastern North America This article is one of a selection of papers from NE Forests 2100: A Synthesis of Climate Change Impacts on Forests of the Northeastern US and Eastern Canada.. <i>Canadian Journal of Forest Research</i> , <b>2009</b> , 39, 823-838	1.9	126
90	Input-Output Budgets of Inorganic Nitrogen for 24 Forest Watersheds in the Northeastern United States: A Review. <i>Water, Air, and Soil Pollution</i> , <b>2004</b> , 151, 373-396	2.6	116
89	Changing forest water yields in response to climate warming: results from long-term experimental watershed sites across North America. <i>Global Change Biology</i> , <b>2014</b> , 20, 3191-208	11.4	114
88	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. <i>BioScience</i> , <b>2012</b> , 62, 1056-1066	5.7	101
87	Conifer regeneration in stand-replacement portions of a large mixed-severity wildfire in the Klamath-Biskiyou Mountains. <i>Canadian Journal of Forest Research</i> , <b>2009</b> , 39, 823-838	1.9	94
86	The Disappearing Cryosphere: Impacts and Ecosystem Responses to Rapid Cryosphere Loss. <i>BioScience</i> , <b>2012</b> , 62, 405-415	5.7	86
85	Influence of experimental snow removal on root and canopy physiology of sugar maple trees in a northern hardwood forest. <i>Oecologia</i> , <b>2013</b> , 171, 261-9	2.9	84
84	Hydrometeorological database for Hubbard Brook Experimental Forest: 1955-2000 <b>2003</b> ,		80
83	Streamflow responses to past and projected future changes in climate at the Hubbard Brook Experimental Forest, New Hampshire, United States. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	77

82	Quantity is Nothing without Quality: Automated QA/QC for Streaming Environmental Sensor Data. <i>BioScience</i> , <b>2013</b> , 63, 574-585	5.7	75
81	Increased nitrogen leaching following soil freezing is due to decreased root uptake in a northern hardwood forest. <i>Global Change Biology</i> , <b>2014</b> , 20, 2663-73	11.4	73
80	Runoff Curve Numbers for 10 Small Forested Watersheds in the Mountains of the Eastern United States. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2012</b> , 17, 1188-1198	1.8	73
79	Linking water age and solute dynamics in streamflow at the Hubbard Brook Experimental Forest, NH, USA. <i>Water Resources Research</i> , <b>2015</b> , 51, 9256-9272	5.4	60
78	Contrasting stream water NO <sub>3</sub> <sup>-</sup> and Ca <sup>2+</sup> in two nearly adjacent catchments: the role of soil Ca and forest vegetation. <i>Global Change Biology</i> , <b>2006</b> , 12, 364-381	11.4	56
77	Winter climate change affects growing-season soil microbial biomass and activity in northern hardwood forests. <i>Global Change Biology</i> , <b>2014</b> , 20, 3568-77	11.4	55
76	Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. <i>BioScience</i> , <b>2012</b> , 62, 575-584	5.7	52
75	Nitrogen oligotrophication in northern hardwood forests. <i>Biogeochemistry</i> , <b>2018</b> , 141, 523-539	3.8	52
74	Supply-side controls on soil respiration among Oregon forests. <i>Global Change Biology</i> , <b>2004</b> , 10, 1857-1869	6.4	51
73	Ecohydrological implications of drought for forests in the United States. <i>Forest Ecology and Management</i> , <b>2016</b> , 380, 335-345	3.9	50
72	Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. <i>Ecosphere</i> , <b>2016</b> , 7, e01251	3.1	47
71	Isotopic assessment of NO <sub>3</sub> <sup>-</sup> and SO <sub>4</sub> <sup>2-</sup> mobility during winter in two adjacent watersheds in the Adirondack Mountains, New York. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		46
70	Trends in stream nitrogen concentrations for forested reference catchments across the USA. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 014039	6.2	43
69	Past and projected future changes in snowpack and soil frost at the Hubbard Brook Experimental Forest, New Hampshire, USA. <i>Hydrological Processes</i> , <b>2010</b> , 24, n/a-n/a	3.3	43
