

Achim Dobermann

List of Publications by Year in descending order

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99
papers

11,970
citations

28242

55
h-index

37183

96
g-index

101
all docs

101
docs citations

101
times ranked

9773
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen and the future of agriculture: 20 years on. <i>Ambio</i> , 2022, 51, 17-24.	2.8	38
2	What is a plant nutrient? Changing definitions to advance science and innovation in plant nutrition. <i>Plant and Soil</i> , 2022, 476, 11-23.	1.8	38
3	Southeast Asia must narrow down the yield gap to continue to be a major rice bowl. <i>Nature Food</i> , 2022, 3, 217-226.	6.2	45
4	Responsible plant nutrition: A new paradigm to support food system transformation. <i>Global Food Security</i> , 2022, 33, 100636.	4.0	28
5	Used Wisely, Fertilizers Will Feed Africa and Protect its Unique Biodiversity. , 2022, 1, .		0
6	African soil properties and nutrients mapped at 30 m spatial resolution using two-scale ensemble machine learning. <i>Scientific Reports</i> , 2021, 11, 6130.	1.6	103
7	The potential for soybean to diversify the production of plant-based protein in the UK. <i>Science of the Total Environment</i> , 2021, 767, 144903.	3.9	17
8	All hat and no cattle: Accountability following the UN food systems summit. <i>Global Food Security</i> , 2021, 30, 100569.	4.0	11
9	Co-benefits of nutrient management tailored to smallholder agriculture. <i>Global Food Security</i> , 2021, 30, 100570.	4.0	19
10	The nitrogen economy of rice-livestock systems in Uruguay. <i>Global Food Security</i> , 2021, 30, 100566.	4.0	11
11	Steady agronomic and genetic interventions are essential for sustaining productivity in intensive rice cropping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
12	A research vision for food systems in the 2020s: Defying the status quo. <i>Global Food Security</i> , 2020, 26, 100397.	4.0	78
13	Sustainable intensification of agriculture in sub-Saharan Africa: first things first. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 376.	0.9	17
14	Exploring Future Food Provision Scenarios for China. <i>Environmental Science & Technology</i> , 2019, 53, 1385-1393.	4.6	62
15	Agronomic and environmental causes of yield and nitrogen use efficiency gaps in Chinese rice farming systems. <i>European Journal of Agronomy</i> , 2018, 93, 40-49.	1.9	47
16	Agronomic improvements can make future cereal systems in South Asia far more productive and result in a lower environmental footprint. <i>Global Change Biology</i> , 2016, 22, 1054-1074.	4.2	70
17	Translating the Sustainable Development Goals into action: A participatory backcasting approach for developing national agricultural transformation pathways. <i>Global Food Security</i> , 2016, 10, 71-79.	4.0	77
18	Growing innovations for the bioeconomy. <i>Nature Plants</i> , 2015, 1, 15193.	4.7	12

