

Peter M Vitousek

List of Publications by Year in descending order

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75
papers

20,067
citations

71102

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88630

70
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docs citations

78
times ranked

17345
citing authors

#	ARTICLE	IF	CITATIONS
1	Foliar $\delta^{15}\text{N}$ patterns in legumes and non-N fixers across a climate gradient, Hawai'i Island, USA. <i>Oecologia</i> , 2022, 198, 229-242.	2.0	2
2	Environmental filtering controls soil biodiversity in wet tropical ecosystems. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108571.	8.8	3
3	Exploring global changes in agricultural ammonia emissions and their contribution to nitrogen deposition since 1980. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121998119.	7.1	69
4	Constraints of Climate and Age on Soil Development in Hawai'i. , 2022, , 49-88.		3
5	Diversity of putative ericoid mycorrhizal fungi increases with soil age and progressive phosphorus limitation across a 4.1-million-year chronosequence. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	10
6	Nitrogen deposition accelerates soil carbon sequestration in tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	120
7	Soil-Food-Environment-Health Nexus for Sustainable Development. <i>Research</i> , 2021, 2021, 9804807.	5.7	15
8	A $\delta^{15}\text{N}$ -model of biogeochemical dynamics on climate gradients. <i>Biogeochemistry</i> , 2021, 154, 183-210.	3.5	9
9	Changes in belowground biodiversity during ecosystem development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6891-6896.	7.1	151
10	Quantitative Analysis of Pedogenic Thresholds and Domains in Volcanic Soils. <i>Ecosystems</i> , 2019, 22, 1633-1649.	3.4	14
11	Nitrogen dynamics along a climate gradient on geologically old substrate, Kaua'i, Hawai'i. <i>Oecologia</i> , 2019, 189, 211-219.	2.0	6
12	Soil fertility response to <i>Ulex europaeus</i> invasion and restoration efforts. <i>Biological Invasions</i> , 2018, 20, 2777-2791.	2.4	10
13	Plant acclimation to long-term high nitrogen deposition in an N-rich tropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5187-5192.	7.1	164
14	Restoration of <i>Āina Malo</i> on Hawai'i Island: Expanding Biocultural Relationships. <i>Sustainability</i> , 2018, 10, 3985.	3.2	29
15	Combining spectroscopic and isotopic techniques gives a dynamic view of phosphorus cycling in soil. <i>Nature Communications</i> , 2018, 9, 3226.	12.8	141
16	Policy distortions, farm size, and the overuse of agricultural chemicals in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7010-7015.	7.1	455
17	Controls of nitrogen cycling evaluated along a well-characterized climate gradient. <i>Ecology</i> , 2017, 98, 1117-1129.	3.2	24
18	Convergence and contrast in the community structure of Bacteria, Fungi and Archaea along a tropical elevation-climate gradient. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	84

