

Cameron M Pittelkow

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,022
citations

279798

23
h-index

128289

60
g-index

62
all docs

62
docs citations

62
times ranked

4503
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying N leaching losses as a function of N balance: A path to sustainable food supply chains. <i>Agriculture, Ecosystems and Environment</i> , 2022, 324, 107714.	5.3	20
2	Simulated dataset of corn response to nitrogen over thousands of fields and multiple years in Illinois. <i>Data in Brief</i> , 2022, 40, 107753.	1.0	6
3	In-season split nitrogen application and cover cropping effects on nitrous oxide emissions in rainfed maize. <i>Agriculture, Ecosystems and Environment</i> , 2022, 326, 107813.	5.3	11
4	Predicting nitrate leaching loss in temperate rainfed cereal crops: relative importance of management and environmental drivers. <i>Environmental Research Letters</i> , 2022, 17, 064043.	5.2	7
5	Advancing on-farm research with UAVs: Cover crop effects on crop growth and yield. <i>Agronomy Journal</i> , 2021, 113, 1071-1083.	1.8	1
6	To meet grand challenges, agricultural scientists must engage in the politics of constructive collective action. <i>Crop Science</i> , 2021, 61, 24-31.	1.8	8
7	Development of an Online Tool for Tracking Soil Nitrogen to Improve the Environmental Performance of Maize Production. <i>Sustainability</i> , 2021, 13, 5649.	3.2	2
8	Field-level factors for closing yield gaps in high-yielding rice systems of Uruguay. <i>Field Crops Research</i> , 2021, 264, 108097.	5.1	32
9	Split-nitrogen application with cover cropping reduces subsurface nitrate losses while maintaining corn yields. <i>Journal of Environmental Quality</i> , 2021, 50, 1408-1418.	2.0	10
10	Factors contributing to farm-level productivity and household income generation in coastal Bangladesh's rice-based farming systems. <i>PLoS ONE</i> , 2021, 16, e0256694.	2.5	23
11	Top management challenges and concerns for agronomic crop production in California: Identifying critical issues for extension through needs assessment. <i>Agronomy Journal</i> , 2021, 113, 5254-5270.	1.8	1
12	Understanding differences between static and dynamic nitrogen fertilizer tools using simulation modeling. <i>Agricultural Systems</i> , 2021, 194, 103275.	6.1	10
13	Synergies and tradeoffs among yield, resource use efficiency, and environmental footprint indicators in rice systems. <i>Current Research in Environmental Sustainability</i> , 2021, 3, 100070.	3.5	5
14	Integrated assessment of crop production and resource use efficiency indicators for the U.S. Corn Belt. <i>Global Food Security</i> , 2020, 24, 100339.	8.1	14
15	Towards actionable research frameworks for sustainable intensification in high-yielding rice systems. <i>Scientific Reports</i> , 2020, 10, 9975.	3.3	19
16	Quantifying On-Farm Nitrous Oxide Emission Reductions in Food Supply Chains. <i>Earth's Future</i> , 2020, 8, e2020EF001504.	6.3	19
17	Balancing Economic and Environmental Performance for Small-Scale Rice Farmers in Peru. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	6
18	Evaluation of nitrogen loss reduction strategies using DRAINMOD-DSSAT in east-central Illinois. <i>Agricultural Water Management</i> , 2020, 240, 106322.	5.6	13

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19	Relationship of in-season soil nitrogen concentration with corn yield and potential nitrogen losses. <i>Soil Science Society of America Journal</i> , 2020, 84, 1296-1306.	2.2	4
20	Soil and crop response to phosphorus and potassium management under conservation tillage. <i>Agronomy Journal</i> , 2020, 112, 2302-2316.	1.8	11
21	Assessment of high-input soybean management in the US Midwest: Balancing crop production with environmental performance. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106811.	5.3	19
22	Agronomic, economic, and environmental performance of nitrogen rates and source in Bangladesh's coastal rice agroecosystems. <i>Field Crops Research</i> , 2019, 241, 107567.	5.1	18
23	Combining Environmental Monitoring and Remote Sensing Technologies to Evaluate Cropping System Nitrogen Dynamics at the Field-Scale. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	3.9	13
24	Unmanned aerial vehicle-based assessment of cover crop biomass and nitrogen uptake variability. <i>Journal of Soils and Water Conservation</i> , 2019, 74, 350-359.	1.6	23
25	Analysis of the MANAGE Drain Concentration Database to Evaluate Agricultural Management Effects on Drainage Water Nutrient Concentrations. <i>Transactions of the ASABE</i> , 2019, 62, 929-939.	1.1	1
26	The MANAGE Drain Concentration database: A new tool compiling North American drainage nutrient concentrations. <i>Agricultural Water Management</i> , 2019, 216, 113-117.	5.6	13
27	Modeling Inorganic Soil Nitrogen Status in Maize Agroecosystems. <i>Soil Science Society of America Journal</i> , 2019, 83, 1564-1574.	2.2	6
28	Assessing variation in maize grain nitrogen concentration and its implications for estimating nitrogen balance in the US North Central region. <i>Field Crops Research</i> , 2019, 240, 185-193.	5.1	29
29	Simulated responses of tile-drained agricultural systems to recent changes in ambient atmospheric gradients. <i>Agricultural Systems</i> , 2019, 168, 48-55.	6.1	7
30	Dynamic biochar effects on soil nitrous oxide emissions and underlying microbial processes during the maize growing season. <i>Soil Biology and Biochemistry</i> , 2018, 122, 81-90.	8.8	52
31	Long-term crop rotation and tillage effects on soil greenhouse gas emissions and crop production in Illinois, USA. <i>Agriculture, Ecosystems and Environment</i> , 2018, 261, 62-70.	5.3	96
32	The adaptive capacity of maize-based conservation agriculture systems to climate stress in tropical and subtropical environments: A meta-regression of yields. <i>Agriculture, Ecosystems and Environment</i> , 2018, 251, 194-202.	5.3	149
33	Population and community structure shifts of ammonia oxidizers after four-year successive biochar application to agricultural acidic and alkaline soils. <i>Science of the Total Environment</i> , 2018, 619-620, 1105-1115.	8.0	38
34	Soil N ₂ O emissions as affected by long-term residue removal and no-till practices in continuous corn. <i>GCB Bioenergy</i> , 2018, 10, 972-985.	5.6	14
35	Simulating nitrogen management impacts on maize production in the U.S. Midwest. <i>PLoS ONE</i> , 2018, 13, e0201825.	2.5	13
36	Enhanced Efficiency Fertilizer Impacts on Yield-Scaled Nitrous Oxide Emissions in Maize. <i>Soil Science Society of America Journal</i> , 2018, 82, 1469-1481.	2.2	19

