

# Bruce A Linquist

## List of Publications by Year in Descending Order

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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	Single midseason drainage events decrease global warming potential without sacrificing grain yield in flooded rice systems. <i>Field Crops Research</i> , <b>2022</b> , 276, 108312	5.5	0
65	Quantifying N leaching losses as a function of N balance: A path to sustainable food supply chains. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 324, 107714	5.7	0
64	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> , <b>2022</b> , 839, 156245	10.2	0
63	The contribution of percolation to water balances in water-seeded rice systems. <i>Agricultural Water Management</i> , <b>2021</b> , 243, 106445	5.9	1
62	Sustainable intensification for a larger global rice bowl. <i>Nature Communications</i> , <b>2021</b> , 12, 7163	17.4	9
61	Fertilizer source and placement influence ammonia volatilization losses from water-seeded rice systems. <i>Soil Science Society of America Journal</i> , <b>2020</b> , 84, 784-797	2.5	3
60	Midseason application of organic fertilizer improves yield and nitrogen uptake in rice. <i>Agronomy Journal</i> , <b>2020</b> , 112, 441-449	2.2	1
59	Quantifying On-Farm Nitrous Oxide Emission Reductions in Food Supply Chains. <i>Earths Future</i> , <b>2020</b> , 8, e2020EF001504	7.9	11
58	Use of Normalized Difference Vegetation Index to Assess N Status and Predict Grain Yield in Rice. <i>Agronomy Journal</i> , <b>2019</b> , 111, 2889-2898	2.2	9
57	The magnitude and variability of lateral seepage in California rice fields. <i>Journal of Hydrology</i> , <b>2019</b> , 574, 202-210	6	2
56	Water management to mitigate the global warming potential of rice systems: A global meta-analysis. <i>Field Crops Research</i> , <b>2019</b> , 234, 47-54	5.5	52
55	Greenhouse Gases from Irrigated Rice Systems under Varying Severity of Alternate-Wetting and Drying Irrigation. <i>Soil Science Society of America Journal</i> , <b>2019</b> , 83, 1533-1541	2.5	11
54	Irrigation management for arsenic mitigation in rice grain: Timing and severity of a single soil drying. <i>Science of the Total Environment</i> , <b>2019</b> , 649, 300-307	10.2	30
53	Impact of Alternate Wetting and Drying Irrigation on Arsenic Uptake and Speciation in Flooded Rice Systems. <i>Agriculture, Ecosystems and Environment</i> , <b>2019</b> , 272, 188-198	5.7	33
52	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> , <b>2018</b> , 222, 101-110	5.5	66
51	Aerobic rice system improves water productivity, nitrogen recovery and crop performance in Brazilian weathered lowland soil. <i>Field Crops Research</i> , <b>2018</b> , 218, 59-68	5.5	26
50	Rice yield improvements through plant breeding are offset by inherent yield declines over time. <i>Field Crops Research</i> , <b>2018</b> , 222, 59-65	5.5	9

49	Water and air temperature impacts on rice ( <i>Oryza sativa</i> ) phenology. <i>Paddy and Water Environment</i> , <b>2018</b> , 16, 467-476	1.6	9
48	Spatio-temporal salinity dynamics and yield response of rice in water-seeded rice fields. <i>Agricultural Water Management</i> , <b>2018</b> , 195, 37-46	5.9	14
47	Alternate Wetting and Drying Decreases Methylmercury in Flooded Rice ( <i>Oryza sativa</i> ) Systems. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 115-125	2.5	23
46	Methylmercury Dynamics in Upper Sacramento Valley Rice Fields with Low Background Soil Mercury Levels. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 830-838	3.4	2
45	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 395-409	3.4	23
44	Rice yields and water use under alternate wetting and drying irrigation: A meta-analysis. <i>Field Crops Research</i> , <b>2017</b> , 203, 173-180	5.5	268
43	Higher yields and lower methane emissions with new rice cultivars. <i>Global Change Biology</i> , <b>2017</b> , 23, 4728-4738	4.7	78
42	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> , <b>2017</b> , 46, 133-142	3.4	5
41	Weed Community Dynamics and System Productivity in Alternative Irrigation Systems in California Rice. <i>Weed Science</i> , <b>2017</b> , 65, 177-188	2	8
40	Alternate Wetting and Drying of Rice Reduced CH <sub>4</sub> Emissions but Triggered N <sub>2</sub> O Peaks in a Clayey Soil of Central Italy. <i>Pedosphere</i> , <b>2016</b> , 26, 533-548	5	58
39	Alternate wetting and drying in high yielding direct-seeded rice systems accomplishes multiple environmental and agronomic objectives. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 229, 30-39	5.7	85
38	A soil carbon proxy to predict CH <sub>4</sub> and N <sub>2</sub> O emissions from rewetted agricultural peatlands. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 220, 64-75	5.7	15
37	Assessing fertilizer N placement on CH <sub>4</sub> and N <sub>2</sub> O emissions in irrigated rice systems. <i>Geoderma</i> , <b>2016</b> , 266, 40-45	6.7	48
36	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> , <b>2016</b> , 45, 1501-1508	3.4	7
35	Water balances and evapotranspiration in water- and dry-seeded rice systems. <i>Irrigation Science</i> , <b>2015</b> , 33, 375-385	3.1	53
34	Productivity limits and potentials of the principles of conservation agriculture. <i>Nature</i> , <b>2015</b> , 517, 365-8	50.4	716
33	Modeling methane and nitrous oxide emissions from direct-seeded rice systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 2011-2035	3.7	9
32	Reducing greenhouse gas emissions, water use, and grain arsenic levels in rice systems. <i>Global Change Biology</i> , <b>2015</b> , 21, 407-17	11.4	209

