

Jerry Hatfield

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.

166
papers

9,331
citations

39
h-index

95
g-index

178
ext. papers

10,959
ext. citations

3.6
avg, IF

6.46
L-index

#	Paper	IF	Citations
166	Estimating Absorbed Photosynthetic Radiation and Leaf Area Index from Spectral Reflectance in Wheat1. <i>Agronomy Journal</i> , 1984 , 76, 300-306	2.2	922
165	Temperature extremes: Effect on plant growth and development. <i>Weather and Climate Extremes</i> , 2015 , 10, 4-10	6	913
164	Uncertainty in simulating wheat yields under climate change. <i>Nature Climate Change</i> , 2013 , 3, 827-832	21.4	827
163	Climate Impacts on Agriculture: Implications for Crop Production. <i>Agronomy Journal</i> , 2011 , 103, 351-370	2.2	770
162	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
161	Nitrogen Management Strategies to Reduce Nitrate Leaching in Tile-Drained Midwestern Soils. <i>Agronomy Journal</i> , 2002 , 94, 153	2.2	385
160	Remote Sensing for Crop Management. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003 , 69, 647-664	16.4	349
159	Managing Soils to Achieve Greater Water Use Efficiency. <i>Agronomy Journal</i> , 2001 , 93, 271-280	2.2	349
158	Application of Spectral Remote Sensing for Agronomic Decisions. <i>Agronomy Journal</i> , 2008 , 100, S-117-S-131	13.1	308
157	Multimodel ensembles of wheat growth: many models are better than one. <i>Global Change Biology</i> , 2015 , 21, 911-25	11.4	292
156	Water-Use Efficiency: Advances and Challenges in a Changing Climate. <i>Frontiers in Plant Science</i> , 2019 , 10, 103	6.2	186
155	Characterization of Volatile Organic Emissions and Wastes from a Swine Production Facility. <i>Journal of Environmental Quality</i> , 1997 , 26, 1687-1696	3.4	182
154	Value of Using Different Vegetative Indices to Quantify Agricultural Crop Characteristics at Different Growth Stages under Varying Management Practices. <i>Remote Sensing</i> , 2010 , 2, 562-578	5	180
153	Discerning the forest from the trees: an essay on scaling canopy stomatal conductance. <i>Agricultural and Forest Meteorology</i> , 1991 , 54, 197-226	5.8	135
152	Climate-smart agriculture global research agenda: scientific basis for action. <i>Agriculture and Food Security</i> , 2014 , 3,	3.1	121
151	Remote estimation of crop gross primary production with Landsat data. <i>Remote Sensing of Environment</i> , 2012 , 121, 404-414	13.2	119
150	Meeting Global Food Needs: Realizing the Potential via Genetics [Environment [Management Interactions. <i>Agronomy Journal</i> , 2015 , 107, 1215-1226	2.2	105

149	Crop Wind Energy Experiment (CWEX): Observations of Surface-Layer, Boundary Layer, and Mesoscale Interactions with a Wind Farm. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 655-672	6.1	96
148	Variability in soil heat flux from a mesquite dune site. <i>Agricultural and Forest Meteorology</i> , 2000 , 103, 249-264	5.8	83
147	Climate Impacts on Agriculture: Implications for Forage and Rangeland Production. <i>Agronomy Journal</i> , 2011 , 103, 371-381	2.2	82
146	Predicting Maize Phenology: Intercomparison of Functions for Developmental Response to Temperature. <i>Agronomy Journal</i> , 2014 , 106, 2087-2097	2.2	81
145	Dynamics of Plant Root Growth under Increased Atmospheric Carbon Dioxide. <i>Agronomy Journal</i> , 2013 , 105, 657-669	2.2	75
144	Tower and Aircraft Eddy Covariance Measurements of Water Vapor, Energy, and Carbon Dioxide Fluxes during SMACEX. <i>Journal of Hydrometeorology</i> , 2005 , 6, 954-960	3.7	69
143	Impacts of fresh and aged biochars on plant available water and water use efficiency. <i>Geoderma</i> , 2017 , 307, 114-121	6.7	68
142	Soil. <i>Advances in Agronomy</i> , 2017 , 1-46	7.7	60
141	Identifying and tracking key odorants from cattle feedlots. <i>Atmospheric Environment</i> , 2011 , 45, 4243-4251	5.3	60
140	Bowen-Ratio Comparisons with Lysimeter Evapotranspiration. <i>Agronomy Journal</i> , 1997 , 89, 730-736	2.2	59
139	Carbon dioxide fluxes in corn-soybean rotation in the midwestern U.S.: Inter- and intra-annual variations, and biophysical controls. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1831-1842	5.8	54
138	Corn Residue Age and Placement Effects on Evaporation and Soil Thermal Regime. <i>Soil Science Society of America Journal</i> , 1996 , 60, 1558-1564	2.5	53
137	Speciation of volatile organic compounds from poultry production. <i>Atmospheric Environment</i> , 2010 , 44, 3538-3546	5.3	49
136	Test of the Stress-Degree-Day Concept Using Multiple Planting Dates of Red Kidney Beans. <i>Agronomy Journal</i> , 1979 , 71, 967-971	2.2	49
135	Variability of light interception and radiation use efficiency in maize and soybean. <i>Field Crops Research</i> , 2011 , 121, 147-152	5.5	47
134	Maize and soybean root front velocity and maximum depth in Iowa, USA. <i>Field Crops Research</i> , 2018 , 215, 122-131	5.5	47
133	Predicting crop yields and soil-plant nitrogen dynamics in the US Corn Belt. <i>Crop Science</i> , 2020 , 60, 721-738	3.8	45
132	Plant-to-Plant Variability in Corn Production. <i>Agronomy Journal</i> , 2005 , 97, 1603-1611	2.2	43

