David Fleisher

List of Publications by Year
in descending order

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75 papers	2,106 citations	257450 24 h-index	243625 44 g-index
75 all docs	75 docs citations	75 times ranked	2342 citing authors

#	Article	IF	Citations
1	Effects of elevated CO2 and temperature on soybean growth and gas exchange rates: A modified GLYCIM model. Agricultural and Forest Meteorology, 2022, 312, 108700.	4.8	9
2	Cover crop residue decomposition in no-till cropping systems: Insights from multi-state on-farm litter bag studies. Agriculture, Ecosystems and Environment, 2022, 326, 107823.	5.3	26
3	Modeling vapor transfer in soil water and heat simulations: A modularized, partially-coupled approach. Journal of Hydrology, 2022, 608, 127541.	5.4	6
4	GLUEOS: A high performance computing system based on the orchestration of containers for the GLUE parameter calibration of a crop growth model. Computers and Electronics in Agriculture, 2022, 197, 106906.	7.7	1
5	Response of a U.S. rice hybrid variety to high heat at Two CO2 concentrations during anthesis and grainfill. Agricultural and Forest Meteorology, 2022, 323, 109058.	4.8	1
6	A multiscale finite element method for coupled heat and water transfer in heterogeneous soils. Journal of Hydrology, 2022, 612, 128028.	5.4	1
7	Development of a mobile computing framework to aid decision-making on organic fertilizer management using a crop growth model. Computers and Electronics in Agriculture, 2021, 181, 105936.	7.7	8
8	A piecewise analysis model for electrical conductivity calculation from time domain reflectometry waveforms. Computers and Electronics in Agriculture, 2021, 182, 106012.	7.7	6
9	Yield Response of an Ensemble of Potato Crop Models to Elevated CO2 in Continental Europe. European Journal of Agronomy, 2021, 126, 126265.	4.1	6
10	Development of an orchestration aid system for gridded crop growth simulations using Kubernetes. Computers and Electronics in Agriculture, 2021, 186, 106187.	7.7	3
11	A diffusive model of maize root growth in MAIZSIM and its applications in Ridge-Furrow Rainfall Harvesting. Agricultural Water Management, 2021, 254, 106966.	5.6	13
12	Analogy-Based Crop Yield Forecasts Based on Temporal Similarity of Leaf Area Index. Remote Sensing, 2021, 13, 3069.	4.0	1
13	Simulations of Water and Thermal Dynamics for Soil Surfaces With Residue Mulch and Surface Runoff. Water Resources Research, 2021, 57, .	4.2	13
14	Mapping sub-field maize yields in Nebraska, USA by combining remote sensing imagery, crop simulation models, and machine learning. Precision Agriculture, 2020, 21, 678-694.	6.0	15
15	Coupled model of surface runoff and surface-subsurface water movement. Advances in Water Resources, 2020, 137, 103499.	3.8	11
16	A generic composite measure of similarity between geospatial variables. Ecological Informatics, 2020, 60, 101169.	5.2	1
17	Evaluation of Different Crop Models for Simulating Rice Development and Yield in the U.S. Mississippi Delta. Agronomy, 2020, 10, 1905.	3.0	6
18	Low-Tunnel Strawberry Production: Comparison of Cultivars and Films. International Journal of Fruit Science, 2020, 20, S705-S732.	2.4	4

