

Bruno Basso

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.

170
papers

9,342
citations

47
h-index

93
g-index

182
ext. papers

11,334
ext. citations

5.8
avg, IF

6.25
L-index

#	Paper	IF	Citations
170	Rising temperatures reduce global wheat production. <i>Nature Climate Change</i> , 2015 , 5, 143-147	21.4	1048
169	Uncertainty in simulating wheat yields under climate change. <i>Nature Climate Change</i> , 2013 , 3, 827-832	21.4	827
168	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and pilot studies. <i>Agricultural and Forest Meteorology</i> , 2013 , 170, 166-182	5.8	573
167	How do various maize crop models vary in their responses to climate change factors?. <i>Global Change Biology</i> , 2014 , 20, 2301-20	11.4	407
166	Multimodel ensembles of wheat growth: many models are better than one. <i>Global Change Biology</i> , 2015 , 21, 911-25	11.4	292
165	Brief history of agricultural systems modeling. <i>Agricultural Systems</i> , 2017 , 155, 240-254	6.1	256
164	Similar estimates of temperature impacts on global wheat yield by three independent methods. <i>Nature Climate Change</i> , 2016 , 6, 1130-1136	21.4	233
163	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. <i>Agricultural Systems</i> , 2017 , 155, 269-288	6.1	188
162	Conceptual model of a future farm management information system. <i>Computers and Electronics in Agriculture</i> , 2010 , 72, 37-47	6.5	188
161	Examples of strategies to analyze spatial and temporal yield variability using crop models. <i>European Journal of Agronomy</i> , 2002 , 18, 141-158	5	180
160	Climate change impact and adaptation for wheat protein. <i>Global Change Biology</i> , 2019 , 25, 155-173	11.4	177
159	Evaluating environmental sensitivity at the basin scale through the use of geographic information systems and remotely sensed data: an example covering the Agri basin (Southern Italy). <i>Catena</i> , 2000 , 40, 19-35	5.8	168
158	Impact of compost, manure and inorganic fertilizer on nitrate leaching and yield for a 6-year maizealfalfa rotation in Michigan. <i>Agriculture, Ecosystems and Environment</i> , 2005 , 108, 329-341	5.7	159
157	Spatial validation of crop models for precision agriculture. <i>Agricultural Systems</i> , 2001 , 68, 97-112	6.1	146
156	Response of wheat growth, grain yield and water use to elevated CO under a Free-Air CO Enrichment (FACE) experiment and modelling in a semi-arid environment. <i>Global Change Biology</i> , 2015 , 21, 2670-2686	11.4	135
155	Soil and Water Quality Rapidly Responds to the Perennial Grain Kernza Wheatgrass. <i>Agronomy Journal</i> , 2013 , 105, 735-744	2.2	118
154	Contribution of Crop Models to Adaptation in Wheat. <i>Trends in Plant Science</i> , 2017 , 22, 472-490	13.1	110