31	Indigenous Nitrogen Supply of Rice Is Predicted by Soil Organic Carbon. <i>Soil Science Society of America Journal</i> , <b>2015</b> , 79, 569-576	2.5	19
30	The Economic Viability of Alternative Wetting and Drying Irrigation in Arkansas Rice Production. <i>Agronomy Journal</i> , <b>2015</b> , 107, 579-587	2.2	35
29	Methane and Nitrous Oxide Emissions from Flooded Rice Systems following the End-of-Season Drain. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 1071-9	3.4	21
28	Estimating annual soil carbon loss in agricultural peatland soils using a nitrogen budget approach. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121432	3.7	10
27	Seasonal methane and nitrous oxide emissions of several rice cultivars in direct-seeded systems. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 103-14	3.4	38
26	Optimizing rice yields while minimizing yield-scaled global warming potential. <i>Global Change Biology</i> , <b>2014</b> , 20, 1382-93	11.4	83
25	Life cycle greenhouse gas emissions in California rice production. <i>Field Crops Research</i> , <b>2014</b> , 169, 89-98	5.5	60
24	Nitrate leaching in californian rice fields: a field- and regional-scale assessment. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 881-94	3.4	22
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> , <b>2014</b> , 43, 1725-35	3.4	11
22	Nitrogen Management and Methane Emissions in Direct-Seeded Rice Systems. <i>Agronomy Journal</i> , <b>2014</b> , 106, 968-980	2.2	17
21	Reducing rice field algae and cyanobacteria abundance by altering phosphorus fertilizer applications. <i>Paddy and Water Environment</i> , <b>2014</b> , 12, 147-154	1.6	5
20	Climate, duration, and N placement determine N <sub>2</sub> O emissions in reduced tillage systems: a meta-analysis. <i>Global Change Biology</i> , <b>2013</b> , 19, 33-44	11.4	264
19	Underlying causes of yield spatial variability and potential for precision management in rice systems. <i>Precision Agriculture</i> , <b>2013</b> , 14, 512-540	5.6	21
18	Enhanced efficiency nitrogen fertilizers for rice systems: Meta-analysis of yield and nitrogen uptake. <i>Field Crops Research</i> , <b>2013</b> , 154, 246-254	5.5	139
17	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> , <b>2013</b> , 177, 10-20	5.7	102
16	Optimal fertilizer nitrogen rates and yield-scaled global warming potential in drill seeded rice. <i>Journal of Environmental Quality</i> , <b>2013</b> , 42, 1623-34	3.4	53
15	An agronomic assessment of greenhouse gas emissions from major cereal crops. <i>Global Change Biology</i> , <b>2012</b> , 18, 194-209	11.4	396
14	Fertilizer management practices and greenhouse gas emissions from rice systems: A quantitative review and analysis. <i>Field Crops Research</i> , <b>2012</b> , 135, 10-21	5.5	261

13	Managing phosphorus fertilizer to reduce algae, maintain water quality, and sustain yields in water-seeded rice. <i>Field Crops Research</i> , <b>2012</b> , 131, 81-87	5.5	12
12	Re-Evaluating Diagnostic Phosphorus Tests for Rice Systems Based on Soil Phosphorus Fractions and Field Level Budgets. <i>Agronomy Journal</i> , <b>2011</b> , 103, 501-508	2.2	10
11	Nitrogen Availability from Poultry Litter and Pelletized Organic Amendments for Organic Rice Production. <i>Agronomy Journal</i> , <b>2011</b> , 103, 1284-1291	2.2	17
10	Water quality in rice-growing watersheds in a Mediterranean climate. <i>Agriculture, Ecosystems and Environment</i> , <b>2011</b> , 144, 290-301	5.7	33
9	Soil order and management practices control soil phosphorus fractions in managed wetland ecosystems. <i>Nutrient Cycling in Agroecosystems</i> , <b>2011</b> , 90, 51-62	3.3	24
8	Rice field drainage affects nitrogen dynamics and management. <i>California Agriculture</i> , <b>2011</b> , 65, 80-84	1.1	13
7	Seasonal losses of dissolved organic carbon and total dissolved solids from rice production systems in northern California. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 304-13	3.4	22
6	Assessing the Necessity of Surface-Applied Preplant Nitrogen Fertilizer in Rice Systems. <i>Agronomy Journal</i> , <b>2009</b> , 101, 906-915	2.2	26
5	Nitrogen and Potassium Fertility Impacts on Aggregate Sheath Spot Disease and Yields of Rice. <i>Plant Production Science</i> , <b>2008</b> , 11, 260-267	2.4	9
4	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> , <b>2007</b> , 79, 59-72	3.3	20
3	Winter Straw and Water Management Effects on Soil Nitrogen Dynamics in California Rice Systems. <i>Agronomy Journal</i> , <b>2006</b> , 98, 1050-1059	2.2	51
2	Rice Yield and Nitrogen Utilization Efficiency under Alternative Straw Management Practices. <i>Agronomy Journal</i> , <b>2000</b> , 92, 1096-1103	2.2	114
1	Assessment of potassium soil balances and availability in high yielding rice systems. <i>Nutrient Cycling in Agroecosystems</i> ,1	3.3	