68	Contributing factors for drought in United States forest ecosystems under projected future climates and their uncertainty. <i>Forest Ecology and Management</i> , <b>2016</b> , 380, 299-308	3.9	40
67	Estimating uncertainty in the volume and carbon storage of downed coarse woody debris. <i>Ecological Applications</i> , <b>2019</b> , 29, e01844	4.9	36
66	Modeling potential hydrochemical responses to climate change and increasing CO <sub>2</sub> at the Hubbard Brook Experimental Forest using a dynamic biogeochemical model (PnET-BGC). <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	35
65	Impact of a reduced winter snowpack on litter arthropod abundance and diversity in a northern hardwood forest ecosystem. <i>Biology and Fertility of Soils</i> , <b>2012</b> , 48, 413-424	6.1	34

64	Decreased water flowing from a forest amended with calcium silicate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5999-6003	11.5	34
63	A Cross-Site Comparison of Factors Influencing Soil Nitrification Rates in Northeastern USA Forested Watersheds. <i>Ecosystems</i> , <b>2009</b> , 12, 158-178	3.9	33
62	The downed and dead wood inventory of forests in the United States. <i>Scientific Data</i> , <b>2019</b> , 6, 180303	8.2	33
61	Northern forest winters have lost cold, snowy conditions that are important for ecosystems and human communities. <i>Ecological Applications</i> , <b>2019</b> , 29, e01974	4.9	32
60	Recovery from chronic and snowmelt acidification: Long-term trends in stream and soil water chemistry at the Hubbard Brook Experimental Forest, New Hampshire, USA. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 2360-2374	3.7	29
59	Differential sensitivity to climate change of C and N cycling processes across soil horizons in a northern hardwood forest. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 77-84	7.5	28
58	Long-term trends from ecosystem research at the Hubbard Brook Experimental Forest <b>2007</b> ,		28
57	Nitrate and dissolved organic carbon mobilization in response to soil freezing variability. <i>Biogeochemistry</i> , <b>2016</b> , 131, 35-47	3.8	26
56	Soil Freezing Effects on Sources of Nitrogen and Carbon Leached During Snowmelt. <i>Soil Science Society of America Journal</i> , <b>2014</b> , 78, 297-308	2.5	25
55	Severe soil frost reduces losses of carbon and nitrogen from the forest floor during simulated snowmelt: A laboratory experiment. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 44, 65-74	7.5	25
54	Quantifying Uncertainty in Forest Nutrient Budgets. <i>Journal of Forestry</i> , <b>2012</b> , 110, 448-456	1.2	25
53	A novel ice storm manipulation experiment in a northern hardwood forest. <i>Canadian Journal of Forest Research</i> , <b>2012</b> , 42, 1810-1818	1.9	24
52	Evaluation of forest disturbance legacy effects on dissolved organic matter characteristics in streams at the Hubbard Brook Experimental Forest, New Hampshire. <i>Aquatic Sciences</i> , <b>2014</b> , 76, 611-622	2.5	23
51	Mobility of Nitrogen-15-Labeled Nitrate and Sulfur-34-Labeled Sulfate during Snowmelt. <i>Soil Science Society of America Journal</i> , <b>2007</b> , 71, 1934-1944	2.5	23
50	The effect of seasonal drying on sulphate dynamics in streams across southeastern Canada and the northeastern USA. <i>Biogeochemistry</i> , <b>2012</b> , 111, 393-409	3.8	22
49	Arctic Vortex changes alter the sources and isotopic values of precipitation in northeastern US. <i>Scientific Reports</i> , <b>2016</b> , 6, 22647	4.9	21
48	Forest wildfire, fuel reduction treatments, and landscape carbon stocks: a sensitivity analysis. <i>Journal of Environmental Management</i> , <b>2013</b> , 121, 124-32	7.9	21
47	Modeled ecohydrological responses to climate change at seven small watersheds in the northeastern United States. <i>Global Change Biology</i> , <b>2017</b> , 23, 840-856	11.4	21

