

Nathaniel D Mueller

List of Publications by Citations

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Version: 2024-04-19

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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.

61
papers

12,123
citations

34
h-index

69
g-index

69
ext. papers

15,053
ext. citations

13
avg, IF

6.29
L-index

#	Paper	IF	Citations
61	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	50.4	4351
60	Yield Trends Are Insufficient to Double Global Crop Production by 2050. <i>PLoS ONE</i> , 2013 , 8, e66428	3.7	1598
59	Closing yield gaps through nutrient and water management. <i>Nature</i> , 2012 , 490, 254-7	50.4	1529
58	Recent patterns of crop yield growth and stagnation. <i>Nature Communications</i> , 2012 , 3, 1293	17.4	821
57	A global strategy for road building. <i>Nature</i> , 2014 , 513, 229-32	50.4	428
56	Leverage points for improving global food security and the environment. <i>Science</i> , 2014 , 345, 325-8	33.3	420
55	Climate Change and Global Food Systems: Potential Impacts on Food Security and Undernutrition. <i>Annual Review of Public Health</i> , 2017 , 38, 259-277	20.6	328
54	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017 , 7, 63-68	21.4	229
53	Random Forests for Global and Regional Crop Yield Predictions. <i>PLoS ONE</i> , 2016 , 11, e0156571	3.7	193
52	Use of agro-climatic zones to upscale simulated crop yield potential. <i>Field Crops Research</i> , 2013 , 143, 44-55	5.5	189
51	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). <i>Geoscientific Model Development</i> , 2015 , 8, 261-277	6.3	152
50	Nitrogen use in the global food system: past trends and future trajectories of agronomic performance, pollution, trade, and dietary demand. <i>Environmental Research Letters</i> , 2016 , 11, 095007	6.2	151
49	Cooling of US Midwest summer temperature extremes from cropland intensification. <i>Nature Climate Change</i> , 2016 , 6, 317-322	21.4	133
48	Farmer perceptions of climate change: Associations with observed temperature and precipitation trends, irrigation, and climate beliefs. <i>Global Environmental Change</i> , 2016 , 39, 133-142	10.1	102
47	Global malnutrition overlaps with pollinator-dependent micronutrient production. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20141799	4.4	91
46	Decreases in global beer supply due to extreme drought and heat. <i>Nature Plants</i> , 2018 , 4, 964-973	11.5	90
45	Global wheat production potentials and management flexibility under the representative concentration pathways. <i>Global and Planetary Change</i> , 2014 , 122, 107-121	4.2	85

44	Direct effects, compensation, and recovery in female fathead minnows exposed to a model aromatase inhibitor. <i>Environmental Health Perspectives</i> , 2009 , 117, 624-31	8.4	85
43	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014 , 9, 054002	6.2	80
42	Agricultural risks from changing snowmelt. <i>Nature Climate Change</i> , 2020 , 10, 459-465	21.4	78
41	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	11.4	77
40	Dynamic nature of alterations in the endocrine system of fathead minnows exposed to the fungicide prochloraz. <i>Toxicological Sciences</i> , 2009 , 112, 344-53	4.4	69
39	Climate adaptation by crop migration. <i>Nature Communications</i> , 2020 , 11, 1243	17.4	67
38	Global and regional drivers of land-use emissions in 1961-2017. <i>Nature</i> , 2021 , 589, 554-561	50.4	57
37	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , 2019 , 2, 515-523	22.1	55
36	Effects of a 3beta-hydroxysteroid dehydrogenase inhibitor, trilostane, on the fathead minnow reproductive axis. <i>Toxicological Sciences</i> , 2008 , 104, 113-23	4.4	51
35	Peculiarly pleasant weather for US maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11935-11940	11.5	51
34	An attainable global vision for conservation and human well-being. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 563-570	5.5	51
33	Use of chemical mixtures to differentiate mechanisms of endocrine action in a small fish model. <i>Aquatic Toxicology</i> , 2010 , 99, 389-96	5.1	38
32	Influence of ovarian stage on transcript profiles in fathead minnow (<i>Pimephales promelas</i>) ovary tissue. <i>Aquatic Toxicology</i> , 2010 , 98, 354-66	5.1	36
31	Global Relationships between Cropland Intensification and Summer Temperature Extremes over the Last 50 Years. <i>Journal of Climate</i> , 2017 , 30, 7505-7528	4.4	35
30	The role of Latin America's land and water resources for global food security: environmental trade-offs of future food production pathways. <i>PLoS ONE</i> , 2015 , 10, e0116733	3.7	35
29	The carbon opportunity cost of animal-sourced food production on land. <i>Nature Sustainability</i> , 2021 , 4, 21-24	22.1	35
28	DNA barcoding confirms polyphagy in a generalist moth, <i>Homona mermerodes</i> (Lepidoptera: Tortricidae). <i>Molecular Ecology Notes</i> , 2007 , 7, 549-557		34
27	Declining spatial efficiency of global cropland nitrogen allocation. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 245	5.9	33