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19	Restoring people and productivity to Puanui: challenges and opportunities in the restoration of an intensive rain-fed Hawaiian field system. <i>Ecology and Society</i> , 2017, 22, .	2.3	23
20	Parent material and pedogenic thresholds: observations and a simple model. <i>Biogeochemistry</i> , 2016, 130, 147-157.	3.5	18
21	Climate-driven thresholds for chemical weathering in postglacial soils of New Zealand. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1619-1634.	2.8	79
22	The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , 2016, 7, e01234.	2.2	21
23	Evidence for a Historic Change Occurring in China. <i>Environmental Science & Technology</i> , 2016, 50, 505-506.	10.0	105
24	Strengthening Agronomy Research for Food Security and Environmental Quality. <i>Environmental Science & Technology</i> , 2016, 50, 1639-1641.	10.0	13
25	Nitrogen fixation during decomposition of sugarcane (<i>Saccharum officinarum</i>) is an important contribution to nutrient supply in traditional dryland agricultural systems of Hawai'i. <i>International Journal of Agricultural Sustainability</i> , 2016, 14, 214-230.	3.5	21
26	Grassland ecology: Complexity of nutrient constraints. <i>Nature Plants</i> , 2015, 1, 15098.	9.3	11
27	Provincial food security in China: a quantitative risk assessment based on local food supply and demand trends. <i>Food Security</i> , 2015, 7, 621-632.	5.3	29
28	Identification and evaluation of risk factors related to provincial food insecurity in China. <i>Journal of Risk Research</i> , 2015, 18, 1184-1202.	2.6	10
29	Variation in Rapa Nui (Easter Island) land use indicates production and population peaks prior to European contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1025-1030.	7.1	74
30	Integrated reactive nitrogen budgets and future trends in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8792-8797.	7.1	430
31	Producing more grain with lower environmental costs. <i>Nature</i> , 2014, 514, 486-489.	27.8	1,292
32	Indicators of soil fertility and opportunities for precontact agriculture in Kona, Hawai'i. <i>Ecosphere</i> , 2014, 5, 1-20.	2.2	27
33	Insightful, Scholarly, and Synthetic: Eville Gorham and the Chemistry of Surface Waters. <i>Bulletin of the Ecological Society of America</i> , 2014, 95, 226-228.	0.2	0
34	Biological nitrogen fixation: rates, patterns and ecological controls in terrestrial ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130119.	4.0	537
35	Enhanced nitrogen deposition over China. <i>Nature</i> , 2013, 494, 459-462.	27.8	2,009
36	An experiment for the world. <i>Nature</i> , 2013, 497, 33-35.	27.8	312

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37	Pedogenic Thresholds and Soil Process Domains in Basalt-Derived Soils. <i>Ecosystems</i> , 2013, 16, 1379-1395.	3.4	105
38	Pacific islands in the Anthropocene. <i>Elementa</i> , 2013, 1, .	3.2	6
39	Managing water, harvesting results. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 3-3.	4.0	2
40	The Ahupua'a of Puanui: A Resource for Understanding Hawaiian Rain-Fed Agriculture. <i>Pacific Science</i> , 2012, 66, 161-172.	0.6	33
41	Introduced Canopy Tree Species Effect on the Soil Microbial Community in a Montane Tropical Forest. <i>Pacific Science</i> , 2012, 66, 141-150.	0.6	8
42	Mineralogical controls on soil black carbon preservation. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	61
43	Long-term carbon storage through retention of dissolved aromatic acids by reactive particles in soil. <i>Global Change Biology</i> , 2012, 18, 2594-2605.	9.5	236
44	<i>Principles of Terrestrial Ecosystem Ecology</i> . , 2011, , .		860
45	Are patterns in nutrient limitation belowground consistent with those aboveground: results from a 4 million year chronosequence. <i>Biogeochemistry</i> , 2011, 106, 323-336.	3.5	59
46	Dependence of Forest Structure and Dynamics on Substrate Age and Ecosystem Development. <i>Ecosystems</i> , 2011, 14, 1156-1167.	3.4	27
47	Erosion, Geological History, and Indigenous Agriculture: A Tale of Two Valleys. <i>Ecosystems</i> , 2010, 13, 782-793.	3.4	25
48	Prevalence of Tree Regeneration by Sprouting and Seeding Along a Rainfall Gradient in Hawai'i. <i>Biotropica</i> , 2010, 42, 80-86.	1.6	33
49	Understanding ecosystem retrogression. <i>Ecological Monographs</i> , 2010, 80, 509-529.	5.4	342
50	Terrestrial phosphorus limitation: mechanisms, implications, and nitrogen-phosphorus interactions. <i>Ecological Applications</i> , 2010, 20, 5-15.	3.8	1,969
51	Top-Down Analysis of Forest Structure and Biogeochemistry Across Hawaiian Landscapes. <i>Pacific Science</i> , 2010, 64, 359-366.	0.6	7
52	Landscape-level variation in forest structure and biogeochemistry across a substrate age gradient in Hawaii. <i>Ecology</i> , 2009, 90, 3074-3086.	3.2	42
53	Nitrogen in Agriculture: Balancing the Cost of an Essential Resource. <i>Annual Review of Environment and Resources</i> , 2009, 34, 97-125.	13.4	854
54	Precontact vegetation and soil nutrient status in the shadow of Kohala Volcano, Hawaii. <i>Geomorphology</i> , 2007, 89, 70-83.	2.6	49

