Paul C West

List of Publications by Year
in descending order

51 papers	17,383 citations	126708 33 h-index	243296 44 g-index
51 all docs	51 docs citations	51 times ranked	22709 citing authors

#	Article	IF	Citations
1	Solutions for a cultivated planet. Nature, 2011, 478, 337-342.	13.7	5,821
2	Yield Trends Are Insufficient to Double Global Crop Production by 2050. PLoS ONE, 2013, 8, e66428.	1.1	2,328
3	Recent patterns of crop yield growth and stagnation. Nature Communications, 2012, 3, 1293.	5.8	1,146
4	Climate variation explains a third of global crop yield variability. Nature Communications, 2015, 6, 5989.	5.8	1,138
5	Toward Principles for Enhancing the Resilience of Ecosystem Services. Annual Review of Environment and Resources, 2012, 37, 421-448.	5.6	844
6	Global change pressures on soils from land use and management. Global Change Biology, 2016, 22, 1008-1028.	4.2	605
7	Leverage points for improving global food security and the environment. Science, 2014, 345, 325-328.	6.0	584
8	Climate change has likely already affected global food production. PLoS ONE, 2019, 14, e0217148.	1.1	470
9	Redefining agricultural yields: from tonnes to people nourished per hectare. Environmental Research Letters, 2013, 8, 034015.	2.2	444
10	Greenhouse gas emissions intensity of globalÂcroplands. Nature Climate Change, 2017, 7, 63-68.	8.1	414
11	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	6.2	285
12	Trading carbon for food: Global comparison of carbon stocks vs. crop yields on agricultural land. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19645-19648.	3.3	276
13	Subnational distribution of average farm size and smallholder contributions to global food production. Environmental Research Letters, 2016, 11, 124010.	2.2	271
14	Farming and the geography of nutrient production for human use: a transdisciplinary analysis. Lancet Planetary Health, The, 2017, 1, e33-e42.	5.1	268
15	Reducing emissions from agriculture to meet the 2ÂÂ°C target. Global Change Biology, 2016, 22, 3859-3864.	4.2	267
16	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. Soil, 2015, 1, 665-685.	2.2	249
17	Rethinking Agricultural Trade Relationships in an Era of Globalization. BioScience, 2015, 65, 275-289.	2.2	179
18	Increasing importance of precipitation variability on global livestock grazing lands. Nature Climate Change, 2018, 8, 214-218.	8.1	156

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19	Climate adaptation by crop migration. Nature Communications, 2020, 11, 1243.	5.8	153
20	Progress towards sustainable intensification in China challenged by land-use change. Nature Sustainability, 2018, 1, 304-313.	11.5	151
21	Degradation in carbon stocks near tropical forest edges. Nature Communications, 2015, 6, 10158.	5.8	149
22	Environmental health impacts of feeding crops to farmed fish. Environment International, 2016, 91, 201-214.	4.8	138
23	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135
24	The vulnerabilities of agricultural land and food production to future water scarcity. Global Environmental Change, 2019, 58, 101944.	3.6	120
25	Spatially explicit estimates of N₂O emissions from croplands suggest climate mitigation opportunities from improved fertilizer management. Global Change Biology, 2016, 22, 3383-3394.	4.2	112
26	A tradeoff frontier for global nitrogen use and cereal production. Environmental Research Letters, 2014, 9, 054002.	2.2	100
27	A framework for priority-setting in climate smart agriculture research. Agricultural Systems, 2018, 167, 161-175.	3.2	95
28	An alternative approach for quantifying climate regulation by ecosystems. Frontiers in Ecology and the Environment, 2011, 9, 126-133.	1.9	67
29	Mapping global development potential for renewable energy, fossil fuels, mining and agriculture sectors. Scientific Data, 2019, 6, 101.	2.4	64
30	A World at Risk: Aggregating Development Trends to Forecast Global Habitat Conversion. PLoS ONE, 2015, 10, e0138334.	1.1	50
31	Uncertainties of potentials and recent changes in global yields of major crops resulting from census- and satellite-based yield datasets at multiple resolutions. PLoS ONE, 2018, 13, e0203809.	1.1	37
32	Pathways for recent Cerrado soybean expansion: extending the soy moratorium and implementing integrated crop livestock systems with soybeans. Environmental Research Letters, 2019, 14, 044029.	2.2	36
33	Preparing for the future: teaching scenario planning at the graduate level. Frontiers in Ecology and the Environment, 2010, 8, 267-273.	1.9	35
34	Incremental Dual-memory LSTM in Land Cover Prediction. , 2017, , .		35
35	Voluntary sustainability standards could significantly reduce detrimental impacts of global agriculture. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2130-2137.	3.3	31
36	Principle 1 â€“Maintain diversity and redundancy. , 2015, , 50-79.		19

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37	A Simple, Minimal Parameter Model for Predicting the Influence of Changing Land Cover on the Landâ€“Atmosphere System+. Earth Interactions, 2011, 15, 1-32.	0.7	16
38	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. Environmental Research Letters, 2018, 13, 064008.	2.2	16
39	Climate Solutions Double as Health Interventions. International Journal of Environmental Research and Public Health, 2021, 18, 13339.	1.2	16
40	Learning large-scale plantation mapping from imperfect annotators. , 2016, , .		15
41	Predict Land Covers with Transition Modeling and Incremental Learning. , 2017, , 171-179.		13
42	Assessing land use/cover dynamics and exploring drivers in the Amazon's arc of deforestation through a hierarchical, multi-scale and multi-temporal classification approach. Remote Sensing Applications: Society and Environment, 2019, 15, 100233.	0.8	10
43	Redesigning Planning, Governance, and Policies to Achieve Multiple Sustainable Development Goals. One Earth, 2019, 1, 303-304.	3.6	6
44	Feeding the World and Protecting Biodiversity. , 2013, , 426-434.		4
45	Intuitive simulation, querying, and visualization for river basin policy and management. IBM Journal of Research and Development, 2009, 53, 7:1-7:18.	3.2	3
46	Automated Plantation Mapping in Southeast Asia Using MODIS Data and Imperfect Visual Annotations. Remote Sensing, 2020, 12, 636.	1.8	3
47	Is domestic agricultural production sufficient to meet national food nutrient needs in Brazil?. PLoS ONE, 2021, 16, e0251778.	1.1	3
48	Determining the value of ecosystem services in agriculture. , 2019, , 60-89.		2
49	Plantation Mapping in Southeast Asia. Frontiers in Big Data, 2019, 2, 46.	1.8	2
50	The Nature Conservancyâ€™s approach to conserving and rehabilitating biological diversity in the Upper Mississippi River system. tab:. Large Rivers, 2003, 15, 549-560.	0.0	2
51	Reply to Vermeulen and Wollenberg: Distinguishing food security and crop yields. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E31-E31.	3.3	0