153	Long-term nitrate loss along an agricultural intensity gradient in the Upper Midwest USA. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 149, 10-19	5.7	110
152	A strategic and tactical management approach to select optimal N fertilizer rates for wheat in a spatially variable field. <i>European Journal of Agronomy</i> , 2011 , 35, 215-222	5	106
151	The uncertainty of crop yield projections is reduced by improved temperature response functions. <i>Nature Plants</i> , 2017 , 3, 17102	11.5	95
150	Environmental and economic benefits of variable rate nitrogen fertilization in a nitrate vulnerable zone. <i>Science of the Total Environment</i> , 2016 , 545-546, 227-35	10.2	93
149	In situ detection of tree root distribution and biomass by multi-electrode resistivity imaging. <i>Tree Physiology</i> , 2008 , 28, 1441-8	4.2	91
148	Temperature and precipitation effects on wheat yield across a European transect: a crop model ensemble analysis using impact response surfaces. <i>Climate Research</i> , 2015 , 65, 87-105	1.6	91
147	Long-term wheat response to nitrogen in a rainfed Mediterranean environment: Field data and simulation analysis. <i>European Journal of Agronomy</i> , 2010 , 33, 132-138	5	82
146	Energy Use and Economic Evaluation of a Three Year Crop Rotation for Conservation and Organic Farming in NE Italy. <i>Biosystems Engineering</i> , 2005 , 91, 245-256	4.8	80
145	Contemporary Evidence of Soil Carbon Loss in the U.S. Corn Belt. <i>Soil Science Society of America Journal</i> , 2009 , 73, 2078-2086	2.5	77
144	Analyzing the effects of climate variability on spatial pattern of yield in a maize-wheat-soybean rotation. <i>European Journal of Agronomy</i> , 2007 , 26, 82-91	5	77
143	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N O emissions. <i>Global Change Biology</i> , 2018 , 24, e603-e616	11.4	74
142	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. <i>Field Crops Research</i> , 2017 , 202, 5-20	5.5	70
141	Global wheat production with 1.5 and 2.0°C above pre-industrial warming. <i>Global Change Biology</i> , 2018 , 25, 1428	11.4	69
140	Complex water management in modern agriculture: Trends in the water-energy-food nexus over the High Plains Aquifer. <i>Science of the Total Environment</i> , 2016 , 566-567, 988-1001	10.2	68
139	Multimodel ensembles improve predictions of crop-environment-management interactions. <i>Global Change Biology</i> , 2018 , 24, 5072-5083	11.4	68
138	Towards a new generation of agricultural system data, models and knowledge products: Design and improvement. <i>Agricultural Systems</i> , 2017 , 155, 255-268	6.1	67
137	Development, uncertainty and sensitivity analysis of the simple SALUS crop model in DSSAT. <i>Ecological Modelling</i> , 2013 , 260, 62-76	3	56
136	Assessing the Robustness of Vegetation Indices to Estimate Wheat N in Mediterranean Environments. <i>Remote Sensing</i> , 2014 , 6, 2827-2844	5	55

135	Predicting spatial patterns of within-field crop yield variability. <i>Field Crops Research</i> , 2018 , 219, 106-112	5.5	54
134	Hot spots of wheat yield decline with rising temperatures. <i>Global Change Biology</i> , 2017 , 23, 2464-2472	11.4	54
133	Spatial and temporal variability of wheat grain yield and quality in a Mediterranean environment: A multivariate geostatistical approach. <i>Field Crops Research</i> , 2012 , 131, 49-62	5.5	54
132	Variable rate nitrogen fertilizer response in wheat using remote sensing. <i>Precision Agriculture</i> , 2016 , 17, 168-182	5.6	53
131	Analysis of rainfall distribution on spatial and temporal patterns of wheat yield in Mediterranean environment. <i>European Journal of Agronomy</i> , 2012 , 41, 52-65	5	53
130	A Comprehensive Review of the CERES-Wheat, -Maize and -Rice Models Performances. <i>Advances in Agronomy</i> , 2016 , 27-132	7.7	51
129	Comparative water use by maize, perennial crops, restored prairie, and poplar trees in the US Midwest. <i>Environmental Research Letters</i> , 2015 , 10, 064015	6.2	50
128	Impact of manure and slurry applications on soil nitrate in a maize-wheat rotation: Field study and long term simulation analysis. <i>European Journal of Agronomy</i> , 2012 , 38, 43-53	5	49
127	Seasonal crop yield forecast: Methods, applications, and accuracies. <i>Advances in Agronomy</i> , 2019 , 201-255	7.7	49
126	How accurately do maize crop models simulate the interactions of atmospheric CO2 concentration levels with limited water supply on water use and yield?. <i>European Journal of Agronomy</i> , 2018 , 100, 67-75	5	48
125	Procedures for Initializing Soil Organic Carbon Pools in the DSSAT-CENTURY Model for Agricultural Systems. <i>Soil Science Society of America Journal</i> , 2011 , 75, 69-78	2.5	48
124	Water use efficiency is not constant when crop water supply is adequate or fixed: The role of agronomic management. <i>European Journal of Agronomy</i> , 2008 , 28, 273-281	5	45
123	Groundwater depletion and climate change: future prospects of crop production in the Central High Plains Aquifer. <i>Climatic Change</i> , 2018 , 146, 187-200	4.5	44
122	Soil carbon sequestration and associated economic costs for farming systems of the Indo-Gangetic Plain: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 146, 137-146	5.7	43
121	Evaluating energy efficiency of site-specific tillage in maize in NE Italy. <i>Bioresource Technology</i> , 2008 , 99, 6957-65	11	42
120	Yield stability analysis reveals sources of large-scale nitrogen loss from the US Midwest. <i>Scientific Reports</i> , 2019 , 9, 5774	4.9	41
119	Intensive olive orchards on sloping land: good water and pest management are essential. <i>Journal of Environmental Management</i> , 2008 , 89, 120-8	7.9	41
118	The contribution of maize cropping in the Midwest USA to global warming: A regional estimate. <i>Agricultural Systems</i> , 2011 , 104, 292-296	6.1	40