131	Changes in fluxes of heat, H ₂ O, and CO ₂ caused by a large wind farm. <i>Agricultural and Forest Meteorology</i> , 2014 , 194, 175-187	5.8	42
130	Comparison of long-wave radiation calculation methods over the United States. <i>Water Resources Research</i> , 1983 , 19, 285-288	5.4	41
129	Microclimate effects of crop residues on biological processes. <i>Theoretical and Applied Climatology</i> , 1996 , 54, 47-59	3	39
128	Indicators of climate change in agricultural systems. <i>Climatic Change</i> , 2020 , 163, 1719-1732	4.5	39
127	Vulnerability of grain crops and croplands in the Midwest to climatic variability and adaptation strategies. <i>Climatic Change</i> , 2018 , 146, 263-275	4.5	38
126	From the Ground to Space: Using Solar-Induced Chlorophyll Fluorescence to Estimate Crop Productivity. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087474	4.9	37
125	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
124	CO ₂ uptake and ecophysiological parameters of the grain crops of midcontinent North America: Estimates from flux tower measurements. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 164, 162-175	5.7	36
123	Enhanced Efficiency Fertilizers: Effect on Nitrous Oxide Emissions in Iowa. <i>Agronomy Journal</i> , 2014 , 106, 694-702	2.2	36
122	Use of Canopy Temperatures of Identify Water Conservation in Cotton Germplasm1. <i>Crop Science</i> , 1987 , 27, 269-273	2.4	36
121	Disentangling Changes in the Spectral Shape of Chlorophyll Fluorescence: Implications for Remote Sensing of Photosynthesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1491-1507	3.7	35
120	Energy balance and turbulent flux partitioning in a corn-soybean rotation in the Midwestern US. <i>Theoretical and Applied Climatology</i> , 2010 , 100, 79-92	3	35
119	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. <i>Agricultural and Forest Meteorology</i> , 2019 , 271, 264-284	5.8	33
118	Enhancing APSIM to simulate excessive moisture effects on root growth. <i>Field Crops Research</i> , 2019 , 236, 58-67	5.5	33
117	From soilscapes to landscapes: A landscape-oriented approach to simulate soil organic carbon dynamics in intensively managed landscapes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 2375-2401	3.7	32
116	Productivity and Carbon Dioxide Exchange of Leguminous Crops: Estimates from Flux Tower Measurements. <i>Agronomy Journal</i> , 2014 , 106, 545-559	2.2	31
115	Yield Gaps and Yield Relationships in Central U.S. Soybean Production Systems. <i>Agronomy Journal</i> , 2014 , 106, 560-566	2.2	30
114	N loss to drain flow and NO emissions from a corn-soybean rotation with winter rye. <i>Science of the Total Environment</i> , 2018 , 618, 982-997	10.2	28

