Matthew A Vadeboncoeur

List of Publications by Year
in descending order

60 papers	4,004 citations	159585 30 h-index	133252 59 g-index
61 all docs	61 docs citations	61 times ranked	7617 citing authors

#	ARTICLE	IF	CITATIONS
1	Pathogen-induced defoliation impacts on transpiration, leaf gas exchange, and non-structural carbohydrate allocation in eastern white pine (Pinus strobus). Trees - Structure and Function, 2021, 35, 357-373.	1.9	9
2	Sensitivity and threshold dynamics of<i>Pinus strobus</i>and<i>Quercus</i>spp. in response to experimental and naturally occurring severe droughts. Tree Physiology, 2021, 41, 1819-1835.	3.1	10
3	Carbon and nitrogen acquisition strategies by wood decay fungi influence their isotopic signatures in Picea abies forests. Fungal Ecology, 2021, 52, 101069.	1.6	2
4	Accounting for Carbon Flux to Mycorrhizal Fungi May Resolve Discrepancies in Forest Carbon Budgets. Ecosystems, 2020, 23, 715-729.	3.4	17
5	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
6	Assessing Temperate Forest Growth and Climate Sensitivity in Response to a Longâ€Term Wholeâ€Watershed Acidification Experiment. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005560.	3.0	5
7	Correcting tree-ring Î´13C time series for tree-size effects in eight temperate tree species. Tree Physiology, 2020, 40, 333-349.	3.1	17
8	Influence of forest-to-silvopasture conversion and drought on components of evapotranspiration. Agriculture, Ecosystems and Environment, 2020, 295, 106916.	5.3	16
9	Hydrological niche segregation defines forest structure and drought tolerance strategies in a seasonal Amazon forest. Journal of Ecology, 2019, 107, 318-333.	4.0	133
10	Intensified vegetation water use under acid deposition. Science Advances, 2019, 5, eaav5168.	10.3	26
11	Litter quality and site characteristics interact to affect the response of priming effect to temperature in subtropical forests. Functional Ecology, 2019, 33, 2226-2238.	3.6	40
12	Root litter inputs exert greater influence over soil C than does aboveground litter in a subtropical natural forest. Plant and Soil, 2019, 444, 489-499.	3.7	35
13	Losses of mineral soil carbon largely offset biomass accumulation 15Âyears after whole-tree harvest in a northern hardwood forest. Biogeochemistry, 2019, 144, 1-14.	3.5	14
14	Understory ferns alter soil carbon chemistry and increase carbon storage during reforestation with native pine on previously degraded sites. Soil Biology and Biochemistry, 2019, 132, 80-92.	8.8	22
15	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	8.0	177
16	Resistance and resilience of socialâ€“ecological systems to recurrent typhoon disturbance on a subtropical island: Taiwan. Ecosphere, 2018, 9, e02071.	2.2	16
17	Carbon fluxes and interannual drivers in a temperate forest ecosystem assessed through comparison of top-down and bottom-up approaches. Agricultural and Forest Meteorology, 2018, 256-257, 420-430.	4.8	31
18	Response of mineral soil carbon storage to harvest residue retention depends on soil texture: A meta-analysis. Forest Ecology and Management, 2018, 408, 9-15.	3.2	43

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19	Temporal changes in soil Câ€Nâ€P stoichiometry over the past 60Âyears across subtropical China. Global Change Biology, 2018, 24, 1308-1320.	9.5	93
20	Phosphorus limitation of aboveground production in northern hardwood forests. Ecology, 2018, 99, 438-449.	3.2	65
21	Simulated leaf litter addition causes opposite priming effects on natural forest and plantation soils. Biology and Fertility of Soils, 2018, 54, 925-934.	4.3	36
22	Guidelines and considerations for designing field experiments simulating precipitation extremes in forest ecosystems. Methods in Ecology and Evolution, 2018, 9, 2310-2325.	5.2	24
23	Systematic variation in evapotranspiration trends and drivers across the Northeastern United States. Hydrological Processes, 2018, 32, 3547-3560.	2.6	28
24	Impacts of White Pine Needle Damage on seasonal litterfall dynamics and wood growth of eastern white pine (Pinus strobus) in northern New England. Forest Ecology and Management, 2018, 423, 27-36.	3.2	12
25	Increased litter in subtropical forests boosts soil respiration in natural forests but not plantations of Castanopsis carlesii. Plant and Soil, 2017, 418, 141-151.	3.7	39
26	Are Northeastern U.S. forests vulnerable to extreme drought?. Ecological Processes, 2017, 6, .	3.9	15
27	Elemental and isotopic perspectives on the impact of arbuscular mycorrhizal and ectomycorrhizal fungi on mineral weathering across imposed geologic gradients. Chemical Geology, 2016, 445, 164-171.	3.3	10
28	Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. Ecosphere, 2016, 7, e01251.	2.2	67
29	Response of<i>Quercus velutina</i>growth and water use efficiency to climate variability and nitrogen fertilization in a temperate deciduous forest in the northeastern USA. Tree Physiology, 2016, 36, 428-443.	3.1	28
30	Scaling from single-point sap velocity measurements to stand transpiration in a multispecies deciduous forest: uncertainty sources, stand structure effect, and future scenarios. Canadian Journal of Forest Research, 2015, 45, 1489-1497.	1.7	39
31	Understorey plant community and light availability in conifer plantations and natural hardwood forests in Taiwan. Applied Vegetation Science, 2015, 18, 591-602.	1.9	24
32	The promise and peril of intensiveâ€siteâ€based ecological research: insights from the Hubbard Brook ecosystem study. Ecology, 2015, 96, 885-901.	3.2	19
33	BAAD: a Biomass And Allometry Database for woody plants. Ecology, 2015, 96, 1445-1445.	3.2	122
34	Soil nitrogen affects phosphorus recycling: foliar resorption and plantâ€“soil feedbacks in a northern hardwood forest. Ecology, 2015, 96, 2488-2498.	3.2	88
35	Mycorrhizal roots in a temperate forest take up organic nitrogen from 13C- and 15N-labeled organic matter. Plant and Soil, 2015, 397, 303-315.	3.7	7
36	Rates of sustainable forest harvest depend on rotation length and weathering of soil minerals. Forest Ecology and Management, 2014, 318, 194-205.	3.2	63

