

Bruce A Linquist

List of Publications by Citations

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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.

66

papers

3,803

citations

26

h-index

61

g-index

69

ext. papers

4,577

ext. citations

5.5

avg, IF

5.58

L-index

#	Paper	IF	Citations
66	Productivity limits and potentials of the principles of conservation agriculture. <i>Nature</i> , 2015 , 517, 365-8	50.4	716
65	An agronomic assessment of greenhouse gas emissions from major cereal crops. <i>Global Change Biology</i> , 2012 , 18, 194-209	11.4	396
64	Rice yields and water use under alternate wetting and drying irrigation: A meta-analysis. <i>Field Crops Research</i> , 2017 , 203, 173-180	5.5	268
63	Climate, duration, and N placement determine N ₂ O emissions in reduced tillage systems: a meta-analysis. <i>Global Change Biology</i> , 2013 , 19, 33-44	11.4	264
62	Fertilizer management practices and greenhouse gas emissions from rice systems: A quantitative review and analysis. <i>Field Crops Research</i> , 2012 , 135, 10-21	5.5	261
61	Reducing greenhouse gas emissions, water use, and grain arsenic levels in rice systems. <i>Global Change Biology</i> , 2015 , 21, 407-17	11.4	209
60	Enhanced efficiency nitrogen fertilizers for rice systems: Meta-analysis of yield and nitrogen uptake. <i>Field Crops Research</i> , 2013 , 154, 246-254	5.5	139
59	Rice Yield and Nitrogen Utilization Efficiency under Alternative Straw Management Practices. <i>Agronomy Journal</i> , 2000 , 92, 1096-1103	2.2	114
58	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	5.7	102
57	Alternate wetting and drying in high yielding direct-seeded rice systems accomplishes multiple environmental and agronomic objectives. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 229, 30-39	5.7	85
56	Optimizing rice yields while minimizing yield-scaled global warming potential. <i>Global Change Biology</i> , 2014 , 20, 1382-93	11.4	83
55	Higher yields and lower methane emissions with new rice cultivars. <i>Global Change Biology</i> , 2017 , 23, 4728-4738	11.4	78
54	Impacts of variable soil drying in alternate wetting and drying rice systems on yields, grain arsenic concentration and soil moisture dynamics. <i>Field Crops Research</i> , 2018 , 222, 101-110	5.5	66
53	Life cycle greenhouse gas emissions in California rice production. <i>Field Crops Research</i> , 2014 , 169, 89-98	5.5	60
52	Alternate Wetting and Drying of Rice Reduced CH ₄ Emissions but Triggered N ₂ O Peaks in a Clayey Soil of Central Italy. <i>Pedosphere</i> , 2016 , 26, 533-548	5	58
51	Water balances and evapotranspiration in water- and dry-seeded rice systems. <i>Irrigation Science</i> , 2015 , 33, 375-385	3.1	53
50	Optimal fertilizer nitrogen rates and yield-scaled global warming potential in drill seeded rice. <i>Journal of Environmental Quality</i> , 2013 , 42, 1623-34	3.4	53