113	Soil Water and Shallow Groundwater Relations in an Agricultural Hillslope. <i>Soil Science Society of America Journal</i> , 2009 , 73, 1461-1468	2.5	27
112	Enhanced Efficiency Fertilizers: Effect on Agronomic Performance of Corn in Iowa. <i>Agronomy Journal</i> , 2014 , 106, 771-780	2.2	26
111	Radiation Use Efficiency: Evaluation of Cropping and Management Systems. <i>Agronomy Journal</i> , 2014 , 106, 1820-1827	2.2	24
110	Effect of Deficit Irrigation and Fertilization on Cucumber. <i>Agronomy Journal</i> , 2009 , 101, 1556-1564	2.2	24
109	Discrete element modeling of cultivator sweep-to-soil interaction: Worn and hardened edges effects on soil-tool forces and soil flow. <i>Journal of Terramechanics</i> , 2019 , 82, 1-11	2.2	24
108	Challenges and Responses to Ongoing and Projected Climate Change for Dryland Cereal Production Systems throughout the World. <i>Agronomy</i> , 2018 , 8, 34	3.6	23
107	Increased Temperatures Have Dramatic Effects on Growth and Grain Yield of Three Maize Hybrids. <i>Agricultural and Environmental Letters</i> , 2016 , 1, 150006	1.5	23
106	Agroclimatology and Wheat Production: Coping with Climate Change. <i>Frontiers in Plant Science</i> , 2018 , 9, 224	6.2	22
105	Remote Sensing Research in Hydrometeorology. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003 , 69, 631-646	1.6	22
104	Evaluation of an Electronic Foliometer to Measure Leaf Area in Corn and Soybeans ¹ . <i>Agronomy Journal</i> , 1976 , 68, 434-436	2.2	22
103	Physical robustness of canopy temperature models for crop heat stress simulation across environments and production conditions. <i>Field Crops Research</i> , 2018 , 216, 75-88	5.5	22
102	An Integrated View of Complex Landscapes: A Big Data-Model Integration Approach to Transdisciplinary Science. <i>BioScience</i> , 2018 , 68, 653-669	5.7	22
101	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. <i>Geophysical Research Letters</i> , 2018 , 45, 9275-9287	4.9	21
100	Aerodynamic Characteristics of Standing Corn Stubble. <i>Agronomy Journal</i> , 1996 , 88, 733-739	2.2	21
99	Cropping pattern changes diminish agroecosystem services in North and South Dakota, USA. <i>Agronomy Journal</i> , 2020 , 112, 1-24	2.2	21
98	Enhanced Efficiency Fertilizers: A Multi-Site Comparison of the Effects on Nitrous Oxide Emissions and Agronomic Performance. <i>Agronomy Journal</i> , 2014 , 106, 679-680	2.2	20
97	Yield and Yield Gaps in Central U.S. Corn Production Systems. <i>Agronomy Journal</i> , 2014 , 106, 2248-2254	2.2	20
96	Convergence of agricultural intensification and climate change in the Midwestern United States: implications for soil and water conservation. <i>Marine and Freshwater Research</i> , 2013 , 64, 423	2.2	20