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55	Nitrogen and Nature. <i>Ambio</i> , 2002, 31, 97-101.	5.5	208
56	Production and Resource Use Efficiencies in N- and P-Limited Tropical Forests: A Comparison of Responses to Long-term Fertilization. <i>Ecosystems</i> , 2001, 4, 646-657.	3.4	190
57	Input/Output Balances and Nitrogen Limitation in Terrestrial Ecosystems. , 2001, , 217-225.		21
58	Title is missing!. <i>Biogeochemistry</i> , 2000, 51, 283-302.	3.5	106
59	Climate Cycles, Geomorphological Change, and the Interpretation of Soil and Ecosystem Development. <i>Ecosystems</i> , 2000, 3, 522-533.	3.4	86
60	NUTRIENT LIMITATION OF DECOMPOSITION IN HAWAIIAN FORESTS. <i>Ecology</i> , 2000, 81, 1867-1877.	3.2	410
61	Nutrient Limitation of Decomposition in Hawaiian Forests. <i>Ecology</i> , 2000, 81, 1867.	3.2	17
62	The globalization of N deposition: ecosystem consequences in tropical environments. <i>Biogeochemistry</i> , 1999, 46, 67-83.	3.5	350
63	Ecosystem constraints to symbiotic nitrogen fixers: A simple model and its implications. <i>Biogeochemistry</i> , 1999, 46, 179-202.	3.5	190
64	Ecosystem constraints to symbiotic nitrogen fixers: a simple model and its implications. <i>Biogeochemistry</i> , 1999, 46, 179-202.	3.5	65
65	Ecosystem development on Hawaiian lava flows: biomass and species composition. <i>Journal of Vegetation Science</i> , 1998, 9, 17-26.	2.2	127
66	Technical Report: Human Alteration of the Global Nitrogen Cycle: Sources and Consequences. , 1997, 7, 737.		217
67	PRIMARY PRODUCTIVITY AND ECOSYSTEM DEVELOPMENT ALONG AN ELEVATIONAL GRADIENT ON MAUNA LOA, HAWAII. <i>Ecology</i> , 1997, 78, 707-721.	3.2	226
68	Mineral control of soil organic carbon storage and turnover. <i>Nature</i> , 1997, 389, 170-173.	27.8	1,318
69	Nutrient limitation and soil development: Experimental test of a biogeochemical theory. <i>Biogeochemistry</i> , 1997, 37, 63-75.	3.5	626
70	Changes in Soil Phosphorus Fractions and Ecosystem Dynamics across a Long Chronosequence in Hawaii. <i>Ecology</i> , 1995, 76, 1407-1424.	3.2	824
71	Nutrient limitations to plant growth during primary succession in Hawaii Volcanoes National Park. <i>Biogeochemistry</i> , 1993, 23, 197-215.	3.5	245
72	The Mauna Loa environmental matrix: foliar and soil nutrients. <i>Oecologia</i> , 1992, 89, 372-382.	2.0	150

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73	Can Planted Forests Counteract Increasing Atmospheric Carbon Dioxide?. Journal of Environmental Quality, 1991, 20, 348-354.	2.0	96
74	Nitrogen limitation on land and in the sea: How can it occur?. Biogeochemistry, 1991, 13, 87.	3.5	2,801
75	Foliar ¹⁵ N natural abundance in Hawaiian rainforest: patterns and possible mechanisms. Oecologia, 1989, 78, 383-388.	2.0	194