117	Use of the Canopy Chlorophyll Content Index (CCCI) for Remote Estimation of Wheat Nitrogen Content in Rainfed Environments. <i>Agronomy Journal</i> , 2011 , 103, 1597-1603	2.2	39
116	Can Impacts of Climate Change and Agricultural Adaptation Strategies Be Accurately Quantified if Crop Models Are Annually Re-Initialized?. <i>PLoS ONE</i> , 2015 , 10, e0127333	3.7	39
115	Landscape Position and Precipitation Effects on Spatial Variability of Wheat Yield and Grain Protein in Southern Italy. <i>Journal of Agronomy and Crop Science</i> , 2009 , 195, 301-312	3.9	38
114	Simulation of Tillage Systems Impact on Soil Biophysical Properties Using the SALUS Model. <i>Italian Journal of Agronomy</i> , 2006 , 1, 677	1.4	38
113	Multi-wheat-model ensemble responses to interannual climate variability. <i>Environmental Modelling and Software</i> , 2016 , 81, 86-101	5.2	38
112	Drivers of within-field spatial and temporal variability of crop yield across the US Midwest. <i>Scientific Reports</i> , 2018 , 8, 14833	4.9	38
111	Wheat yield response to spatially variable nitrogen fertilizer in Mediterranean environment. <i>European Journal of Agronomy</i> , 2013 , 51, 65-70	5	37
110	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO ₂ . <i>Field Crops Research</i> , 2016 , 198, 80-92	5.5	36
109	Optimizing Parameters of CSM-CERES-Maize Model to Improve Simulation Performance of Maize Growth and Nitrogen Uptake in Northeast China. <i>Journal of Integrative Agriculture</i> , 2012 , 11, 1898-1913	3.2	34
108	Urban water sustainability: framework and application. <i>Ecology and Society</i> , 2016 , 21,	4.1	34
107	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. <i>Agricultural and Forest Meteorology</i> , 2019 , 271, 264-284	5.8	33
106	Geophysical and Hyperspectral Data Fusion Techniques for In-Field Estimation of Soil Properties. <i>Vadose Zone Journal</i> , 2013 , 12, vzj2012.0201	2.7	33
105	Two-Dimensional Spatial and Temporal Variation of Soil Physical Properties in Tillage Systems Using Electrical Resistivity Tomography. <i>Agronomy Journal</i> , 2010 , 102, 440-449	2.2	33
104	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. <i>Agricultural Systems</i> , 2018 , 159, 209-224	6.1	32
103	Economic and environmental evaluation of site-specific tillage in a maize crop in NE Italy. <i>European Journal of Agronomy</i> , 2011 , 35, 83-92	5	32
102	Evapotranspiration in High-Yielding Maize and under Increased Vapor Pressure Deficit in the US Midwest. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 170039	1.5	31
101	Estimation of spatial and temporal variability of pasture growth and digestibility in grazing rotations coupling unmanned aerial vehicle (UAV) with crop simulation models. <i>PLoS ONE</i> , 2019 , 14, e0212773	3.7	30
100	Environmental and economic evaluation of N fertilizer rates in a maize crop in Italy: A spatial and temporal analysis using crop models. <i>Biosystems Engineering</i> , 2012 , 113, 103-111	4.8	30