46	Sources of uncertainty in estimating stream solute export from headwater catchments at three sites. <i>Hydrological Processes</i> , <b>2015</b> , 29, 1793-1805	3.3	21
45	The effects of climate downscaling technique and observational data set on modeled ecological responses. <i>Ecological Applications</i> , <b>2016</b> , 26, 1321-1337	4.9	21
44	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3620-3633	10.3	19
43	Spatial patterns of soil nitrification and nitrate export from forested headwaters in the northeastern United States. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		18
42	Systematic variation in evapotranspiration trends and drivers across the Northeastern United States. <i>Hydrological Processes</i> , <b>2018</b> , 32, 3547-3560	3.3	18
41	Winter Weather Whiplash: Impacts of Meteorological Events Misaligned With Natural and Human Systems in Seasonally Snow-Covered Regions. <i>Earths Future</i> , <b>2019</b> , 7, 1434-1450	7.9	17
40	Analysis of Nitrogen Dynamics in the Lye Brook Wilderness Area, Vermont, USA. <i>Water, Air, and Soil Pollution</i> , <b>2000</b> , 122, 63-75	2.6	15
39	Guidelines and considerations for designing field experiments simulating precipitation extremes in forest ecosystems. <i>Methods in Ecology and Evolution</i> , <b>2018</b> , 9, 2310-2325	7.7	15
38	Projections of water, carbon, and nitrogen dynamics under future climate change in an old-growth Douglas-fir forest in the western Cascade Range using a biogeochemical model. <i>Science of the Total Environment</i> , <b>2019</b> , 656, 608-624	10.2	14
37	Stable water isotopes suggest sub-canopy water recycling in a northern forested catchment. <i>Hydrological Processes</i> , <b>2015</b> , 29, 5193-5202	3.3	14
36	The promise and peril of intensive-site-based ecological research: insights from the Hubbard Brook ecosystem study. <i>Ecology</i> , <b>2015</b> , 96, 885-901	4.6	13
35	The application of an integrated biogeochemical model to simulate dynamics of vegetation, hydrology and nutrients in soil and streamwater following a whole-tree harvest of a northern hardwood forest. <i>Science of the Total Environment</i> , <b>2018</b> , 645, 244-256	10.2	13
34	Watershed nitrogen and mercury geochemical fluxes integrate landscape factors in long-term research watersheds at Acadia National Park, Maine, USA. <i>Environmental Monitoring and Assessment</i> , <b>2007</b> , 126, 9-25	3.1	13
33	Isotopic evidence for determining the sources of dissolved organic sulfur in a forested catchment. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 11259-67	10.3	12
32	Current Practices in Reporting Uncertainty in Ecosystem Ecology. <i>Ecosystems</i> , <b>2018</b> , 21, 971-981	3.9	10
31	Improving uncertainty in forest carbon accounting for REDD+ mitigation efforts. <i>Environmental Research Letters</i> ,	6.2	10
30	Give and Take: A Watershed Acid Rain Mitigation Experiment Increases Baseflow Nitrogen Retention but Increases Stormflow Nitrogen Export. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13155-13165	10.3	10
29	Are Northeastern U.S. forests vulnerable to extreme drought?. <i>Ecological Processes</i> , <b>2017</b> , 6,	3.6	9

28	Uncertainty in the net hydrologic flux of calcium in a paired-watershed harvesting study. <i>Ecosphere</i> , <b>2016</b> , 7, e01299	3.1	9
27	Regional meteorological drivers and long term trends of winter-spring nitrate dynamics across watersheds in northeastern North America. <i>Biogeochemistry</i> , <b>2016</b> , 130, 247-265	3.8	9
26	The Long-Term Ecological Research community metadata standardisation project: a progress report. <i>International Journal of Metadata, Semantics and Ontologies</i> , <b>2009</b> , 4, 141	0.6	8
25	Effects of an experimental ice storm on forest canopy structure. <i>Canadian Journal of Forest Research</i> , <b>2020</b> , 50, 136-145	1.9	8