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37	Tillage and Fertilizer Management Effects on Phosphorus Runoff from Minimal Slope Fields. <i>Journal of Environmental Quality</i> , 2018, 47, 462-470.	2.0	13
38	Winter legume-rice rotations can reduce nitrogen pollution and carbon footprint while maintaining net ecosystem economic benefits. <i>Journal of Cleaner Production</i> , 2018, 195, 289-300.	9.3	69
39	Linking Nitrogen Losses With Crop Productivity in Maize Agroecosystems. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	3.9	18
40	Exploring the Relationships between Greenhouse Gas Emissions, Yields, and Soil Properties in Cropping Systems. <i>Agriculture (Switzerland)</i> , 2018, 8, 62.	3.1	15
41	Potential Nitrogen Losses in Relation to Spatially Distinct Soil Management History and Biochar Addition. <i>Journal of Environmental Quality</i> , 2018, 47, 62-69.	2.0	3
42	Robust spatial frameworks for leveraging research on sustainable crop intensification. <i>Global Food Security</i> , 2017, 14, 18-22.	8.1	14
43	Nitrogen rate strategies for reducing yield-scaled nitrous oxide emissions in maize. <i>Environmental Research Letters</i> , 2017, 12, 124006.	5.2	16
44	A Vision for Incorporating Environmental Effects into Nitrogen Management Decision Support Tools for U.S. Maize Production. <i>Frontiers in Plant Science</i> , 2017, 8, 1270.	3.6	25
45	Comparison of Organic and Integrated Nutrient Management Strategies for Reducing Soil N ₂ O Emissions. <i>Sustainability</i> , 2017, 9, 510.	3.2	28
46	Tile Drainage Nitrate Losses and Corn Yield Response to Fall and Spring Nitrogen Management. <i>Journal of Environmental Quality</i> , 2017, 46, 1057-1064.	2.0	21
47	First-Season Crop Yield Response to Organic Soil Amendments: A Meta-Analysis. <i>Agronomy Journal</i> , 2017, 109, 1210-1217.	1.8	27
48	Sustainability of rice intensification in Uruguay from 1993 to 2013. <i>Global Food Security</i> , 2016, 9, 10-18.	8.1	37
49	Can crop simulation models be used to predict local to regional maize yields and total production in the U.S. Corn Belt?. <i>Field Crops Research</i> , 2016, 192, 1-12.	5.1	67
50	Assessment of drainage nitrogen losses on a yield-scaled basis. <i>Field Crops Research</i> , 2016, 199, 156-166.	5.1	55
51	Methane and Nitrous Oxide Emissions from Flooded Rice Systems following the End-of-Season Drain. <i>Journal of Environmental Quality</i> , 2015, 44, 1071-1079.	2.0	29
52	When does no-till yield more? A global meta-analysis. <i>Field Crops Research</i> , 2015, 183, 156-168.	5.1	538
53	Nitrogen fertilization reduces yield declines following no-till adoption. <i>Field Crops Research</i> , 2015, 183, 204-210.	5.1	69
54	Productivity limits and potentials of the principles of conservation agriculture. <i>Nature</i> , 2015, 517, 365-368.	27.8	1,005

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55	Nitrogen Management and Methane Emissions in Direct-Seeded Rice Systems. <i>Agronomy Journal</i> , 2014, 106, 968-980.	1.8	23
56	Optimizing rice yields while minimizing yield-scaled global warming potential. <i>Global Change Biology</i> , 2014, 20, 1382-1393.	9.5	109
57	Yield-scaled global warming potential of annual nitrous oxide and methane emissions from continuously flooded rice in response to nitrogen input. <i>Agriculture, Ecosystems and Environment</i> , 2013, 177, 10-20.	5.3	133
58	Optimal Fertilizer Nitrogen Rates and Yield-Scaled Global Warming Potential in Drill Seeded Rice. <i>Journal of Environmental Quality</i> , 2013, 42, 1623-1634.	2.0	68
59	An agronomic assessment of greenhouse gas emissions from major cereal crops. <i>Global Change Biology</i> , 2012, 18, 194-209.	9.5	499
60	Fertilizer management practices and greenhouse gas emissions from rice systems: A quantitative review and analysis. <i>Field Crops Research</i> , 2012, 135, 10-21.	5.1	361
61	Agronomic productivity and nitrogen requirements of alternative tillage and crop establishment systems for improved weed control in direct-seeded rice. <i>Field Crops Research</i> , 2012, 130, 128-137.	5.1	43
62	Irrigated rice rotations affect yield and soil organic carbon sequestration in temperate South America. <i>Agronomy Journal</i> , 0, , .	1.8	5