99	Evaluating the impact of soil conservation measures on soil organic carbon at the farm scale. <i>Computers and Electronics in Agriculture</i> , 2017 , 135, 175-182	6.5	29
98	Analysis of Contributing Factors to Desertification and Mitigation Measures in Basilicata Region. <i>Italian Journal of Agronomy</i> , 2010 , 5, 33	1.4	28
97	Spatial sampling of weather data for regional crop yield simulations. <i>Agricultural and Forest Meteorology</i> , 2016 , 220, 101-115	5.8	27
96	Effect of organic and mineral N fertilizers on N ₂ O emissions from an intensive vegetable rotation. <i>Biology and Fertility of Soils</i> , 2016 , 52, 895-908	6.1	27
95	The Need for a Coupled Human and Natural Systems Understanding of Agricultural Nitrogen Loss. <i>BioScience</i> , 2015 , 65, 571-578	5.7	26
94	A statistical analysis of three ensembles of crop model responses to temperature and CO ₂ concentration. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 483-493	5.8	25
93	Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. <i>Journal of Soils and Water Conservation</i> , 2014 , 69, 532-542	2.2	25
92	Can conservation tillage mitigate climate change impacts in Mediterranean cereal systems? A soil organic carbon assessment using long term experiments. <i>European Journal of Agronomy</i> , 2017 , 90, 96-107	5	25
91	The future of agriculture over the Ogallala Aquifer: Solutions to grow crops more efficiently with limited water. <i>Earth's Future</i> , 2013 , 1, 39-41	7.9	25
90	Soil carbon sequestration rates and associated economic costs for farming systems of south-eastern Australia. <i>Soil Research</i> , 2010 , 48, 720	1.8	25
89	Selecting optimal hyperspectral bands to discriminate nitrogen status in durum wheat: a comparison of statistical approaches. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 199	3.1	23
88	NO and CO emissions following repeated application of organic and mineral N fertiliser from a vegetable crop rotation. <i>Science of the Total Environment</i> , 2018 , 637-638, 813-824	10.2	23
87	Parameter and uncertainty estimation for maize, peanut and cotton using the SALUS crop model. <i>Agricultural Systems</i> , 2015 , 135, 31-47	6.1	21
86	Assessing the Impact of Management Strategies on Water Use Efficiency Using Soil-Plant-Atmosphere Models. <i>Vadose Zone Journal</i> , 2012 , 11, vzi2011.0173	2.7	21
85	Multi-temporal RADARSAT-2 polarimetric SAR for maize mapping supported by segmentations from high-resolution optical image. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019 , 74, 1-15	7.3	21
84	Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields under Climate Change. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 180026	1.5	20
83	Temperature and drought effects on maize yield. <i>Nature Climate Change</i> , 2014 , 4, 233-233	21.4	19
82	Science in the Supply Chain: Collaboration Opportunities for Advancing Sustainable Agriculture in the United States. <i>Agricultural and Environmental Letters</i> , 2017 , 2, 170015	1.5	19