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19	Exploiting Co-Benefits of Increased Rice Production and Reduced Greenhouse Gas Emission through Optimized Crop and Soil Management. PLoS ONE, 2015, 10, e0140023.	1.1	15
20	Educating and Training a Workforce for Nutrition in a Post-2015 World. Advances in Nutrition, 2015, 6, 639-647.	2.9	36
21	Closing yield gaps in maize production in Southeast Asia through site-specific nutrient management. Field Crops Research, 2014, 156, 219-230.	2.3	66
22	Comparing apples with oranges. Nature, 2012, 485, 176-177.	13.7	35
23	Rice in cropping systems—Modelling transitions between flooded and non-flooded soil environments. European Journal of Agronomy, 2012, 39, 9-24.	1.9	86
24	Nitrogen Response and Economics for Irrigated Corn in Nebraska. Agronomy Journal, 2011, 103, 67-75.	0.9	35
25	Nitrogen Use Efficiency of Irrigated Corn for Three Cropping Systems in Nebraska. Agronomy Journal, 2011, 103, 76-84.	0.9	65
26	MaizeN: A Decision Tool for Nitrogen Management in Maize. Agronomy Journal, 2011, 103, 1276-1283.	0.9	67
27	Improving Nitrogen Fertilization in Rice by Site-Specific N Management. , 2011, , 943-952.		9
28	Evaluation of NASA Satellite- and Model-Derived Weather Data for Simulation of Maize Yield Potential in China. Agronomy Journal, 2010, 102, 9-16.	0.9	109
29	Improving nitrogen fertilization in rice by sitespecific N management. A review. Agronomy for Sustainable Development, 2010, 30, 649-656.	2.2	436
30	Estimating maize nutrient uptake requirements. Field Crops Research, 2010, 118, 158-168.	2.3	163
31	Simulation of soybean growth and yield in near-optimal growth conditions. Field Crops Research, 2010, 119, 161-174.	2.3	92
32	Rice yields in tropical/subtropical Asia exhibit large but opposing sensitivities to minimum and maximum temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14562-14567.	3.3	495
33	Growth and Nitrogen Fixation in High-Yielding Soybean: Impact of Nitrogen Fertilization. Agronomy Journal, 2009, 101, 958-970.	0.9	91
34	Agronomic and economic evaluation of site-specific nutrient management for irrigated wheat in northwest India. Nutrient Cycling in Agroecosystems, 2008, 82, 15-31.	1.1	37
35	Agitated soil measurement method for integrated on-the-go mapping of soil pH, potassium and nitrate contents. Computers and Electronics in Agriculture, 2008, 60, 212-225.	3.7	34
36	Nitrogen uptake, fixation and response to fertilizer N in soybeans: A review. Field Crops Research, 2008, 108, 1-13.	2.3	723

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37	Leaf area index simulation in soybean grown under near-optimal conditions. <i>Field Crops Research</i> , 2008, 108, 82-92.	2.3	79
38	Soybean Sowing Date: The Vegetative, Reproductive, and Agronomic Impacts. <i>Crop Science</i> , 2008, 48, 727-740.	0.8	138
39	Understanding and modeling the effect of temperature and daylength on soybean phenology under high-yield conditions. <i>Field Crops Research</i> , 2007, 100, 257-271.	2.3	197
40	Performance of Site-Specific Nutrient Management for Irrigated, Transplanted Rice in Northwest India. <i>Agronomy Journal</i> , 2007, 99, 1436-1447.	0.9	37
41	Net Biome Productivity of Irrigated and Rainfed Maize–Soybean Rotations: Modeling vs. Measurements. <i>Agronomy Journal</i> , 2007, 99, 1404-1423.	0.9	64
42	Nitrogen Response of Grain Sorghum in Rotation with Soybean. <i>Agronomy Journal</i> , 2007, 99, 808-813.	0.9	19
43	Soil greenhouse gas fluxes and global warming potential in four high-yielding maize systems. <i>Global Change Biology</i> , 2007, 13, 1972-1988.	4.2	205
44	Comment on “Carbon budget of mature no-till ecosystem in North Central Region of the United States”. <i>Agricultural and Forest Meteorology</i> , 2006, 136, 83-84.	1.9	14
45	Integrated assessment of cropping systems in the Eastern Indo-Gangetic plain. <i>Field Crops Research</i> , 2006, 99, 35-47.	2.3	60
46	Fine-resolution mapping of soil organic carbon based on multivariate secondary data. <i>Geoderma</i> , 2006, 132, 471-489.	2.3	150
47	Sampling optimization based on secondary information and its utilization in soil carbon mapping. <i>Geoderma</i> , 2006, 133, 345-362.	2.3	69
48	An algorithm for spatially constrained classification of categorical and continuous soil properties. <i>Geoderma</i> , 2006, 136, 504-523.	2.3	71
49	Features, Applications, and Limitations of the Hybrid Maize Simulation Model. <i>Agronomy Journal</i> , 2006, 98, 737-748.	0.9	70
50	Soil Electrical Conductivity and Water Content Affect Nitrous Oxide and Carbon Dioxide Emissions in Intensively Managed Soils. <i>Journal of Environmental Quality</i> , 2006, 35, 1999-2010.	1.0	119
51	Comparison of partial and complete soil K budgets under intensive rice cropping in the Mekong Delta, Vietnam. <i>Agriculture, Ecosystems and Environment</i> , 2006, 116, 121-131.	2.5	37
52	Changes in soil phosphorus fractions in a calcareous paddy soil under intensive rice cropping. <i>Plant and Soil</i> , 2006, 288, 141-154.	1.8	47
53	Anthropogenic Drivers of Ecosystem Change: an Overview. <i>Ecology and Society</i> , 2006, 11, .	1.0	229
54	Maize Radiation Use Efficiency under Optimal Growth Conditions. <i>Agronomy Journal</i> , 2005, 97, 72-78.	0.9	221

