

Nathaniel D Mueller

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8070488/publications.pdf>

Version: 2024-02-01

64
papers

17,759
citations

87723

38
h-index

110170

64
g-index

69
all docs

69
docs citations

69
times ranked

22001
citing authors

#	ARTICLE	IF	CITATIONS
1	Competition for water induced by transnational land acquisitions for agriculture. Nature Communications, 2022, 13, 505.	5.8	24
2	Establishing long-term nitrogen response of global cereals to assess sustainable fertilizer rates. Nature Food, 2022, 3, 122-132.	6.2	30
3	The critical benefits of snowpack insulation and snowmelt for winter wheat productivity. Nature Climate Change, 2022, 12, 485-490.	8.1	19
4	The carbon opportunity cost of animal-sourced food production on land. Nature Sustainability, 2021, 4, 21-24.	11.5	100
5	Impact of transnational land acquisitions on local food security and dietary diversity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	51
6	Global irrigation contribution to wheat and maize yield. Nature Communications, 2021, 12, 1235.	5.8	61
7	Effects of extreme temperature on China's tea production. Environmental Research Letters, 2021, 16, 044040.	2.2	23
8	Potential yield simulated by global gridded crop models: using a process-based emulator to explain their differences. Geoscientific Model Development, 2021, 14, 1639-1656.	1.3	6
9	Energy implications of the 21st century agrarian transition. Nature Communications, 2021, 12, 2319.	5.8	28
10	Insights on Nitrogen and Phosphorus Co-limitation in Global Croplands From Theoretical and Modeling Fertilization Experiments. Global Biogeochemical Cycles, 2021, 35, e2020GB006915.	1.9	3
11	Quantification of global and national nitrogen budgets for crop production. Nature Food, 2021, 2, 529-540.	6.2	108
12	Evaluating the benefits of chlorophyll fluorescence for in-season crop productivity forecasting. Remote Sensing of Environment, 2021, 260, 112478.	4.6	16
13	Current state of enteric methane and the carbon footprint of beef and dairy cattle in the United States. Animal Frontiers, 2021, 11, 57-68.	0.8	19
14	Global and regional drivers of land-use emissions in 1961-2017. Nature, 2021, 589, 554-561.	13.7	256
15	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. Nature Food, 2021, 2, 886-893.	6.2	68
16	Climate impacts and adaptation in US dairy systems 1981-2018. Nature Food, 2021, 2, 894-901.	6.2	16
17	Assessment of yield gaps on global grazed-only permanent pasture using climate binning. Global Change Biology, 2020, 26, 1820-1832.	4.2	11
18	Health Impacts of the Green Revolution: Evidence from 600,000 births across the Developing World. Journal of Health Economics, 2020, 74, 102373.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Nitrogen challenges in global livestock systems. <i>Nature Food</i> , 2020, 1, 400-401.	6.2	24
20	Countries influence the trade-off between crop yields and nitrogen pollution. <i>Nature Food</i> , 2020, 1, 713-719.	6.2	34
21	Global priorities of environmental issues to combat food insecurity and biodiversity loss. <i>Science of the Total Environment</i> , 2020, 730, 139096.	3.9	39
22	Impacts of ozone and climate change on yields of perennial crops in California. <i>Nature Food</i> , 2020, 1, 166-172.	6.2	59
23	Climate adaptation by crop migration. <i>Nature Communications</i> , 2020, 11, 1243.	5.8	153
24	Agricultural risks from changing snowmelt. <i>Nature Climate Change</i> , 2020, 10, 459-465.	8.1	187
25	Data and analysis toolbox for modeling the nexus of food, energy, and water. <i>Sustainable Cities and Society</i> , 2020, 61, 102281.	5.1	19
26	Climate risks to Brazilian coffee production. <i>Environmental Research Letters</i> , 2020, 15, 104015.	2.2	19
27	Reply to Kovalski 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.	3.3	0
28	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , 2019, 2, 515-523.	11.5	106
29	Sustainable Pathways for Meeting Future Food Demand. , 2019, , 14-20.		5
30	Quantifying the Limitation to World Cereal Production Due To Soil Phosphorus Status. <i>Global Biogeochemical Cycles</i> , 2018, 32, 143-157.	1.9	36
31	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.	3.3	83
32	Decreases in global beer supply due to extreme drought and heat. <i>Nature Plants</i> , 2018, 4, 964-973.	4.7	153
33	An attainable global vision for conservation and human well-being. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 563-570.	1.9	71
34	Climate Change and Global Food Systems: Potential Impacts on Food Security and Undernutrition. <i>Annual Review of Public Health</i> , 2017, 38, 259-277.	7.6	591
35	Declining spatial efficiency of global cropland nitrogen allocation. <i>Global Biogeochemical Cycles</i> , 2017, 31, 245-257.	1.9	55
36	Global Relationships between Cropland Intensification and Summer Temperature Extremes over the Last 50 Years. <i>Journal of Climate</i> , 2017, 30, 7505-7528.	1.2	43

