Stephen A Wood

List of Publications by Year
in descending order

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Version: 2024-02-01

64 papers	7,171 citations	126708 33 h-index	123241 61 g-index
71 all docs	71 docs citations	71 times ranked	12073 citing authors

#	Article	IF	Citations
1	A communal catalogue reveals Earthâ€™s multiscale microbial diversity. Nature, 2017, 551, 457-463.	13.7	1,942
2	The role of soil carbon in natural climate solutions. Nature Sustainability, 2020, 3, 391-398.	11.5	571
3	Understanding the dominant controls on litter decomposition. Journal of Ecology, 2016, 104, 229-238.	1.9	409
4	Global meta-analysis of the relationship between soil organic matter and crop yields. Soil, 2019, 5, 15-32.	2.2	344
5	Climate fails to predict wood decomposition at regional scales. Nature Climate Change, 2014, 4, 625-630.	8.1	281
6	Mapping carbon accumulation potential from global natural forest regrowth. Nature, 2020, 585, 545-550.	13.7	278
7	Functional traits in agriculture: agrobiodiversity and ecosystem services. Trends in Ecology and Evolution, 2015, 30, 531-539.	4.2	274
8	Smallholder farmer cropping decisions related to climate variability across multiple regions. Global Environmental Change, 2014, 25, 163-172.	3.6	207
9	How microbes can, and cannot, be used to assess soil health. Soil Biology and Biochemistry, 2021, 153, 108111.	4.2	196
10	A test of the hierarchical model of litter decomposition. Nature Ecology and Evolution, 2017, 1, 1836-1845.	3.4	172
11	Metrics for land-scarce agriculture. Science, 2015, 349, 238-240.	6.0	171
12	Is voluntary certification of tropical agricultural commodities achieving sustainability goals for small-scale producers? A review of the evidence. Environmental Research Letters, 2017, 12, 033001.	2.2	158
13	Discontinuity in the responses of ecosystem processes and multifunctionality to altered soil community composition. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14478-14483.	3.3	157
14	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135
15	Measuring nutritional diversity of national food supplies. Global Food Security, 2014, 3, 174-182.	4.0	119
16	Trade and the equitability of global food nutrient distribution. Nature Sustainability, 2018, 1, 34-37.	11.5	107
17	Synergies and tradeoffs between cash crop production and food security: a case study in rural Ghana. Food Security, 2014, 6, 541-554.	2.4	103
18	Cross-biome patterns in soil microbial respiration predictable from evolutionary theory on thermal adaptation. Nature Ecology and Evolution, 2019, 3, 223-231.	3.4	100

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19	Elevated methane concentrations in trees of an upland forest. Geophysical Research Letters, 2012, 39, .	1.5	99
20	Soil organic matter underlies crop nutritional quality and productivity in smallholder agriculture. Agriculture, Ecosystems and Environment, 2018, 266, 100-108.	2.5	93
21	Bundling innovations to transform agri-food systems. Nature Sustainability, 2020, 3, 974-976.	11.5	85
22	Soil carbon science for policy and practice. Nature Sustainability, 2019, 2, 1070-1072.	11.5	80
23	Direct effects of soil organic matter on productivity mirror those observed with organic amendments. Plant and Soil, 2018, 423, 363-373.	1.8	77
24	Synergies and trade-offs for sustainable agriculture: Nutritional yields and climate-resilience for cereal crops in Central India. Global Food Security, 2016, 11, 44-53.	4.0	63
25	Consequences of tropical forest conversion to oil palm on soil bacterial community and network structure. Soil Biology and Biochemistry, 2017, 112, 258-268.	4.2	60
26	Biodiversity as a multidimensional construct: a review, framework and case study of herbivory's impact on plant biodiversity. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20153005.	1.2	52
27	Positive effects of afforestation efforts on the health of urban soils. Forest Ecology and Management, 2014, 313, 266-273.	1.4	51
28	Historical foundations and future directions in macrosystems ecology. Ecology Letters, 2017, 20, 147-157.	3.0	49
29	Large-scale farmer-led experiment demonstrates positive impact of cover crops on multiple soil health indicators. Nature Food, 2021, 2, 97-103.	6.2	44
30	10 Years Later. Advances in Ecological Research, 2015, 53, 1-53.	1.4	43
31	Soil organic matter protects US maize yields and lowers crop insurance payouts under drought. Environmental Research Letters, 2021, 16, 044018.	2.2	43
32	Agricultural intensification and the functional capacity of soil microbes on smallholder African farms. Journal of Applied Ecology, 2015, 52, 744-752.	1.9	42
33	Guidelines for Modeling and Reporting Health Effects of Climate Change Mitigation Actions. Environmental Health Perspectives, 2020, 128, 115001.	2.8	40
34	Quantifying microbial control of soil organic matter dynamics at macrosystem scales. Biogeochemistry, 2021, 156, 19-40.	1.7	37
35	Direct evidence using a controlled greenhouse study for threshold effects of soil organic matter on crop growth. Ecological Applications, 2020, 30, e02073.	1.8	36
36	Measuring nutritional quality of agricultural production systems: Application to fish production. Global Food Security, 2018, 16, 54-64.	4.0	31

