

# Stefan Olin

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Agricultural breadbaskets shift poleward given adaptive farmer behavior under climate change. <i>Global Change Biology</i> , 2022, 28, 167-181.	9.5	23
2	Modeling symbiotic biological nitrogen fixation in grain legumes globally with LPJ-GUESS (v4.0.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70</i>	3.6	10
3	Assessing the impacts of agricultural managements on soil carbon stocks, nitrogen loss, and crop production— a modelling study in eastern Africa. <i>Biogeosciences</i> , 2022, 19, 2145-2169.	3.3	2
4	A physiology-based Earth observation model indicates stagnation in the global gross primary production during recent decades. <i>Global Change Biology</i> , 2021, 27, 836-854.	9.5	25
5	Global irrigation contribution to wheat and maize yield. <i>Nature Communications</i> , 2021, 12, 1235.	12.8	61
6	Exploring uncertainties in global crop yield projections in a large ensemble of crop models and CMIP5 and CMIP6 climate scenarios. <i>Environmental Research Letters</i> , 2021, 16, 034040.	5.2	53
7	Strong regional influence of climatic forcing datasets on global crop model ensembles. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108313.	4.8	17
8	Large potential for crop production adaptation depends on available future varieties. <i>Global Change Biology</i> , 2021, 27, 3870-3882.	9.5	62
9	Nitrogen restricts future sub-arctic treeline advance in an individual-based dynamic vegetation model. <i>Biogeosciences</i> , 2021, 18, 6329-6347.	3.3	6
10	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020, 586, 248-256.	27.8	814
11	The GGCMI Phase 2 experiment: global gridded crop model simulations under uniform changes in CO <sub>2</sub> , temperature, water, and nitrogen levels (protocol) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	3.6	19
12	Recent divergence in the contributions of tropical and boreal forests to the terrestrial carbon sink. <i>Nature Ecology and Evolution</i> , 2020, 4, 202-209.	7.8	93
13	The GGCMI Phase 2 emulators: global gridded crop model responses to changes in CO <sub>2</sub> , temperature, water, and nitrogen (version 1.0). <i>Geoscientific Model Development</i> , 2020, 13, 3995-4018.	3.6	19
14	Parameterization-induced uncertainties and impacts of crop management harmonization in a global gridded crop model ensemble. <i>PLoS ONE</i> , 2019, 14, e0221862.	2.5	42
15	The Global Gridded Crop Model Intercomparison phase 1 simulation dataset. <i>Scientific Data</i> , 2019, 6, 50.	5.3	57
16	Global Response Patterns of Major Rainfed Crops to Adaptation by Maintaining Current Growing Periods and Irrigation. <i>Earth's Future</i> , 2019, 7, 1464-1480.	6.3	38
17	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. <i>Global Change Biology</i> , 2019, 25, 640-659.	9.5	214
18	Large uncertainty in carbon uptake potential of land-based climate change mitigation efforts. <i>Global Change Biology</i> , 2018, 24, 3025-3038.	9.5	56

#	ARTICLE	IF	CITATIONS
19	Drivers of dissolved organic carbon export in a subarctic catchment: Importance of microbial decomposition, sorption-desorption, peatland and lateral flow. <i>Science of the Total Environment</i> , 2018, 622-623, 260-274.	8.0	20
20	The Global N <sub>2</sub> O Model Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1231-1251.	3.3	123
21	Implications of accounting for management intensity on carbon and nitrogen balances of European grasslands. <i>PLoS ONE</i> , 2018, 13, e0201058.	2.5	9
22	Food supply and bioenergy production within the global cropland planetary boundary. <i>PLoS ONE</i> , 2018, 13, e0194695.	2.5	38
23	Assessing the impact of changes in land-use intensity and climate on simulated trade-offs between crop yield and nitrogen leaching. <i>Agriculture, Ecosystems and Environment</i> , 2017, 239, 385-398.	5.3	13
24	Understanding the weather signal in national crop yield variability. <i>Earth's Future</i> , 2017, 5, 605-616.	6.3	85
25	Trends and uncertainties in budburst projections of Norway spruce in Northern Europe. <i>Ecology and Evolution</i> , 2017, 7, 9954-9969.	1.9	9
26	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. <i>Biogeosciences</i> , 2017, 14, 4829-4850.	3.3	33
27	Global gridded crop model evaluation: benchmarking, skills, deficiencies and implications. <i>Geoscientific Model Development</i> , 2017, 10, 1403-1422.	3.6	213
28	Future supply and demand of net primary production in the Sahel. <i>Earth System Dynamics</i> , 2017, 8, 1191-1221.	7.1	3
29	Impacts of climate mitigation strategies in the energy sector on global land use and carbon balance. <i>Earth System Dynamics</i> , 2017, 8, 773-799.	7.1	3
30	Regional disparities in the beneficial effects of rising CO <sub>2</sub> concentrations on crop water productivity. <i>Nature Climate Change</i> , 2016, 6, 786-790.	18.8	190
31	Accounting for interannual variability in agricultural intensification: The potential of crop selection in Sub-Saharan Africa. <i>Agricultural Systems</i> , 2016, 148, 159-168.	6.1	10
32	Future vegetation-climate interactions in Eastern Siberia: an assessment of the competing effects of CO <sub>2</sub> and secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5243-5262.	4.9	17
33	Assessing uncertainties in global cropland futures using a conditional probabilistic modelling framework. <i>Earth System Dynamics</i> , 2016, 7, 893-915.	7.1	33
34	Simulated carbon emissions from land-use change are substantially enhanced by accounting for agricultural management. <i>Environmental Research Letters</i> , 2015, 10, 124008.	5.2	103
35	Investigating the influence of two different flow routing algorithms on soil-water-vegetation interactions using the dynamic ecosystem model LPJ-GUESS. <i>Ecohydrology</i> , 2015, 8, 570-583.	2.4	16
36	Modelling the response of yields and tissue C : N to changes in atmospheric CO <sub>2</sub> and N management in the main wheat regions of western Europe. <i>Biogeosciences</i> , 2015, 12, 2489-2515.	3.3	47

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37	Soil carbon management in large-scale Earth system modelling: implications for crop yields and nitrogen leaching. <i>Earth System Dynamics</i> , 2015, 6, 745-768.	7.1	40
38	Constraints and potentials of future irrigation water availability on agricultural production under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3239-3244.	7.1	795
39	Implications of accounting for land use in simulations of ecosystem carbon cycling in Africa. <i>Earth System Dynamics</i> , 2013, 4, 385-407.	7.1	118