81	Agronomic and economic evaluation of irrigation strategies on cotton lint yield in Australia. <i>Crop and Pasture Science</i> , 2012 , 63, 647	2.2	19
80	Nitrate Leaching from Continuous Corn, Perennial Grasses, and Poplar in the US Midwest. <i>Journal of Environmental Quality</i> , 2019 , 48, 1849-1855	3.4	19
79	Spatio-Temporal Nitrogen Fertilizer Response in Maize: Field Study and Modeling Approach. <i>Agronomy Journal</i> , 2016 , 108, 2110-2122	2.2	18
78	Use of soil and vegetation spectroradiometry to investigate crop water use efficiency of a drip irrigated tomato. <i>European Journal of Agronomy</i> , 2014 , 59, 67-77	5	18
77	Ensemble modelling of carbon fluxes in grasslands and croplands. <i>Field Crops Research</i> , 2020 , 252, 107795	15	17
76	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. <i>Global Change Biology</i> , 2020 , 26, 5942-5964	11.4	16
75	A comparison of within-season yield prediction algorithms based on crop model behaviour analysis. <i>Agricultural and Forest Meteorology</i> , 2015 , 204, 10-21	5.8	16
74	Adapting wheat sowing dates to projected climate change in the Australian subtropics: analysis of crop water use and yield. <i>Crop and Pasture Science</i> , 2012 , 63, 974	2.2	16
73	Evapotranspiration is resilient in the face of land cover and climate change in a humid temperate catchment. <i>Hydrological Processes</i> , 2018 , 32, 655-663	3.3	15
72	Evapotranspiration and water use efficiency of continuous maize and maize and soybean in rotation in the upper Midwest U.S.. <i>Agricultural Water Management</i> , 2019 , 221, 92-98	5.9	14
71	Steaming effects on selected wood properties of Turkey oak by spectral analysis. <i>Wood Science and Technology</i> , 2012 , 46, 89-100	2.5	14
70	Moving toward sustainable farming systems: Insights from private and public sector dialogues on nitrogen management. <i>Journal of Soils and Water Conservation</i> , 2017 , 72, 5A-9A	2.2	13
69	Impacts of climate variability and adaptation strategies on crop yields and soil organic carbon in the US Midwest. <i>PLoS ONE</i> , 2020 , 15, e0225433	3.7	13
68	Agronomic traits and vegetation indices of two onion hybrids. <i>Scientia Horticulturae</i> , 2013 , 155, 56-64	4.1	13
67	Evaluating the fidelity of downscaled climate data on simulated wheat and maize production in the southeastern US. <i>Regional Environmental Change</i> , 2013 , 13, 101-110	4.3	13
66	Criteria for Selecting Optimal Nitrogen Fertilizer Rates for Precision Agriculture. <i>Italian Journal of Agronomy</i> , 2009 , 4, 147	1.4	13
65	Using SALUS model for medium and long term simulations of energy efficiency in different tillage systems. <i>Applied Mathematical Sciences</i> , 2014 , 8, 6433-6445	0.6	13
64	Novel technologies for emission reduction complement conservation agriculture to achieve negative emissions from row-crop production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13

63	Machine learning improves predictions of agricultural nitrous oxide (N ₂ O) emissions from intensively managed cropping systems. <i>Environmental Research Letters</i> , 2021 , 16, 024004	6.2	13
62	Remote Sensing: Advancing the Science and the Applications to Transform Agriculture. <i>IT Professional</i> , 2020 , 22, 42-45	1.9	12
61	Unstable crop yields reveal opportunities for site-specific adaptations to climate variability. <i>Scientific Reports</i> , 2020 , 10, 2885	4.9	12
60	Can Organic Amendments Support Sustainable Vegetable Production?. <i>Agronomy Journal</i> , 2017 , 109, 1856-1869	2.2	12
59	Mid-20th century warming hole boosts US maize yields. <i>Environmental Research Letters</i> , 2019 , 14, 114008	8.2	12
58	Capsaicin modulates proliferation, migration, and activation of hepatic stellate cells. <i>Cell Biochemistry and Biophysics</i> , 2014 , 68, 387-96	3.2	12
57	Climatic risk assessment to improve nitrogen fertilisation recommendations: A strategic crop model-based approach. <i>European Journal of Agronomy</i> , 2015 , 65, 10-17	5	12
56	Leaching losses of dissolved organic carbon and nitrogen from agricultural soils in the upper US Midwest. <i>Science of the Total Environment</i> , 2020 , 734, 139379	10.2	12
55	Predicting soil carbon changes in switchgrass grown on marginal lands under climate change and adaptation strategies. <i>GCB Bioenergy</i> , 2020 , 12, 742-755	5.6	12
54	Redefining marginal land for bioenergy crop production. <i>GCB Bioenergy</i> , 2021 , 13, 1590-1609	5.6	12
53	Addressing Challenges for Mapping Irrigated Fields in Subhumid Temperate Regions by Integrating Remote Sensing and Hydroclimatic Data. <i>Remote Sensing</i> , 2019 , 11, 370	5	11
52	Systematic analysis of site-specific yield distributions resulting from nitrogen management and climatic variability interactions. <i>Precision Agriculture</i> , 2015 , 16, 361-384	5.6	11
51	Assessing and modeling economic and environmental impact of wheat nitrogen management in Belgium. <i>Environmental Modelling and Software</i> , 2016 , 79, 184-196	5.2	11
50	Estimating plant distance in maize using Unmanned Aerial Vehicle (UAV). <i>PLoS ONE</i> , 2018 , 13, e0195223	3.7	11
49	Quantifying changes in water use and groundwater availability in a megacity using novel integrated systems modeling. <i>Geophysical Research Letters</i> , 2017 , 44, 8359-8368	4.9	11
48	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. <i>European Journal of Agronomy</i> , 2021 , 124, 126195	5	11
47	Spatial evaluation of switchgrass productivity under historical and future climate scenarios in Michigan. <i>GCB Bioenergy</i> , 2017 , 9, 1320-1332	5.6	10
46	Cultivar discrimination at different site elevations with remotely sensed vegetation indices. <i>Italian Journal of Agronomy</i> , 2011 , 6, 1	1.4	10

