Gerrit Hoogenboom

List of Publications by Citations

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 340
 10,918
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 88

 papers
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 g-index

 378
 13,272
 4.3
 6.45

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
340	Rising temperatures reduce global wheat production. <i>Nature Climate Change</i> , 2015 , 5, 143-147	21.4	1048
339	Methodologies for simulating impacts of climate change on crop production. <i>Field Crops Research</i> , 2011 , 124, 357-368	5.5	401
338	Contribution of agrometeorology to the simulation of crop production and its applications. <i>Agricultural and Forest Meteorology</i> , 2000 , 103, 137-157	5.8	285
337	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
336	Climate change impact and adaptation for wheat protein. <i>Global Change Biology</i> , 2019 , 25, 155-173	11.4	177
335	Application of the CSM-CERES-Maize model for planting date evaluation and yield forecasting for maize grown off-season in a subtropical environment. <i>European Journal of Agronomy</i> , 2007 , 27, 165-177	, 5	161
334	Nitrate leaching in a silage maize field under different irrigation and nitrogen fertilizer rates. <i>Agricultural Water Management</i> , 2009 , 96, 946-954	5.9	155
333	An evaluation of the statistical methods for testing the performance of crop models with observed data. <i>Agricultural Systems</i> , 2014 , 127, 81-89	6.1	153
332	Integration of MODIS LAI and vegetation index products with the CSMITERESIMaize model for corn yield estimation. <i>International Journal of Remote Sensing</i> , 2011 , 32, 1039-1065	3.1	153
331	Corn-yield estimation through assimilation of remotely sensed data into the CSM-CERES-Maize model. <i>International Journal of Remote Sensing</i> , 2008 , 29, 3011-3032	3.1	148
330	From accessing to assessing forecasts: an end-to-end study of participatory climate forecast dissemination in Burkina Faso (West Africa). <i>Climatic Change</i> , 2009 , 92, 433-460	4.5	133
329	Agricultural production systems modelling and software: Current status and future prospects. <i>Environmental Modelling and Software</i> , 2015 , 72, 276-286	5.2	123
328	Adaptation to climate change and climate variability: The importance of understanding agriculture as performance. <i>Njas - Wageningen Journal of Life Sciences</i> , 2011 , 57, 179-185	7	119
327	Modifying DSSAT Crop Models for Low-Input Agricultural Systems Using a Soil Organic Matter R esidue Module from CENTURY. <i>Agronomy Journal</i> , 2002 , 94, 462-474	2.2	119
326	Irrigation strategies to improve the water use efficiency of wheatthaize double cropping systems in North China Plain. <i>Agricultural Water Management</i> , 2010 , 97, 1165-1174	5.9	111
325	Interfacing Geographic Information Systems with Agronomic Modeling: A Review. <i>Agronomy Journal</i> , 1999 , 91, 761-772	2.2	109
324	Multi-model projections of future climate and climate change impacts uncertainty assessment for cotton production in Pakistan. <i>Agricultural and Forest Meteorology</i> , 2018 , 253-254, 94-113	5.8	101

(2017-2015)