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55	Direct measurement of soil chemical properties on-the-go using ion-selective electrodes. Computers and Electronics in Agriculture, 2005, 48, 272-294.	3.7	94
56	Processing of Yield Map Data. Precision Agriculture, 2005, 6, 193-212.	3.1	44
57	Annual carbon dioxide exchange in irrigated and rainfed maize-based agroecosystems. Agricultural and Forest Meteorology, 2005, 131, 77-96.	1.9	449
58	Cereal area and nitrogen use efficiency are drivers of future nitrogen fertilizer consumption. Science in China Series C: Life Sciences, 2005, 48, 745-758.	1.3	39
59	Cereal area and nitrogen use efficiency are drivers of future nitrogen fertilizer consumption. Science in China Series C: Life Sciences, 2005, 48 Spec No, 745-58.	1.3	15
60	Identification of Relationships between Cotton Yield, Quality, and Soil Properties. Agronomy Journal, 2004, 96, 1588-1597.	0.9	37
61	Hybrid-maize" a maize simulation model that combines two crop modeling approaches. Field Crops Research, 2004, 87, 131-154.	2.3	314
62	A critical assessment of the system of rice intensification (SRI). Agricultural Systems, 2004, 79, 261-281.	3.2	183
63	Screening Yield Monitor Data Improves Grain Yield Maps. Agronomy Journal, 2004, 96, 1091-1102.	0.9	61
64	Cropping Systems: Irrigated Continuous Rice Systems of Tropical and Subtropical Asia. , 2004, , 349-354.		1
65	Do organic amendments improve yield trends and profitability in intensive rice systems?. Field Crops Research, 2003, 83, 191-213.	2.3	146
66	MEETINGCEREALDEMANDWHILEPROTECTINGNATURALRESOURCES ANDIMPROVINGENVIRONMENTALQUALITY. Annual Review of Environment and Resources, 2003, 28, 315-358.	5.6	774
67	Soil Fertility and Indigenous Nutrient Supply in Irrigated Rice Domains of Asia. Agronomy Journal, 2003, 95, 913-923.	0.9	90
68	Estimating Indigenous Nutrient Supplies for Site-specific Nutrient Management in Irrigated Rice. Agronomy Journal, 2003, 95, 924-935.	0.9	60
69	Classification of Crop Yield Variability in Irrigated Production Fields. Agronomy Journal, 2003, 95, 1105-1120.	0.9	76
70	Creating Spatially Contiguous Yield Classes for Site-specific Management. Agronomy Journal, 2003, 95, 1121-1131.	0.9	51
71	Phosphorus Fertilizer Effects on Soil Phosphorus Pools in Acid Upland Soils. Soil Science Society of America Journal, 2002, 66, 652-660.	1.2	44
72	Agroecosystems, Nitrogen-use Efficiency, and Nitrogen Management. Ambio, 2002, 31, 132-140.	2.8	1,251