26	Quantifying the Limitation to World Cereal Production Due To Soil Phosphorus Status. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 143-157	5.9	23
25	Impact of transnational land acquisitions on local food security and dietary diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	23
24	Global priorities of environmental issues to combat food insecurity and biodiversity loss. <i>Science of the Total Environment</i> , 2020 , 730, 139096	10.2	21
23	Impacts of ozone and climate change on yields of perennial crops in California. <i>Nature Food</i> , 2020 , 1, 166-172	14.4	21
22	Quantification of global and national nitrogen budgets for crop production. <i>Nature Food</i> ,	14.4	19
21	I. Effects of a dopamine receptor antagonist on fathead minnow, <i>Pimephales promelas</i> , reproduction. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 472-7	7	15
20	Health Impacts of the Green Revolution: Evidence from 600,000 births across the Developing World. <i>Journal of Health Economics</i> , 2020 , 74, 102373	3.5	15
19	II: Effects of a dopamine receptor antagonist on fathead minnow dominance behavior and ovarian gene expression in the fathead minnow and zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 478-85	7	13
18	Global irrigation contribution to wheat and maize yield. <i>Nature Communications</i> , 2021 , 12, 1235	17.4	11
17	Data and analysis toolbox for modeling the nexus of food, energy, and water. <i>Sustainable Cities and Society</i> , 2020 , 61, 102281	10.1	9
16	Closing Yield Gaps: Consequences for the Global Food Supply, Environmental Quality & Food Security. <i>Daedalus</i> , 2015 , 144, 45-56	2	8
15	Energy implications of the 21 century agrarian transition. <i>Nature Communications</i> , 2021 , 12, 2319	17.4	7
14	Current state of enteric methane and the carbon footprint of beef and dairy cattle in the United States. <i>Animal Frontiers</i> , 2021 , 11, 57-68	5.5	6
13	Climate risks to Brazilian coffee production. <i>Environmental Research Letters</i> , 2020 , 15, 104015	6.2	5
12	Effects of extreme temperature on China's tea production. <i>Environmental Research Letters</i> , 2021 , 16, 044040	6.2	5
11	Sustainable Pathways for Meeting Future Food Demand 2019 , 14-20		4
10	Assessment of yield gaps on global grazed-only permanent pasture using climate binning. <i>Global Change Biology</i> , 2020 , 26, 1820-1832	11.4	4
9	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. <i>Nature Food</i> ,	14.4	3

8	Countries influence the trade-off between crop yields and nitrogen pollution. <i>Nature Food</i> , 2020 , 1, 713-719	14.9	3
7	Evaluating the benefits of chlorophyll fluorescence for in-season crop productivity forecasting. <i>Remote Sensing of Environment</i> , 2021 , 260, 112478	13.2	3
6	Potential yield simulated by global gridded crop models: using a process-based emulator to explain their differences. <i>Geoscientific Model Development</i> , 2021 , 14, 1639-1656	6.3	2
5	The critical benefits of snowpack insulation and snowmelt for winter wheat productivity. <i>Nature Climate Change</i> ,	21.4	2
4	Establishing long-term nitrogen response of global cereals to assess sustainable fertilizer rates. <i>Nature Food</i> ,	14.4	1
3	Competition for water induced by transnational land acquisitions for agriculture.. <i>Nature Communications</i> , 2022 , 13, 505	17.4	0
2	Insights on Nitrogen and Phosphorus Co-Limitation in Global Croplands From Theoretical and Modeling Fertilization Experiments. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006915	5.9	0
1	Reply to Kovaleski and Baseggio: Increased corn yields from historical climate trends are a double-edged sword. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10209-10210	11.5	