#	ARTICLE	IF	CITATIONS
37	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017, 7, 63-68.	8.1	414
38	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, 3383-3394.	4.2	112
39	Feeding a Full Planet. <i>BioScience</i> , 2016, 66, 423-424.	2.2	0
40	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.	3.6	149
41	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.	2.2	227
42	Cooling of US Midwest summer temperature extremes from cropland intensification. <i>Nature Climate Change</i> , 2016, 6, 317-322.	8.1	191
43	Random Forests for Global and Regional Crop Yield Predictions. <i>PLoS ONE</i> , 2016, 11, e0156571.	1.1	377
44	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.	1.1	41
45	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). <i>Geoscientific Model Development</i> , 2015, 8, 261-277.	1.3	190
46	Closing Yield Gaps: Consequences for the Global Food Supply, Environmental Quality & Food Security. <i>Daedalus</i> , 2015, 144, 45-56.	0.9	13
47	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014, 9, 054002.	2.2	100
48	Global malnutrition overlaps with pollinator-dependent micronutrient production. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141799.	1.2	124
49	Global wheat production potentials and management flexibility under the representative concentration pathways. <i>Global and Planetary Change</i> , 2014, 122, 107-121.	1.6	110
50	A global strategy for road building. <i>Nature</i> , 2014, 513, 229-232.	13.7	579
51	Leverage points for improving global food security and the environment. <i>Science</i> , 2014, 345, 325-328.	6.0	584
52	Use of agro-climatic zones to upscale simulated crop yield potential. <i>Field Crops Research</i> , 2013, 143, 44-55.	2.3	234
53	Yield Trends Are Insufficient to Double Global Crop Production by 2050. <i>PLoS ONE</i> , 2013, 8, e66428.	1.1	2,328
54	Recent patterns of crop yield growth and stagnation. <i>Nature Communications</i> , 2012, 3, 1293.	5.8	1,146

#	ARTICLE	IF	CITATIONS
55	Closing yield gaps through nutrient and water management. <i>Nature</i> , 2012, 490, 254-257.	13.7	2,055
56	Solutions for a cultivated planet. <i>Nature</i> , 2011, 478, 337-342.	13.7	5,821
57	I. Effects of a dopamine receptor antagonist on fathead minnow, <i>Pimephales promelas</i> , reproduction. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 472-477.	2.9	17
58	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, 478-485.	2.9	15
59	Influence of ovarian stage on transcript profiles in fathead minnow (<i>Pimephales promelas</i>) ovary tissue. <i>Aquatic Toxicology</i> , 2010, 98, 354-366.	1.9	40
60	Use of chemical mixtures to differentiate mechanisms of endocrine action in a small fish model. <i>Aquatic Toxicology</i> , 2010, 99, 389-396.	1.9	43
61	Direct Effects, Compensation, and Recovery in Female Fathead Minnows Exposed to a Model Aromatase Inhibitor. <i>Environmental Health Perspectives</i> , 2009, 117, 624-631.	2.8	90
62	Dynamic Nature of Alterations in the Endocrine System of Fathead Minnows Exposed to the Fungicide Prochloraz. <i>Toxicological Sciences</i> , 2009, 112, 344-353.	1.4	72
63	Effects of a 3 β -Hydroxysteroid Dehydrogenase Inhibitor, Trilostane, on the Fathead Minnow Reproductive Axis. <i>Toxicological Sciences</i> , 2008, 104, 113-123.	1.4	58
64	DNA barcoding confirms polyphagy in a generalist moth, <i>Homona mermerodes</i> (Lepidoptera: Tj ETQq0 0 0 rgBT /OverJock 10 Jf 50 382 T	1.7	39