24	Carbon response to changing winter conditions in northern regions: current understanding and emerging research needs. <i>Environmental Reviews</i> , <b>2019</b> , 27, 545-566	4.5	7
23	Curve Numbers for Nine Mountainous Eastern United States Watersheds: Seasonal Variation and Forest Cutting. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2012</b> , 17, 1199-1203	1.8	7
22	Projections of water, carbon, and nitrogen dynamics under future climate change in an alpine tundra ecosystem in the southern Rocky Mountains using a biogeochemical model. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 1451-1464	10.2	7
21	Measuring soil frost depth in forest ecosystems with ground penetrating radar. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 192-193, 121-131	5.8	6
20	Winter Climate Change Influences on Soil Faunal Distribution and Abundance: Implications for Decomposition in the Northern Forest. <i>Northeastern Naturalist</i> , <b>2017</b> , 24, B209-B234	0.5	6
19	Forest influences on snow accumulation and snowmelt at the Hubbard Brook Experimental Forest, New Hampshire, USA. <i>Hydrological Processes</i> , <b>2012</b> , 26, 2524-2534	3.3	4
18	Patterns of streamwater acidity in Lye Brook Wilderness, Vermont, USA. <i>Environmental Management</i> , <b>2002</b> , 30, 234-48	3.1	4
17	Comparisons with Results from the Hubbard Brook Experimental Forest in the Northern Appalachians <b>2014</b> , 213-228		4
16	Ecosystem Nitrogen Response to a Simulated Ice Storm in a Northern Hardwood Forest. <i>Ecosystems</i> , <b>2020</b> , 23, 1186-1205	3.9	4
15	Predicting high-frequency variation in stream solute concentrations with water quality sensors and machine learning. <i>Hydrological Processes</i> , <b>2021</b> , 35,	3.3	4
14	Origins of stream salinization in an upland New England watershed. <i>Environmental Monitoring and Assessment</i> , <b>2018</b> , 190, 523	3.1	4
13	Experimental approach and initial forest response to a simulated ice storm experiment in a northern hardwood forest. <i>PLoS ONE</i> , <b>2020</b> , 15, e0239619	3.7	3
12	Quantifying uncertainty in annual runoff due to missing data. <i>PeerJ</i> , <b>2020</b> , 8, e9531	3.1	3
11	Watershed studies at the Hubbard Brook Experimental Forest: Building on a long legacy of research with new approaches and sources of data. <i>Hydrological Processes</i> , <b>2021</b> , 35,	3.3	3

10	Downsizing a long-term precipitation network: Using a quantitative approach to inform difficult decisions. <i>PLoS ONE</i> , <b>2018</b> , 13, e0195966	3.7	3
9	Soil warming and winter snowpacks: Implications for northern forest ecosystem functioning <b>2019</b> , 245-278		2
8	Snowpack affects soil microclimate throughout the year. <i>Climatic Change</i> , <b>2020</b> , 163, 705-722	4.5	2
7	Simulation of the effects of forest harvesting under changing climate to inform long-term sustainable forest management using a biogeochemical model. <i>Science of the Total Environment</i> , <b>2021</b> , 767, 144881	10.2	2
6	Estimating uncertainties in watershed studies. <i>Eos</i> , <b>2011</b> , 92, 220-220	1.5	1
5	Simulating Impacts of Ice Storms on Forest Ecosystems. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	1
4	A catchment water balance assessment of an abrupt shift in evapotranspiration at the Hubbard Brook Experimental Forest, New Hampshire, USA. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14300	3.3	1
3	Reply to Smith and Shortle: Lacking evidence of hydraulic efficiency changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E3740	11.5	
2	Response of biomass, hydrology and biogeochemistry to alternative approaches of cutting a northern forest: model comparisons. <i>Biogeochemistry</i> , 1	3.8	
1	A Comparison of Low-Cost Collector Configurations for Quantifying Ice Accretion. <i>Journal of Applied Meteorology and Climatology</i> , <b>2020</b> , 59, 1429-1442	2.7	