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73	Site-specific nutrient management for intensive rice cropping systems in Asia. <i>Field Crops Research</i> , 2002, 74, 37-66.	2.3	365
74	Insufficient geographic characterization and analysis in the planning, execution and dissemination of agronomic research?. <i>Field Crops Research</i> , 2002, 76, 45-54.	2.3	20
75	Biosolids as Nitrogen Source for Irrigated Maize and Rainfed Sorghum. <i>Soil Science Society of America Journal</i> , 2002, 66, 531-543.	1.2	76
76	Title is missing!. <i>Plant and Soil</i> , 2002, 247, 153-175.	1.8	183
77	Biosolids as Nitrogen Source for Irrigated Maize and Rainfed Sorghum. <i>Soil Science Society of America Journal</i> , 2002, 66, 531.	1.2	27
78	Phosphorus Fertilizer Effects on Soil Phosphorus Pools in Acid Upland Soils. <i>Soil Science Society of America Journal</i> , 2002, 66, 652.	1.2	30
79	Performance of Site-specific Nutrient Management for Irrigated Rice in Southeast China. <i>Agronomy Journal</i> , 2001, 93, 869-878.	0.9	149
80	Reversal of Rice Yield Decline in a Long-term Continuous Cropping Experiment. <i>Agronomy Journal</i> , 2000, 92, 633-643.	0.9	166
81	How widespread are yield declines in long-term rice experiments in Asia?. <i>Field Crops Research</i> , 2000, 66, 175-193.	2.3	193
82	Mapping soil texture classes using field textuig, particle size distribution and local knowledge by both conventional and geostatistical methods. <i>European Journal of Soil Science</i> , 1999, 50, 457-479.	1.8	38
83	Internal nutrient efficiencies of irrigated lowland rice in tropical and subtropical Asia. <i>Field Crops Research</i> , 1999, 63, 113-138.	2.3	323
84	On-farm soil N supply and N nutrition in the rice-wheat system of Nepal and Bangladesh. <i>Field Crops Research</i> , 1999, 64, 273-286.	2.3	77
85	Management of phosphorus, potassium, and sulfur in intensive, irrigated lowland rice. <i>Field Crops Research</i> , 1998, 56, 113-138.	2.3	225
86	Opportunities for increased nitrogen-use efficiency from improved resource management in irrigated rice systems. <i>Field Crops Research</i> , 1998, 56, 7-39.	2.3	458
87	Nutritional physiology of the rice plants and productivity decline of irrigated rice systems in the tropics. <i>Soil Science and Plant Nutrition</i> , 1997, 43, 1101-1106.	0.8	27
88	Scale-Dependent Correlations among Soil Properties in Two Tropical Lowland Rice Fields. <i>Soil Science Society of America Journal</i> , 1997, 61, 1483-1496.	1.2	56
89	Fuzzy mapping of soil fertility – a case study on irrigated riceland in the Philippines. <i>Geoderma</i> , 1997, 77, 317-339.	2.3	56
90	Synthetic Ion-Exchange Resins: Soil and Environmental Studies. <i>Journal of Environmental Quality</i> , 1996, 25, 13-24.	1.0	141

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91	Fertilizer inputs, nutrient balance and soil nutrient supplying power in intensive, irrigated rice system. III. Phosphorus. Nutrient Cycling in Agroecosystems, 1996, 46, 111-125.	1.1	76
92	Soil organic matter and the indigenous nitrogen supply of intensive irrigated rice systems in the tropics. Plant and Soil, 1996, 182, 267-278.	1.8	126
93	Fertilizer inputs, nutrient balance, and soil nutrient-supplying power in intensive, irrigated rice systems. I. Potassium uptake and K balance. Nutrient Cycling in Agroecosystems, 1996, 46, 1-10.	1.1	139
94	How good is a reconnaissance soil map for agronomic purposes?. Soil Use and Management, 1996, 12, 33-43.	2.6	34
95	Spatial and Temporal Variability of Transplanted Rice at the Field Scale. Agronomy Journal, 1995, 87, 712-720.	0.9	25
96	Sources of soil variation in an acid Ultisol of the Philippines. Geoderma, 1995, 68, 173-191.	2.3	47
97	Nutrient adsorption kinetics of ion exchange resin capsules: A study with soils of international origin. Communications in Soil Science and Plant Analysis, 1994, 25, 1329-1353.	0.6	38
98	Factors causing field variation of direct-seeded flooded rice. Geoderma, 1994, 62, 125-150.	2.3	38
99	Avoiding a Rice Crisis: What Needs to Be Done?. Assa, Cssa and Sssa, 0, , 49-55.	0.6	0