323	Assessment of maize growth and yield using crop models under present and future climate in southwestern Ethiopia. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 252-265	5.8	97
322	Simulating Effects of Genes for Physiological Traits in a Process-Oriented Crop Model. <i>Agronomy Journal</i> , 1996 , 88, 416-422	2.2	97
321	The uncertainty of crop yield projections is reduced by improved temperature response functions. <i>Nature Plants</i> , 2017 , 3, 17102	11.5	95
320	Modelling crop yield, soil water content and soil temperature for a soybeanthaize rotation under conventional and conservation tillage systems in Northeast China. <i>Agricultural Water Management</i> , 2013 , 123, 32-44	5.9	94
319	Roundup Ready Soybean: Glyphosate Effects on Fusarium solani Root Colonization and Sudden Death Syndrome. <i>Agronomy Journal</i> , 2003 , 95, 114	2.2	94
318	Using the DSSAT-CERES-Maize model to simulate crop yield and nitrogen cycling in fields under long-term continuous maize production. <i>Nutrient Cycling in Agroecosystems</i> , 2011 , 89, 313-328	3.3	93
317	From genome to crop: integration through simulation modeling. Field Crops Research, 2004, 90, 145-163	5.5	93
316	Root Growth Rate of Soybean as Affected by Drought Stress1. <i>Agronomy Journal</i> , 1987 , 79, 607-614	2.2	92
315	Climate warming and management impact on the change of phenology of the rice-wheat cropping system in Punjab, Pakistan. <i>Field Crops Research</i> , 2019 , 230, 46-61	5.5	88
314	Analysis and classification of data sets for calibration and validation of agro-ecosystem models. <i>Environmental Modelling and Software</i> , 2015 , 72, 402-417	5.2	83
313	Forecast Skill and Farmers Skills: Seasonal Climate Forecasts and Agricultural Risk Management in the Southeastern United States. <i>Weather, Climate, and Society</i> , 2010 , 2, 44-59	2.3	78
312	Artificial neural networks for automated year-round temperature prediction. <i>Computers and Electronics in Agriculture</i> , 2009 , 68, 52-61	6.5	76
311	Interaction of water and nitrogen on maize grown for silage. <i>Agricultural Water Management</i> , 2009 , 96, 809-821	5.9	75
310	Climate change impact on global potato production. European Journal of Agronomy, 2018, 100, 87-98	5	75
309	Using pattern recognition for estimating cultivar coefficients of a crop simulation model. <i>Field Crops Research</i> , 2009 , 111, 290-302	5.5	73
308	Simulation-Based Analysis of Effects of Vrn and Ppd Loci on Flowering in Wheat. <i>Crop Science</i> , 2008 , 48, 678-687	2.4	72
307	Simulating water content, crop yield and nitrate-N loss under free and controlled tile drainage with subsurface irrigation using the DSSAT model. <i>Agricultural Water Management</i> , 2011 , 98, 1105-1111	5.9	71
306	Quantification the impacts of climate change and crop management on phenology of maize-based cropping system in Punjab, Pakistan. <i>Agricultural and Forest Meteorology</i> , 2017 , 247, 42-55	5.8	70

305	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
304	Multimodel ensembles improve predictions of crop-environment-management interactions. <i>Global Change Biology</i> , 2018 , 24, 5072-5083	11.4	68
303	Impact of Climate Change on the RiceWheat Cropping System of Pakistan. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2015 , 219-258		65
302	A potato model intercomparison across varying climates and productivity levels. <i>Global Change Biology</i> , 2017 , 23, 1258-1281	11.4	64
301	The influence of aerosols on crop production: A study using the CERES crop model. <i>Agricultural Systems</i> , 2006 , 89, 390-413	6.1	64
300	Calibration and validation of APSIM-Wheat and CERES-Wheat for spring wheat under rainfed conditions: Models evaluation and application. <i>Computers and Electronics in Agriculture</i> , 2016 , 123, 384-	4 6 .5	63
299	Evaluation of Satellite-Based, Modeled-Derived Daily Solar Radiation Data for the Continental United States. <i>Agronomy Journal</i> , 2011 , 103, 1242-1251	2.2	61
298	Effects of Estimating Soil Hydraulic Properties and Root Growth Factor on Soil Water Balance and Crop Production. <i>Agronomy Journal</i> , 2009 , 101, 572-583	2.2	61
297	Evaluation of NASA satellite- and assimilation model-derived long-term daily temperature data over the continental US. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 1574-1584	5.8	61
296	The DSSAT crop modeling ecosystem. Burleigh Dodds Series in Agricultural Science, 2019, 173-216	2	61
295	Gene-Based Approaches to Crop Simulation. <i>Agronomy Journal</i> , 2003 , 95, 52	2.2	60
294	Integrated description of agricultural field experiments and production: The ICASA Version 2.0 data standards. <i>Computers and Electronics in Agriculture</i> , 2013 , 96, 1-12	6.5	59
293	Application of the CSM-CERES-Rice model for evaluation of plant density and nitrogen management of fine transplanted rice for an irrigated semiarid environment. <i>Precision Agriculture</i> , 2012 , 13, 200-218	5.6	58
292	Using the WISE database to parameterize soil inputs for crop simulation models. <i>Computers and Electronics in Agriculture</i> , 2007 , 56, 85-100	6.5	58
291	Support vector regression with reduced training sets for air temperature prediction: a comparison with artificial neural networks. <i>Neural Computing and Applications</i> , 2011 , 20, 151-159	4.8	57
290	Comparison of Priestley-Taylor and FAO-56 Penman-Monteith for Daily Reference Evapotranspiration Estimation in Georgia. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2007 , 133, 175-182	1.1	57
289	Weather analogue: A tool for real-time prediction of daily weather data realizations based on a modified k-nearest neighbor approach. <i>Environmental Modelling and Software</i> , 2008 , 23, 703-713	5.2	54
288	BEANGRO: A Process-Oriented Dry Bean Model with a Versatile User Interface. <i>Agronomy Journal</i> , 1994 , 86, 182-190	2.2	54

