

Paul C West

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.

50
papers

11,841
citations

31
h-index

51
g-index

51
ext. papers

14,295
ext. citations

10.5
avg, IF

6.21
L-index

#	Paper	IF	Citations
50	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	47.5	4247
49	Yield Trends Are Insufficient to Double Global Crop Production by 2050. <i>PLoS ONE</i> , 2013 , 8, e66428	3.6	1547
48	Recent patterns of crop yield growth and stagnation. <i>Nature Communications</i> , 2012 , 3, 1293	16.9	783
47	Climate variation explains a third of global crop yield variability. <i>Nature Communications</i> , 2015 , 6, 5989	16.9	717
46	Toward Principles for Enhancing the Resilience of Ecosystem Services. <i>Annual Review of Environment and Resources</i> , 2012 , 37, 421-448	17.1	607
45	Leverage points for improving global food security and the environment. <i>Science</i> , 2014 , 345, 325-8	32.2	416
44	Global change pressures on soils from land use and management. <i>Global Change Biology</i> , 2016 , 22, 1008-282	11.2	383
43	Redefining agricultural yields: from tonnes to people nourished per hectare. <i>Environmental Research Letters</i> , 2013 , 8, 034015	6.1	329
42	Trading carbon for food: global comparison of carbon stocks vs. crop yields on agricultural land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19645-8	11.1	225
41	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017 , 7, 63-68	21.1	215
40	Climate change has likely already affected global food production. <i>PLoS ONE</i> , 2019 , 14, e0217148	3.6	195
39	Reducing emissions from agriculture to meet the 2030 target. <i>Global Change Biology</i> , 2016 , 22, 3859-3864	11.2	197
38	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. <i>Soil</i> , 2015 , 1, 665-685	5.7	184
37	Subnational distribution of average farm size and smallholder contributions to global food production. <i>Environmental Research Letters</i> , 2016 , 11, 124010	6.1	182
36	Farming and the geography of nutrient production for human use: a transdisciplinary analysis. <i>Lancet Planetary Health</i> , 2017 , 1, e33-e42	9	176
35	Rethinking Agricultural Trade Relationships in an Era of Globalization. <i>BioScience</i> , 2015 , 65, 275-289	5.6	137
34	Degradation in carbon stocks near tropical forest edges. <i>Nature Communications</i> , 2015 , 6, 10158	16.9	107

33	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020 , 1, 266-272	14.8	106
32	Increasing importance of precipitation variability on global livestock grazing lands. <i>Nature Climate Change</i> , 2018 , 8, 214-218	21.1	95
31	Environmental health impacts of feeding crops to farmed fish. <i>Environment International</i> , 2016 , 91, 201-14.8	14.8	78
30	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014 , 9, 054002	6.1	79
29	Reply to Vermeulen and Wollenberg: Distinguishing food security and crop yields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E31-E31	11.1	78
28	Spatially explicit estimates of N ₂ O emissions from croplands suggest climate mitigation opportunities from improved fertilizer management. <i>Global Change Biology</i> , 2016 , 22, 3383-94	11.2	74
27	Progress towards sustainable intensification in China challenged by land-use change. <i>Nature Sustainability</i> , 2018 , 1, 304-313	21.8	70
26	Climate adaptation by crop migration. <i>Nature Communications</i> , 2020 , 11, 1243	16.9	58
25	The vulnerabilities of agricultural land and food production to future water scarcity. <i>Global Environmental Change</i> , 2019 , 58, 101944	9.9	55
24	An alternative approach for quantifying climate regulation by ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 126-133	5.4	56
23	A framework for priority-setting in climate smart agriculture research. <i>Agricultural Systems</i> , 2018 , 167, 161-175	6	47
22	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health</i> , 2021 , 5, e50-e62	9	42
21	Mapping global development potential for renewable energy, fossil fuels, mining and agriculture sectors. <i>Scientific Data</i> , 2019 , 6, 101	8	35
20	A World at Risk: Aggregating Development Trends to Forecast Global Habitat Conversion. <i>PLoS ONE</i> , 2015 , 10, e0138334	3.6	35
19	Preparing for the future: teaching scenario planning at the graduate level. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 267-273	5.4	29
18	Uncertainties of potentials and recent changes in global yields of major crops resulting from census- and satellite-based yield datasets at multiple resolutions. <i>PLoS ONE</i> , 2018 , 13, e0203809	3.6	24
17	Incremental Dual-memory LSTM in Land Cover Prediction 2017 ,		16
16	Pathways for recent Cerrado soybean expansion: extending the soy moratorium and implementing integrated crop livestock systems with soybeans. <i>Environmental Research Letters</i> , 2019 , 14, 044029	6.1	15

15	A Simple, Minimal Parameter Model for Predicting the Influence of Changing Land Cover on the Land-Atmosphere System+. <i>Earth Interactions</i> , 2011 , 15, 1-32	1.4	15
14	Voluntary sustainability standards could significantly reduce detrimental impacts of global agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2130-2137	11.1	13
13	Principle 1 Maintain diversity and redundancy50-79		12
12	Balancing tradeoffs: Reconciling multiple environmental goals when ecosystem services vary regionally. <i>Environmental Research Letters</i> , 2018 , 13, 064008	6.1	8
11	Learning large-scale plantation mapping from imperfect annotators 2016 ,		8
10	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. <i>Remote Sensing Applications: Society and Environment</i> , 2019 , 15, 100233	2.7	7
9	Predict Land Covers with Transition Modeling and Incremental Learning 2017 , 171-179		6
8	Redesigning Planning, Governance, and Policies to Achieve Multiple Sustainable Development Goals. <i>One Earth</i> , 2019 , 1, 303-304	7.7	3
7	Feeding the World and Protecting Biodiversity 2013 , 426-434		3
6	Intuitive simulation, querying, and visualization for river basin policy and management. <i>IBM Journal of Research and Development</i> , 2009 , 53, 7:1-7:18	2.3	2
5	The Nature Conservancy's approach to conserving and rehabilitating biological diversity in the Upper Mississippi River system. <i>Large Rivers</i> , 2003 , 15, 549-560		2
4	Determining the value of ecosystem services in agriculture 2019 , 60-89		2
3	Plantation Mapping in Southeast Asia. <i>Frontiers in Big Data</i> , 2019 , 2, 46	2.8	1
2	Automated Plantation Mapping in Southeast Asia Using MODIS Data and Imperfect Visual Annotations. <i>Remote Sensing</i> , 2020 , 12, 636	4.8	1
1	Is domestic agricultural production sufficient to meet national food nutrient needs in Brazil?. <i>PLoS ONE</i> , 2021 , 16, e0251778	3.6	