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19	Development of an automated gridded crop growth simulation support system for distributed computing with virtual machines. Computers and Electronics in Agriculture, 2020, 169, 105196.	7.7	7
20	Cultivar coefficient stability and effects on yield projections in the SPUDSIM model. Agronomy Journal, 2020, 112, 828-843.	1.8	5
21	Evaluation of the agricultural policy environmental extender (APEX) for the Chesapeake Bay watershed. Agricultural Water Management, 2019, 221, 477-485.	5.6	10
22	Combined effects of drought and CO₂ enrichment on foliar metabolites of potato (Solanum tuberosum L.) cultivars. Journal of Plant Interactions, 2019, 14, 110-118.	2.1	10
23	Maize water use and yield in the solar corridor system: a simulation study. , 2019, , 57-78.		0
24	Interactive effects of temperature and phosphorus nutrition on soybean: leaf photosynthesis, chlorophyll fluorescence, and nutrient efficiency. Photosynthetica, 2019, 57, 248-257.	1.7	11
25	Ratooning as an adaptive management tool for climatic change in rice systems along a north-south transect in the southern Mississippi valley. Agricultural and Forest Meteorology, 2018, 263, 409-416.	4.8	25
26	Regional food production and land redistribution as adaptation to climate change in the U.S. Northeast Seaboard. Computers and Electronics in Agriculture, 2018, 154, 54-70.	7.7	8
27	Phosphorus Nutrition Affects Temperature Response of Soybean Growth and Canopy Photosynthesis. Frontiers in Plant Science, 2018, 9, 1116.	3.6	35
28	Low Tunnels as a Strawberry Breeding Tool and Season-Extending Production System. International Journal of Fruit Science, 2017, 17, 233-258.	2.4	18
29	Relationship between photosynthetic pigments and chlorophyll fluorescence in soybean under varying phosphorus nutrition at ambient and elevated CO₂. Photosynthetica, 2017, 55, 421-433.	1.7	49
30	A potato model intercomparison across varying climates and productivity levels. Global Change Biology, 2017, 23, 1258-1281.	9.5	90
31	Parameter Estimation of the Farquharâ€"von Caemmererâ€"Berry Biochemical Model from Photosynthetic Carbon Dioxide Response Curves. Sustainability, 2017, 9, 1288.	3.2	8
32	Relationship of Strawberry Yield with Microclimate Factors in Open and Covered Raised-Bed Production. Transactions of the ASABE, 2017, 60, 1511-1525.	1.1	8
33	Quantitative Effects of Phosphorus on Maize Canopy Photosynthesis and Biomass. Crop Science, 2017, 57, 3156-3169.	1.8	22
34	Climate, Water Management, and Land Use: Estimating Potential Potato and Corn Production in the U.S. Northeastern Seaboard Region. Transactions of the ASABE, 2016, 59, 1539-1553.	1.1	17
35	Proposed Standards for Peer-Reviewed Publication of Computer Code. Agronomy Journal, 2016, 108, 1782-1786.	1.8	2
36	Climate Change and Potato: Responses to Carbon Dioxide, Temperature, and Drought. Advances in Agricultural Systems Modeling, 2016, , 69-90.	0.3	1

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37	Random Forests for Global and Regional Crop Yield Predictions. PLoS ONE, 2016, 11, e0156571.	2.5	377
38	Combined effects of <scp>CO₂</scp> enrichment, diurnal light levels and water stress on foliar metabolites of potato plants grown in naturally sunlit controlled environment chambers. Physiologia Plantarum, 2015, 153, 243-252.	5.2	21
39	Effects of CO2 enrichment and drought pretreatment on metabolite responses to water stress and subsequent rehydration using potato tubers from plants grown in sunlit chambers. Journal of Plant Physiology, 2015, 189, 126-136.	3.5	13
40	Improving potato drought simulations: Assessing water stress factors using a coupled model. Agricultural and Forest Meteorology, 2015, 200, 144-155.	4.8	21
41	Potato Gas Exchange Response to Drought Cycles under Elevated Carbon Dioxide. Agronomy Journal, 2014, 106, 2024-2034.	1.8	6
42	Biophysical Constraints to Potential Production Capacity of Potato across the U.S. Eastern Seaboard Region. Agronomy Journal, 2014, 106, 43-56.	1.8	10
43	Growth, nutrient dynamics, and efficiency responses to carbon dioxide and phosphorus nutrition in soybean. Journal of Plant Interactions, 2014, 9, 838-849.	2.1	25
44	Modeling potato root growth and water uptake under water stress conditions. Agricultural and Forest Meteorology, 2014, 194, 37-49.	4.8	21
45	Plant Density and Leaf Area Index Effects on the Distribution of Light Transmittance to the Soil Surface in Maize. Agronomy Journal, 2014, 106, 1828-1837.	1.8	46
46	Effect of Phosphorus Nutrition on Growth and Physiology of Cotton Under Ambient and Elevated Carbon Dioxide. Journal of Agronomy and Crop Science, 2013, 199, 436-448.	3.5	45
47	Carbon dioxide diffusion across stomata and mesophyll and photo-biochemical processes as affected by growth CO2 and phosphorus nutrition in cotton. Journal of Plant Physiology, 2013, 170, 801-813.	3.5	97
48	EFFECTS OF CARBON DIOXIDE AND PHOSPHORUS SUPPLY ON POTATO DRY MATTER ALLOCATION AND CANOPY MORPHOLOGY. Journal of Plant Nutrition, 2013, 36, 566-586.	1.9	26
49	Response of Potato Gas Exchange and Productivity to Phosphorus Deficiency and Carbon Dioxide Enrichment. Crop Science, 2012, 52, 1803-1815.	1.8	32
50	Modeling Temperature Responses of Leaf Growth, Development, and Biomass in Maize with MAIZSIM. Agronomy Journal, 2012, 104, 1523-1537.	1.8	62
51	Nitrogen Concentration and Dry-Matter Accumulation in Maize Crop: Assessing Maize Nitrogen Status with an Allometric Function and a Chlorophyll Meter. Communications in Soil Science and Plant Analysis, 2012, 43, 1563-1575.	1.4	13
52	Combining explanatory crop models with geospatial data for regional analyses of crop yield using field-scale modeling units. Computers and Electronics in Agriculture, 2012, 89, 51-61.	7.7	27
53	Quantifying the measurement errors in a portable open gas-exchange system and their effects on the parameterization of Farquhar et al. model for C₃ leaves. Photosynthetica, 2012, 50, 223-238.	1.7	8
54	Effect of elevated carbon dioxide and water stress on gas exchange and water use efficiency in corn. Agricultural and Forest Meteorology, 2011, 151, 378-384.	4.8	46