95	Contrasting methods for estimating evapotranspiration in soybean. <i>Agricultural Water Management</i> , 2010 , 98, 157-163	5.9	20
94	Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields under Climate Change. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 180026	1.5	20
93	Spatial and Temporal Variation of Energy and Carbon Fluxes in Central Iowa. <i>Agronomy Journal</i> , 2007 , 99, 285-296	2.2	19
92	Maize root distributions strongly associated with water tables in Iowa, USA. <i>Plant and Soil</i> , 2019 , 444, 225-238	4.2	18
91	Are We Getting Better in Using Nitrogen?: Variations in Nitrogen Use Efficiency of Two Cereal Crops Across the United States. <i>Earth's Future</i> , 2019 , 7, 939-952	7.9	18
90	Grand Challenges in Understanding the Interplay of Climate and Land Changes. <i>Earth Interactions</i> , 2017 , 21, 1-43	1.5	17
89	Simulating N ₂ O emissions under different tillage systems of irrigated corn using RZ-SHAW model. <i>Soil and Tillage Research</i> , 2017 , 165, 268-278	6.5	17
88	Development of near-infrared spectroscopy calibrations to measure quality characteristics in intact Brassicaceae germplasm. <i>Industrial Crops and Products</i> , 2016 , 89, 52-58	5.9	16
87	Toward a Better Understanding of Genotype × Environment × Management Interactions-A Global Wheat Initiative Agronomic Research Strategy. <i>Frontiers in Plant Science</i> , 2020 , 11, 828	6.2	15
86	Spatial Variation of Rainfall over a Large Watershed in Central Iowa. <i>Theoretical and Applied Climatology</i> , 1999 , 64, 49-60	3	15
85	Rice Free-Air Carbon Dioxide Enrichment Studies to Improve Assessment of Climate Change Effects on Rice Agriculture. <i>Advances in Agricultural Systems Modeling</i> , 2016 , 45-68	0.3	15
84	Odorous compounds sources and transport from a swine deep-pit finishing operation: A case study. <i>Journal of Environmental Management</i> , 2019 , 233, 12-23	7.9	15
83	Evaluating maize and soybean grain dry-down in the field with predictive algorithms and genotype-by-environment analysis. <i>Scientific Reports</i> , 2019 , 9, 7167	4.9	14
82	Characterizing agricultural impacts of recent large-scale US droughts and changing technology and management. <i>Agricultural Systems</i> , 2018 , 159, 275-281	6.1	13
81	Environmental Impact of Water Use in Agriculture. <i>Agronomy Journal</i> , 2015 , 107, 1554-1556	2.2	13
80	Determining Meaningful Differences for SMACEX Eddy Covariance Measurements. <i>Journal of Hydrometeorology</i> , 2005 , 6, 805-811	3.7	13
79	Yield Gaps in Wheat: Path to Enhancing Productivity. <i>Frontiers in Plant Science</i> , 2019 , 10, 1603	6.2	13
78	Crop Water Stress Index of an irrigated vineyard in the Central Valley of California. <i>Irrigation Science</i> , 2019 , 37, 297-313	3.1	13

77	Particulate capture efficiency of a vegetative environmental buffer surrounding an animal feeding operation. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 240, 101-108	5.7	12
76	Remote Sensing: Advancing the Science and the Applications to Transform Agriculture. <i>IT Professional</i> , 2020 , 22, 42-45	1.9	12
75	Potential Geographic Distribution of Palmer Amaranth under Current and Future Climates. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 170044	1.5	12
74	Impact of Management Practices on Carbon and Water Fluxes in CornSoybean Rotations 2019 , 2, 1-8		11
73	Soil Biological Fertility: Foundation for the Next Revolution in Agriculture?. <i>Communications in Soil Science and Plant Analysis</i> , 2015 , 46, 753-762	1.5	11
72	Root to shoot and carbon to nitrogen ratios of maize and soybean crops in the US Midwest. <i>European Journal of Agronomy</i> , 2020 , 120, 126130	5	11
71	Applications of Vegetative Indices from Remote Sensing to Agriculture: Past and Future. <i>Inventions</i> , 2019 , 4, 71	2.9	11
70	The Role of Hydraulic Connectivity and Management on Soil Aggregate Size and Stability in the Clear Creek Watershed, Iowa. <i>Geosciences (Switzerland)</i> , 2018 , 8, 470	2.7	11
69	A solution for sampling position errors in maize and soybean root mass and length estimates. <i>European Journal of Agronomy</i> , 2018 , 96, 156-162	5	10
68	Modeled nitrous oxide emissions from corn fields in iowa based on county level data. <i>Journal of Environmental Quality</i> , 2015 , 44, 431-41	3.4	10
67	Climate Change Impacts on Corn Phenology and Productivity 2018 ,		10
66	Agronomic Performance of Brassicaceae Oilseeds in Multiple Environments Across the Western USA. <i>Bioenergy Research</i> , 2019 , 12, 509-523	3.1	9
65	Multi-Year Measurements of Field-Scale Metolachlor Volatilization. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	9
64	Climate Impacts on Agriculture in the United States: The Value of Past Observations. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2010 , 239-253		9
63	Turfgrass and Climate Change. <i>Agronomy Journal</i> , 2017 , 109, 1708-1718	2.2	8
62	Interaction of Carbon Dioxide Enrichment and Soil Moisture on Photosynthesis, Transpiration, and Water Use Efficiency of Soybean. <i>Agricultural Sciences</i> , 2014 , 05, 410-429	0.4	8
61	2018 ,		8
60	Lidar Method to Estimate Emission Rates from Extended Sources. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017 , 34, 335-345	2	7

