Stefan Olin

List of Publications by Year
in descending order

39 papers	3,572 citations	279778 23 h-index	302107 39 g-index
41 all docs	41 docs citations	41 times ranked	5100 citing authors

#	Article	IF	Citations
1	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	27.8	814
2	Constraints and potentials of future irrigation water availability on agricultural production under climate change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3239-3244.	7.1	795
3	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. Global Change Biology, 2019, 25, 640-659.	9.5	214
4	Global gridded crop model evaluation: benchmarking, skills, deficiencies and implications. Geoscientific Model Development, 2017, 10, 1403-1422.	3.6	213
5	Regional disparities in the beneficial effects of rising CO2 concentrations on crop waterÂproductivity. Nature Climate Change, 2016, 6, 786-790.	18.8	190
6	The Global N2O Model Intercomparison Project. Bulletin of the American Meteorological Society, 2018, 99, 1231-1251.	3.3	123
7	Implications of accounting for land use in simulations of ecosystem carbon cycling in Africa. Earth System Dynamics, 2013, 4, 385-407.	7.1	118
8	Simulated carbon emissions from land-use change are substantially enhanced by accounting for agricultural management. Environmental Research Letters, 2015, 10, 124008.	5.2	103
9	Recent divergence in the contributions of tropical and boreal forests to the terrestrial carbon sink. Nature Ecology and Evolution, 2020, 4, 202-209.	7.8	93
10	Understanding the weather signal in national cropâ€yield variability. Earth's Future, 2017, 5, 605-616.	6.3	85
11	Large potential for crop production adaptation depends on available future varieties. Global Change Biology, 2021, 27, 3870-3882.	9.5	62
12	Global irrigation contribution to wheat and maize yield. Nature Communications, 2021, 12, 1235.	12.8	61
13	The Global Gridded Crop Model Intercomparison phase 1 simulation dataset. Scientific Data, 2019, 6, 50.	5.3	57
14	Large uncertainty in carbon uptake potential of landâ€based climateâ€change mitigation efforts. Global Change Biology, 2018, 24, 3025-3038.	9.5	56
15	Exploring uncertainties in global crop yield projections in a large ensemble of crop models and CMIP5 and CMIP6 climate scenarios. Environmental Research Letters, 2021, 16, 034040.	5.2	53
16	Modelling the response of yields and tissue C : N to changes in atmospheric CO₂ and N management in the main wheat regions of western Europe. Biogeosciences, 2015, 12, 2489-2515.	3.3	47
17	Parameterization-induced uncertainties and impacts of crop management harmonization in a global gridded crop model ensemble. PLoS ONE, 2019, 14, e0221862.	2.5	42
18	Soil carbon management in large-scale Earth system modelling: implications for crop yields and nitrogen leaching. Earth System Dynamics, 2015, 6, 745-768.	7.1	40

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19	Global Response Patterns of Major Rainfed Crops to Adaptation by Maintaining Current Growing Periods and Irrigation. Earth's Future, 2019, 7, 1464-1480.	6.3	38
20	The GGCMI Phase 2 experiment: global gridded crop model simulations under uniform changes in CO₂, temperature, water, and nitrogen levels (protocol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	38
21	Food supply and bioenergy production within the global cropland planetary boundary. PLoS ONE, 2018, 13, e0194695.	2.5	38
22	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. Biogeosciences, 2017, 14, 4829-4850.	3.3	33
23	Assessing uncertainties in global cropland futures using a conditional probabilistic modelling framework. Earth System Dynamics, 2016, 7, 893-915.	7.1	33
24	A physiologyâ€based Earth observation model indicates stagnation in the global gross primary production during recent decades. Global Change Biology, 2021, 27, 836-854.	9.5	25
25	Agricultural breadbaskets shift poleward given adaptive farmer behavior under climate change. Global Change Biology, 2022, 28, 167-181.	9.5	23
26	Drivers of dissolved organic carbon export in a subarctic catchment: Importance of microbial decomposition, sorption-desorption, peatland and lateral flow. Science of the Total Environment, 2018, 622-623, 260-274.	8.0	20
27	The GGCMI PhaseÂ2 emulators: global gridded crop model responses to changes in CO₂, temperature, water, and nitrogen (version 1.0). Geoscientific Model Development, 2020, 13, 3995-4018.	3.6	19
28	Future vegetationâ€“climate interactions in Eastern Siberia: an assessment of the competing effects of CO₂ and secondary organic aerosols. Atmospheric Chemistry and Physics, 2016, 16, 5243-5262.	4.9	17
29	Strong regional influence of climatic forcing datasets on global crop model ensembles. Agricultural and Forest Meteorology, 2021, 300, 108313.	4.8	17
30	Investigating the influence of two different flow routing algorithms on soilâ€“waterâ€“vegetation interactions using the dynamic ecosystem model LPJâ€GUESS. Ecohydrology, 2015, 8, 570-583.	2.4	16
31	Assessing the impact of changes in land-use intensity and climate on simulated trade-offs between crop yield and nitrogen leaching. Agriculture, Ecosystems and Environment, 2017, 239, 385-398.	5.3	13
32	Accounting for interannual variability in agricultural intensification: The potential of crop selection in Sub-Saharan Africa. Agricultural Systems, 2016, 148, 159-168.	6.1	10
33	Modeling symbiotic biological nitrogen fixation in grain legumes globally with LPJ-GUESS (v4.0,) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	10
34	Trends and uncertainties in budburst projections of Norway spruce in Northern Europe. Ecology and Evolution, 2017, 7, 9954-9969.	1.9	9
35	Implications of accounting for management intensity on carbon and nitrogen balances of European grasslands. PLoS ONE, 2018, 13, e0201058.	2.5	9
36	Nitrogen restricts future sub-arctic treeline advance in an individual-based dynamic vegetation model. Biogeosciences, 2021, 18, 6329-6347.	3.3	6

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37	Future supply and demand of net primary productionÂinÂtheÂSahel. Earth System Dynamics, 2017, 8, 1191-1221.	7.1	3
38	Impacts of climate mitigation strategies in the energy sector on global land use and carbon balance. Earth System Dynamics, 2017, 8, 773-799.	7.1	3
39	Assessing the impacts of agricultural managements on soil carbon stocks, nitrogen loss, and crop productionÂâ€“ a modelling study in eastern Africa. Biogeosciences, 2022, 19, 2145-2169.	3.3	2