45	Remote estimation of chlorophyll on two wheat cultivars in two rainfed environments. <i>Crop and Pasture Science</i> , 2011 , 62, 269	2.2	10
44	Tradeoffs between Maize Silage Yield and Nitrate Leaching in a Mediterranean Nitrate-Vulnerable Zone under Current and Projected Climate Scenarios. <i>PLoS ONE</i> , 2016 , 11, e0146360	3.7	10
43	Cover crops and weed suppression in the U.S. Midwest: A meta-analysis and modeling study. <i>Agricultural and Environmental Letters</i> , 2020 , 5, e20022	1.5	10
42	Linking field survey with crop modeling to forecast maize yield in smallholder farmers' fields in Tanzania. <i>Food Security</i> , 2020 , 12, 537-548	6.7	9
41	Contrasting long-term temperature trends reveal minor changes in projected potential evapotranspiration in the US Midwest. <i>Nature Communications</i> , 2021 , 12, 1476	17.4	9
40	Can multi-strategy management stabilize nitrate leaching under increasing rainfall?. <i>Environmental Research Letters</i> , 2019 , 14, 124079	6.2	9
39	Uncertainties in Scaling-Up Crop Models for Large-Area Climate Change Impact Assessments. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 261-277		8
38	Olive Agroecosystems in the Mediterranean Basin: Multitrophic Analysis of Climate Effects with Process-based Representation of Soil Water Balance. <i>Procedia Environmental Sciences</i> , 2013 , 19, 122-131		8
37	On the relationship between N management and grain protein content in six durum wheat cultivars in Mediterranean environment. <i>Journal of Plant Interactions</i> , 2013 , 8, 271-279	3.8	8
36	Interseeding cover crops in corn: Establishment, biomass, and competitiveness in on-farm trials. <i>Agronomy Journal</i> , 2020 , 112, 3733-3743	2.2	8
35	Predicting pasture biomass using a statistical model and machine learning algorithm implemented with remotely sensed imagery. <i>Computers and Electronics in Agriculture</i> , 2021 , 180, 105880	6.5	8
34	Capturing Maize Stand Heterogeneity Across Yield-Stability Zones Using Unmanned Aerial Vehicles (UAV). <i>Sensors</i> , 2019 , 19,	3.8	7
33	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?		
32	Modeling spatial and temporal optimal N fertilizer rates to reduce nitrate leaching while improving grain yield and quality in malting barley. <i>Computers and Electronics in Agriculture</i> , 2021 , 182, 105997	6.5	7
31	Spatial evaluation of maize yield in Malawi. <i>Agricultural Systems</i> , 2017 , 157, 185-192	6.1	6
30	Effects of Fresh and Composted Dairy Manure Applications on Alfalfa Yield and the Environment in Arizona. <i>Agronomy Journal</i> , 2006 , 98, 80-84	2.2	6
29	Meeting global challenges with regenerative agriculture producing food and energy. <i>Nature Sustainability</i> ,	22.1	6
28	Assessing and Modeling Pasture Growth under Different Nitrogen Fertilizer and Defoliation Rates in Argentina and the United States. <i>Agronomy Journal</i> , 2019 , 111, 702-713	2.2	5