59	Temperature, climate change, and global food security 2013 , 181-202		7
58	Particulate emissions calculations from fall tillage operations using point and remote sensors. <i>Journal of Environmental Quality</i> , 2013 , 42, 1029-38	3.4	7
57	Sentinel Site Data for Crop Model Improvement Definition and Characterization. <i>Advances in Agricultural Systems Modeling</i> , 2016 , 125-158	0.3	7
56	Corn stover harvest N and energy budgets in central Iowa. <i>Science of the Total Environment</i> , 2019 , 663, 776-792	10.2	6
55	Comparison of Corn Transpiration, Eddy Covariance, and Soil Water Loss. <i>Soil Science Society of America Journal</i> , 2014 , 78, 1214-1223	2.5	6
54	Lengthening of maize maturity time is not a widespread climate change adaptation strategy in the US Midwest. <i>Global Change Biology</i> , 2021 , 27, 2426-2440	11.4	6
53	Harnessing AI to Transform Agriculture and Inform Agricultural Research. <i>IT Professional</i> , 2020 , 22, 16-21	1.9	5
52	Deciphering the past to inform the future: preparing for the next (really big) extreme event. <i>Frontiers in Ecology and the Environment</i> , 2020 , 18, 401-408	5.5	5
51	Long-Term Application of the Crop Water Stress Index in Midwest Agro-Ecosystems. <i>Agronomy Journal</i> , 2017 , 109, 2172-2181	2.2	5
50	Soil Degradation, Land Use, and Sustainability. <i>Biotechnology in Agriculture and Forestry</i> , 2014 , 61-74		5
49	Insufficient and excessive N fertilizer input reduces maize root mass across soil types. <i>Field Crops Research</i> , 2021 , 267, 108142	5.5	5
48	Why is SOIL ORGANIC MATTER so important?. <i>Crops & Soils</i> , 2018 , 51, 4-55	0.3	5
47	Challenge for Future Agriculture	24-43	5
46	The Agricultural Model Intercomparison and Improvement Project: Phase I Activities by a Global Community of Science. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 3-24		4
45	The impact of tillage row orientation on physical and chemical sediment enrichment 2020 , 3, e20007		4
44	Upscaling Gross Primary Production in Corn-Soybean Rotation Systems in the Midwest. <i>Remote Sensing</i> , 2019 , 11, 1688	5	4
43	Performance of commercial nonmethane hydrocarbon analyzers in monitoring oxygenated volatile organic compounds emitted from animal feeding operations. <i>Journal of the Air and Waste Management Association</i> , 2013 , 63, 1163-72	2.4	4
42	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Integrated Regional Assessment Projects. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2012 , 263-280		4

41	Effect of Irrigation Method and Non-Uniformity of Irrigation on Potato Performance and Quality. <i>Journal of Water Resource and Protection</i> , 2016 , 08, 277-292	0.7	4
40	Genome-wide association study identifies acyl-lipid metabolism candidate genes involved in the genetic control of natural variation for seed fatty acid traits in Brassica napus L.. <i>Industrial Crops and Products</i> , 2020 , 145, 112080	5.9	4
39	Particulate-matter emission estimates from agricultural spring-tillage operations using LIDAR and inverse modeling. <i>Journal of Applied Remote Sensing</i> , 2015 , 9, 096066	1.4	3
38	Elevated Carbon Dioxide and Soil Moisture on Early Growth Response of Soybean. <i>Agricultural Sciences</i> , 2015 , 06, 263-278	0.4	3
37	Climate Warming Trends in the U.S. Midwest Using Four Thermal Models. <i>Agronomy Journal</i> , 2019 , 111, 3230-3243	2.2	3
36	Climate Change Influence on Herbicide Efficacy and Weed Management 2018 , 433-448		3
35	Drainage N Loads Under Climate Change with Winter Rye Cover Crop in a Northern Mississippi River Basin Corn-Soybean Rotation. <i>Sustainability</i> , 2020 , 12, 7630	3.6	2
34	STEWARDS: A decade of increasing the impact of Agricultural Research Service watershed research programs. <i>Journal of Soils and Water Conservation</i> , 2020 , 75, 50A-56A	2.2	2
33	Extreme soil surface temperatures reflect need to rethink agronomic management. <i>Agricultural and Environmental Letters</i> , 2020 , 5, e20002	1.5	2
32	Hydraulic Deep-Core Sampling Affects Bulk Density and Carbon Stock Measurements. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 180007	1.5	2
31	Photosynthesis in the solar corridor system 2019 , 1-33		2
30	Soil and Nitrogen Management to Reduce Nitrous Oxide Emissions. <i>Assa, Cssa and Sssa</i> , 2017 , 90-108	0.3	2
29	Food and agricultural waste: sources of carbon for ethanol production. <i>Carbon Management</i> , 2013 , 4, 203-213	3.3	2
28	Quantifying atmospheric stability conditions at a swine facility and an adjacent corn field in Iowa, USA. <i>Theoretical and Applied Climatology</i> , 2011 , 105, 495-503	3	2
27	Agronomic approach to understanding climate change and food security. <i>Agronomy Journal</i> ,	2.2	2
26	Crop Yield and Nitrous Oxide Emissions following Swine Manure Application: A Meta-Analysis. <i>Agricultural and Environmental Letters</i> , 2019 , 4, 190024	1.5	2
25	Measured and Simulated Carbon Dynamics in Midwestern U.S. Corn-Soybean Rotations. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006685	5.9	2
24	Transitional no-till: What is it and how does it differ from true no-till?. <i>Crops & Soils</i> , 2018 , 51, 28-36	0.3	2