49	Water management to mitigate the global warming potential of rice systems: A global meta-analysis. <i>Field Crops Research</i> , 2019 , 234, 47-54	5.5	52
48	Winter Straw and Water Management Effects on Soil Nitrogen Dynamics in California Rice Systems. <i>Agronomy Journal</i> , 2006 , 98, 1050-1059	2.2	51
47	Assessing fertilizer N placement on CH ₄ and N ₂ O emissions in irrigated rice systems. <i>Geoderma</i> , 2016 , 266, 40-45	6.7	48
46	Seasonal methane and nitrous oxide emissions of several rice cultivars in direct-seeded systems. <i>Journal of Environmental Quality</i> , 2015 , 44, 103-14	3.4	38
45	The Economic Viability of Alternative Wetting and Drying Irrigation in Arkansas Rice Production. <i>Agronomy Journal</i> , 2015 , 107, 579-587	2.2	35
44	Water quality in rice-growing watersheds in a Mediterranean climate. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 144, 290-301	5.7	33
43	Impact of Alternate Wetting and Drying Irrigation on Arsenic Uptake and Speciation in Flooded Rice Systems. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 272, 188-198	5.7	33
42	Irrigation management for arsenic mitigation in rice grain: Timing and severity of a single soil drying. <i>Science of the Total Environment</i> , 2019 , 649, 300-307	10.2	30
41	Aerobic rice system improves water productivity, nitrogen recovery and crop performance in Brazilian weathered lowland soil. <i>Field Crops Research</i> , 2018 , 218, 59-68	5.5	26
40	Assessing the Necessity of Surface-Applied Preplant Nitrogen Fertilizer in Rice Systems. <i>Agronomy Journal</i> , 2009 , 101, 906-915	2.2	26
39	Soil order and management practices control soil phosphorus fractions in managed wetland ecosystems. <i>Nutrient Cycling in Agroecosystems</i> , 2011 , 90, 51-62	3.3	24
38	Alternate Wetting and Drying Decreases Methylmercury in Flooded Rice (<i>Oryza sativa</i>) Systems. <i>Soil Science Society of America Journal</i> , 2018 , 82, 115-125	2.5	23
37	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. <i>Journal of Environmental Quality</i> , 2018 , 47, 395-409	3.4	23
36	Nitrate leaching in californian rice fields: a field- and regional-scale assessment. <i>Journal of Environmental Quality</i> , 2014 , 43, 881-94	3.4	22
35	Seasonal losses of dissolved organic carbon and total dissolved solids from rice production systems in northern California. <i>Journal of Environmental Quality</i> , 2010 , 39, 304-13	3.4	22
34	Underlying causes of yield spatial variability and potential for precision management in rice systems. <i>Precision Agriculture</i> , 2013 , 14, 512-540	5.6	21
33	Methane and Nitrous Oxide Emissions from Flooded Rice Systems following the End-of-Season Drain. <i>Journal of Environmental Quality</i> , 2015 , 44, 1071-9	3.4	21
32	Benefits of organic residues and chemical fertilizer to productivity of rain-fed lowland rice and to soil nutrient balances. <i>Nutrient Cycling in Agroecosystems</i> , 2007 , 79, 59-72	3.3	20