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37	Relating vegetation dynamics to temperature and precipitation at monthly and annual timescales in Taiwan using MODIS vegetation indices. International Journal of Remote Sensing, 2014, 35, 598-620.	2.9	90
38	Seasonal, not annual precipitation drives community productivity across ecosystems. Oikos, 2013, 122, 727-738.	2.7	99
39	Climate change at the ecosystem scale: a 50-year record in New Hampshire. Climatic Change, 2013, 116, 457-477.	3.6	42
40	From Missing Source to Missing Sink: Long-Term Changes in the Nitrogen Budget of a Northern Hardwood Forest. Environmental Science & Technology, 2013, 47, 11440-11448.	10.0	76
41	Recovery from disturbance requires resynchronization of ecosystem nutrient cycles. Ecological Applications, 2013, 23, 621-642.	3.8	51
42	Local-Scale Carbon Budgets and Mitigation Opportunities for the Northeastern United States. BioScience, 2012, 62, 23-38.	4.9	14
43	The Quantitative Soil Pit Method for Measuring Belowground Carbon and Nitrogen Stocks. Soil Science Society of America Journal, 2012, 76, 2241-2255.	2.2	33
44	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. Soil Science Society of America Journal, 2012, 76, 1707-1718.	2.2	11
45	A comparison of presettlement and modern forest composition along an elevation gradient in central New Hampshire. Canadian Journal of Forest Research, 2012, 42, 190-202.	1.7	14
46	Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. BioScience, 2012, 62, 1056-1066.	4.9	117
47	Assessing growing season beginning and end dates and their relation to climate in Taiwan using satellite data. International Journal of Remote Sensing, 2011, 32, 5035-5058.	2.9	28
48	Allometric equations for young northern hardwoods: the importance of age-specific equations for estimating aboveground biomass. Canadian Journal of Forest Research, 2011, 41, 881-891.	1.7	59
49	Typhoon Disturbance and Forest Dynamics: Lessons from a Northwest Pacific Subtropical Forest. Ecosystems, 2011, 14, 127-143.	3.4	124
50	Modeled Nitrogen Loading to Narragansett Bay: 1850 to 2015. Estuaries and Coasts, 2010, 33, 1113-1127.	2.2	19
51	Rapid, non-destructive carbon analysis of forest soils using neutron-induced gamma-ray spectroscopy. Forest Ecology and Management, 2010, 260, 1132-1137.	3.2	10
52	Spatial variability of long-term chemical weathering rates in the White Mountains, New Hampshire, USA. Geoderma, 2010, 154, 294-301.	5.1	28
53	Meta-analysis of fertilization experiments indicates multiple limiting nutrients in northeastern deciduous forests. Canadian Journal of Forest Research, 2010, 40, 1766-1780.	1.7	101
54	Ice storm effects on the canopy structure of a northern hardwood forest after 8 years. Canadian Journal of Forest Research, 2009, 39, 1475-1483.	1.7	31

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55	Nitrogen Inputs to Narragansett Bay: An Historical Perspective. , 2008, , 177-210.		7
56	Remote sensing assessment of forest damage in relation to the 1996 strong typhoon Herb at Lienhuachi Experimental Forest, Taiwan. Forest Ecology and Management, 2008, 255, 3297-3306.	3.2	61
57	Terrestrial gastropod responses to an ecosystem-level calcium manipulation in a northern hardwood forest. Canadian Journal of Zoology, 2007, 85, 994-1007.	1.0	30
58	Validation and refinement of allometric equations for roots of northern hardwoods. Canadian Journal of Forest Research, 2007, 37, 1777-1783.	1.7	20
59	Estimating Root Biomass in Rocky Soils using Pits, Cores, and Allometric Equations. Soil Science Society of America Journal, 2007, 71, 206-213.	2.2	53
60	Green leaf phenology at Landsat resolution: Scaling from the field to the satellite. Remote Sensing of Environment, 2006, 100, 265-279.	11.0	456