27	Modeling the Nutritive Value of Defoliated Tall Fescue Pastures Based on Leaf Morphogenesis. <i>Agronomy Journal</i> , 2019 , 111, 714-724	2.2	5
26	From the Dust Bowl to Drones to Big Data: The Next Revolution in Agriculture. <i>Georgetown Journal of International Affairs</i> , 2017 , 18, 158-165	0.5	5
25	On modeling approaches for effective assessment of hydrology of bioenergy crops: Comments on Le et al. (2011) Proc Natl Acad Sci USA 108:15085-15090. <i>European Journal of Agronomy</i> , 2012 , 38, 64-65	5	5
24	Development of a new long-term drought resilient soil water retention technology. <i>Journal of Soils and Water Conservation</i> , 2014 , 69, 154A-160A	2.2	5
23	Offsetting greenhouse gas emissions through biological carbon sequestration in North Eastern Australia. <i>Agricultural Systems</i> , 2012 , 105, 1-6	6.1	5
22	Improving Crop Model Inference Through Bayesian Melding With Spatially Varying Parameters. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011 , 16, 453-474	1.9	5
21	In situ detection of tree root distribution and biomass by multielectrode resistivity imaging. <i>Tree Physiology</i> , 2008 , 28, 1441-1448	4.2	5
20	Multi-model evaluation of phenology prediction for wheat in Australia. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108289	5.8	5
19	Combining Remote Sensing and Crop Models to Assess the Sustainability of Stakeholder-Driven Groundwater Management in the US High Plains Aquifer. <i>Water Resources Research</i> , 2021 , 57, e2020WR027756	5.4	5
18	Enabling circularity in grain production systems with novel technologies and policy. <i>Agricultural Systems</i> , 2021 , 193, 103244	6.1	5
17	Improving the estimation and partitioning of plant nitrogen in the RiceGrow model. <i>Journal of Agricultural Science</i> , 2018 , 156, 959-970	1	4
16	Conservative Precision Agriculture: an assessment of technical feasibility and energy efficiency within the LIFE+ AGRICARE project. <i>Advances in Animal Biosciences</i> , 2017 , 8, 439-443	0.3	3
15	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. <i>Environmental Modelling and Software</i> , 2021 , 145, 105206	5.2	3
14	Field indicators of leaf nutritive value for perennial ryegrass and tall fescue pastures under different growing and management conditions. <i>Grass and Forage Science</i> , 2020 , 75, 159-168	2.3	2
13	Improved method for discriminating agricultural crops using geostatistics and remote sensing. <i>Journal of Applied Remote Sensing</i> , 2011 , 5, 053536	1.4	2
12	Subfield maize yield prediction improves when in-season crop water deficit is included in remote sensing imagery-based models. <i>Remote Sensing of Environment</i> , 2022 , 272, 112938	13.2	2
11	Subfield crop yields and temporal stability in thousands of US Midwest fields. <i>Precision Agriculture</i> , 2021 , 22, 1749-1767	5.6	2
10	Agronomical aspects of officinal plant cultivation. <i>Phytotherapy Research</i> , 1998 , 12, S131-S134	6.7	1

9	Phosphorus availability and leaching losses in annual and perennial cropping systems in an upper US Midwest landscape. <i>Scientific Reports</i> , 2021 , 11, 20367	4.9	1
8	Multi-model evaluation of phenology prediction for wheat in Australia		1
7	The chaos in calibrating crop models		1
6	Modeling soil organic carbon and yam yield under different agronomic management across spatial scales in Ghana. <i>Field Crops Research</i> , 2021 , 263, 108018	5.5	1
5	Integrating geospatial tools and a crop simulation model to understand spatial and temporal variability of cereals in Scotland 2019 ,		1
4	Integrated spatially explicit landscape and cellulosic biofuel supply chain optimization under biomass yield uncertainty. <i>Computers and Chemical Engineering</i> , 2022 , 160, 107724	4	0
3	Evaluating high-resolution optical and thermal reflectance of maize interseeded with cover crops across spatial scales using remotely sensed imagery. <i>Agronomy Journal</i> , 2021 , 113, 2884-2899	2.2	0
2	Modeling Soil Dynamic Processes. <i>Agronomy</i> , 547-577	0.8	
1	Reply to Amundson: Time to go to work.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2122842119	11.5	