31	Indigenous Nitrogen Supply of Rice Is Predicted by Soil Organic Carbon. <i>Soil Science Society of America Journal</i> , 2015 , 79, 569-576	2.5	19
30	Nitrogen Management and Methane Emissions in Direct-Seeded Rice Systems. <i>Agronomy Journal</i> , 2014 , 106, 968-980	2.2	17
29	Nitrogen Availability from Poultry Litter and Pelletized Organic Amendments for Organic Rice Production. <i>Agronomy Journal</i> , 2011 , 103, 1284-1291	2.2	17
28	A soil carbon proxy to predict CH ₄ and N ₂ O emissions from rewetted agricultural peatlands. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 220, 64-75	5.7	15
27	Spatio-temporal salinity dynamics and yield response of rice in water-seeded rice fields. <i>Agricultural Water Management</i> , 2018 , 195, 37-46	5.9	14
26	Rice field drainage affects nitrogen dynamics and management. <i>California Agriculture</i> , 2011 , 65, 80-84	1.1	13
25	Managing phosphorus fertilizer to reduce algae, maintain water quality, and sustain yields in water-seeded rice. <i>Field Crops Research</i> , 2012 , 131, 81-87	5.5	12
24	Greenhouse Gases from Irrigated Rice Systems under Varying Severity of Alternate-Wetting and Drying Irrigation. <i>Soil Science Society of America Journal</i> , 2019 , 83, 1533-1541	2.5	11
23	Nutrients and sediments in surface runoff water from direct-seeded rice fields: implications for nutrient budgets and water quality. <i>Journal of Environmental Quality</i> , 2014 , 43, 1725-35	3.4	11
22	Quantifying On-Farm Nitrous Oxide Emission Reductions in Food Supply Chains. <i>Earth's Future</i> , 2020 , 8, e2020EF001504	7.9	11
21	Estimating annual soil carbon loss in agricultural peatland soils using a nitrogen budget approach. <i>PLoS ONE</i> , 2015 , 10, e0121432	3.7	10
20	Re-Evaluating Diagnostic Phosphorus Tests for Rice Systems Based on Soil Phosphorus Fractions and Field Level Budgets. <i>Agronomy Journal</i> , 2011 , 103, 501-508	2.2	10
19	Use of Normalized Difference Vegetation Index to Assess N Status and Predict Grain Yield in Rice. <i>Agronomy Journal</i> , 2019 , 111, 2889-2898	2.2	9
18	Rice yield improvements through plant breeding are offset by inherent yield declines over time. <i>Field Crops Research</i> , 2018 , 222, 59-65	5.5	9
17	Water and air temperature impacts on rice (<i>Oryza sativa</i>) phenology. <i>Paddy and Water Environment</i> , 2018 , 16, 467-476	1.6	9
16	Modeling methane and nitrous oxide emissions from direct-seeded rice systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 2011-2035	3.7	9
15	Nitrogen and Potassium Fertility Impacts on Aggregate Sheath Spot Disease and Yields of Rice. <i>Plant Production Science</i> , 2008 , 11, 260-267	2.4	9
14	Sustainable intensification for a larger global rice bowl. <i>Nature Communications</i> , 2021 , 12, 7163	17.4	9

13	Weed Community Dynamics and System Productivity in Alternative Irrigation Systems in California Rice. <i>Weed Science</i> , 2017 , 65, 177-188	2	8
12	Residual Effects of Fertilization History Increase Nitrous Oxide Emissions from Zero-N Controls: Implications for Estimating Fertilizer-Induced Emission Factors. <i>Journal of Environmental Quality</i> , 2016 , 45, 1501-1508	3.4	7
11	The Contribution of Rice Agriculture to Methylmercury in Surface Waters: A Review of Data from the Sacramento Valley, California. <i>Journal of Environmental Quality</i> , 2017 , 46, 133-142	3.4	5
10	Reducing rice field algae and cyanobacteria abundance by altering phosphorus fertilizer applications. <i>Paddy and Water Environment</i> , 2014 , 12, 147-154	1.6	5
9	Fertilizer source and placement influence ammonia volatilization losses from water-seeded rice systems. <i>Soil Science Society of America Journal</i> , 2020 , 84, 784-797	2.5	3
8	The magnitude and variability of lateral seepage in California rice fields. <i>Journal of Hydrology</i> , 2019 , 574, 202-210	6	2
7	Methylmercury Dynamics in Upper Sacramento Valley Rice Fields with Low Background Soil Mercury Levels. <i>Journal of Environmental Quality</i> , 2018 , 47, 830-838	3.4	2
6	Midseason application of organic fertilizer improves yield and nitrogen uptake in rice. <i>Agronomy Journal</i> , 2020 , 112, 441-449	2.2	1
5	The contribution of percolation to water balances in water-seeded rice systems. <i>Agricultural Water Management</i> , 2021 , 243, 106445	5.9	1
4	Single midseason drainage events decrease global warming potential without sacrificing grain yield in flooded rice systems. <i>Field Crops Research</i> , 2022 , 276, 108312	5.5	0
3	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	5.7	0
2	Mitigating the accumulation of arsenic and cadmium in rice grain: A quantitative review of the role of water management. <i>Science of the Total Environment</i> , 2022 , 839, 156245	10.2	0
1	Assessment of potassium soil balances and availability in high yielding rice systems. <i>Nutrient Cycling in Agroecosystems</i> , ¹	3.3	