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55	Evaluating County-level Potential Production Capacity of Potatoes for Maine using the Crop Model SPUDSIM. , 2011, , .		1
56	Potato Stem Density Effects on Canopy Development and Production. Potato Research, 2011, 54, 137-155.	2.7	6
57	Simulation of potato gas exchange rates using SPUDSIM. Agricultural and Forest Meteorology, 2010, 150, 432-442.	4.8	30
58	Yield response of potato to spatially patterned nitrogen application. Agriculture, Ecosystems and Environment, 2009, 129, 107-116.	5.3	25
59	Simulating leaf area of corn plants at contrasting water status. Agricultural and Forest Meteorology, 2009, 149, 1161-1167.	4.8	27
60	Elevated carbon dioxide and water stress effects on potato canopy gas exchange, water use, and productivity. Agricultural and Forest Meteorology, 2008, 148, 1109-1122.	4.8	81
61	Interactive Effects of Carbon Dioxide and Water Stress on Potato Canopy Growth and Development. Agronomy Journal, 2008, 100, 711-719.	1.8	28
62	Simulation of Nitrogen Demand and Uptake in Potato Using a Carbon-Assimilation Approach. , 2008, , 219-243.		0
63	Evapotranspiration Measurement in Controlled Environment Chambers: A Comparison between Time Domain Reflectometry and Accumulation of Condensate from Cooling Coils. Agronomy Journal, 2007, 99, 166-173.	1.8	36
64	Modeling expansion of individual leaves in the potato canopy. Agricultural and Forest Meteorology, 2006, 139, 84-93.	4.8	33
65	Temperature Influence on Potato Leaf and Branch Distribution and on Canopy Photosynthetic Rate. Agronomy Journal, 2006, 98, 1442-1452.	1.8	77
66	Approaches to Modeling Potato Leaf Appearance Rate. Agronomy Journal, 2006, 98, 522-528.	1.8	40
67	Whole Plant Photosynthesis, Development, and Carbon Partitioning in Potato as a Function of Temperature. Agronomy Journal, 2006, 98, 1195-1203.	1.8	117
68	Concurrent Science and Engineering for Phytomation Systems. J Agricultural Meteorology, 2003, 59, 93-101.	1.5	8
69	MODELING AND CONTROL FOR CLOSED ENVIRONMENT PLANT PRODUCTION SYSTEMS. Acta Horticulturae, 2002, 593, 85-92.	0.2	3
70	Object-Oriented Analysis and Modeling of Closed Plant Production Systems. , 2000, , 53-58.		2
71	Removal of Uranium from Water Using Terrestrial Plants. Environmental Science & Technology, 1997, 31, 3468-3474.	10.0	223
72	Top Level Modeling of Biomass Production Component of ALSS. , 0, , .		10

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73	Testing Approaches and Components in Physiologically Based Crop Models for Sensitivity to Climatic Factors. Advances in Agricultural Systems Modeling, 0, , 1-31.	0.3	1
74	Baselines, Trajectories, and Scenarios: Exploring Agricultural Production in the Northeast U.S.. Journal of Agriculture, Food Systems, and Community Development, 0, , 1-15.	2.4	5
75	Monitoring the Vulnerability and Adaptation Planning for Food Security. , 0, , 36-46.		0