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37	Biogas Cook Stoves for Healthy and Sustainable Diets? A Case Study in Southern India. Frontiers in Nutrition, 2015, 2, 28.	1.6	30
38	Opposing effects of different soil organic matter fractions on crop yields. Ecological Applications, 2016, 26, 2072-2085.	1.8	30
39	Conceptual Links between Landscape Diversity and Diet Diversity: A Roadmap for Transdisciplinary Research. BioScience, 2020, 70, 563-575.	2.2	28
40	Farm management, not soil microbial diversity, controls nutrient loss from smallholder tropical agriculture. Frontiers in Microbiology, 2015, 6, 90.	1.5	26
41	The impact of climate change on agricultural net revenue: a case study in the Fouta Djallon, West Africa. Environment and Development Economics, 2015, 20, 20-36.	1.3	26
42	How much SOM is needed for sustainable agriculture?. Frontiers in Ecology and the Environment, 2015, 13, 527-527.	1.9	25
43	Forest pattern, not just amount, influences dietary quality in five African countries. Global Food Security, 2020, 25, 100331.	4.0	22
44	Nutritional functional trait diversity of crops in southâ€eastern Senegal. Journal of Applied Ecology, 2018, 55, 81-91.	1.9	21
45	The effect of mineral and organic nutrient input on yields and nitrogen balances in western Kenya. Agriculture, Ecosystems and Environment, 2015, 214, 10-20.	2.5	20
46	Improving scientific impact: How to practice science that influences environmental policy and management. Conservation Science and Practice, 2020, 2, e210.	0.9	19
47	Contingency in ecosystem but not plant community response to multiple global change factors. New Phytologist, 2012, 196, 462-471.	3.5	18
48	Soil suitability for the production of rice, groundnut, and cassava in the peri-urban Niayes zone, Senegal. Soil and Tillage Research, 2016, 155, 412-420.	2.6	18
49	Evidence Synthesis as the Basis for Decision Analysis: A Method of Selecting the Best Agricultural Practices for Multiple Ecosystem Services. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	18
50	Toward an improved understanding of causation in the ecological sciences. Frontiers in Ecology and the Environment, 2022, 20, 474-480.	1.9	17
51	Aligning evidence generation and use across health, development, and environment. Current Opinion in Environmental Sustainability, 2019, 39, 81-93.	3.1	16
52	Organically managed coffee agroforests have larger soil phosphorus but smaller soil nitrogen pools than conventionally managed agroforests. Biogeochemistry, 2013, 115, 385-397.	1.7	15
53	Reply to Byrnes et al.: Aggregation can obscure understanding of ecosystem multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5491.	3.3	15
54	Variation in Tree Growth along Soil Formation and Microtopographic Gradients in Riparian Forests. Wetlands, 2020, 40, 1909-1922.	0.7	11

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55	Making soil health science practical: guiding research for agronomic and environmental benefits. Soil Biology and Biochemistry, 2022, 172, 108776.	4.2	11
56	Leveraging a New Understanding of how Belowground Food Webs Stabilize Soil Organic Matter to Promote Ecological Intensification of Agriculture. , 2018, , 117-136.		9
57	Fertilizer type and species composition affect leachate nutrient concentrations in coffee agroecosystems. Agroforestry Systems, 2013, 87, 1083-1100.	0.9	6
58	Structural Diversity of Woody Species in the Senegalese Semi-Arid Zoneâ€"Ferlo. American Journal of Plant Sciences, 2014, 05, 416-426.	0.3	6
59	Scale dependence in functional equivalence and difference in the soil microbiome. Soil Biology and Biochemistry, 2021, 163, 108451.	4.2	3
60	Supporting evidence varies for rangeland management practices that seek to improve soil properties and forage production in California. California Agriculture, 2020, 74, 101-111.	0.5	2
61	Socio-Technical Innovation Bundles for Agri-Food Systems Transformation. Sustainable Development Goals Series, 2022, , 1-20.	0.2	2
62	Mangi teusâ€teus. Journal of Islamic Marketing, 2010, 1, 203-219.	2.3	1
63	Nutrient Gaps in Changing Food Systems in Rural Africa. European Journal of Nutrition & Food Safety, 2015, 5, 848-849.	0.2	0
64	Microbial Communities and Processes Under Climate and Land-use Change in the Tropics. , 2016, , 167-184.		0