23	Evapotranspiration: Evolution of Methods to Increase Spatial and Temporal Resolution. <i>Advances in Agricultural Systems Modeling</i> , 2016 , 159-193	0.3	1
22	Dairy Manure and Synthetic Fertilizer: A Meta-Analysis of Crop Production and Environmental Quality 2019 , 2, 1-12		1
21	Climate Change: Challenges for Future Crop Adjustments 2013 , 1-26		1
20	Soil Management for Increasing Water Use Efficiency in Field Crops under Changing Climates 2015 , 161-173		1
19	Derivation and Use of Simple Relationships between Aerodynamic and Optical Particle Measurements. <i>Journal of Environmental Engineering, ASCE</i> , 2015 , 141, 04014078	2	1
18	Precision Nutrient Management and Crop Sensing 2015 , 207-222		1
17	Changing Climate in North America: Implications for Crops 2011 , 57-65		1
16	Herbicide and Nitrate in Surface and Ground Water: Results from the Iowa Management Systems Evaluation Area. <i>ACS Symposium Series</i> , 2004 , 235-248	0.4	1
15	Quantifying the time-specific kinetic energy of simulated rainfall using a dynamic rain gauge system. <i>Agricultural and Environmental Letters</i> , 2021 , 6, e20042	1.5	1
14	Climate Variability Effects on Agriculture Land Use and Soil Services 2017 , 25-50		0
13	Plant-to-plant biomass and yield variability in corn-soybean rotations under three tillage regimes. <i>Agronomy Journal</i> , 2021 , 113, 370-380	2.2	0
12	Biological Linkages to Climatology. <i>Agronomy</i> , 2018 , 153-171	0.8	
11	Parameterization of Energy Balance Components and Remote Sensing in Systems Modeling. <i>Advances in Agricultural Systems Modeling</i> , 2015 , 261-281	0.3	
10	Climatic Resources 2015 , 175-182		
9	Emerging Challenges in Soil Management 2015 , 391-393		
8	North American Perspectives on Potential Climate Change and Agricultural Responses. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2012 , 33-55		
7	Special Issue from the 4th USDA Greenhouse Gas Symposium. <i>Journal of Environmental Quality</i> , 2008 , 37, 1317-8	3-4	
6	The Midwest Water Quality Initiative: Research Experiences at Multiple Scales. <i>ACS Symposium Series</i> , 2000 , 232-247	0.4	

- 5 Metolachlor Volatilization Estimates in Central Iowa. *ACS Symposium Series*, **2000**, 201-216 0.4
- 4 Variable Atmospheric, Canopy, and Soil Effects on Energy and Carbon Fluxes over Crops. *Advances in Agricultural Systems Modeling*, **2016**, 195-216 0.3
- 3 Short-term effects of nitrogen source on soil properties and plant growth **2021**, 4, e20176
- 2 Combined Impacts of Carbon, Temperature, and Drought to Sustain Food Production **2018**, 95-117
- 1 A new perspective when examining maize fertilizer nitrogen use efficiency, incrementally.. *PLoS ONE*, **2022**, 17, e0267215 3.7