287	Modifying DSSAT Crop Models for Low-Input Agricultural Systems Using a Soil Organic Matter R esidue Module from CENTURY 2002 , 94, 462		54	
286	Estimation of meteorological drought indices based on AgMERRA precipitation data and station-observed precipitation data. <i>Journal of Arid Land</i> , 2017 , 9, 797-809	2.2	53	
285	Evaluation of the DSSAT-CSM for simulating yield and soil organic C and N of a long-term maize and wheat rotation experiment in the Loess Plateau of Northwestern China. <i>Agricultural Systems</i> , 2015 , 135, 90-104	6.1	52	
284	The Role of Crop Systems Simulation in Agriculture and Environment. <i>International Journal of Agricultural and Environmental Information Systems</i> , 2010 , 1, 41-54	1.2	52	
283	Simulated CSM-CROPGRO-cotton yield under projected future climate by SimCLIM for southern Punjab, Pakistan. <i>Agricultural Systems</i> , 2018 , 167, 213-222	6.1	50	
282	Maize ethanol feedstock production and net energy value as affected by climate variability and crop management practices. <i>Agricultural Systems</i> , 2009 , 100, 11-21	6.1	48	
281	Estimating the impacts of climate change on crop yields and N2O emissions for conventional and no-tillage in Southwestern Ontario, Canada. <i>Agricultural Systems</i> , 2018 , 159, 187-198	6.1	46	
280	Evaluation of a Crop Simulation Model that Incorporates Gene Action. <i>Agronomy Journal</i> , 1997 , 89, 61.	3-6210	46	
279	A Computer Program to Analyze Single-Season Crop Model Outputs. <i>Agronomy Journal</i> , 1994 , 86, 860-	-8 <u>68</u> 2	46	
278	Impacts of 1.5 versus 2.0 °C on cereal yields in the West African Sudan Savanna. <i>Environmental Research Letters</i> , 2018 , 13, 034014	6.2	45	
277	Modeling Dormant Bud Cold Hardiness and Budbreak in Twenty-Three Vitis Genotypes Reveals Variation by Region of Origin. <i>American Journal of Enology and Viticulture</i> , 2014 , 65, 59-71	2.2	44	
276	Improving Physiological Assumptions Of Simulation Models By Using Gene-Based Approaches. <i>Agronomy Journal</i> , 2003 , 95, 82	2.2	44	
275	The impact of climate warming and crop management on phenology of sunflower-based cropping systems in Punjab, Pakistan. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 270-282	5.8	43	
274	Simulation of potato yield, nitrate leaching, and profit margins as influenced by irrigation and nitrogen management in different soils and production regions. <i>Agricultural Water Management</i> , 2016 , 171, 120-130	5.9	43	
273	Can Egypt become self-sufficient in wheat?. Environmental Research Letters, 2018, 13, 094012	6.2	43	
272	Climate change impact on Mexico wheat production. <i>Agricultural and Forest Meteorology</i> , 2018 , 263, 373-387	5.8	43	
271	Interactive effects of elevated [CO2] and temperature on growth and development of a short- and long-season peanut cultivar. <i>Climatic Change</i> , 2009 , 93, 389-406	4.5	42	
270	Evaluation of FAO-56 crop coefficient procedures for deficit irrigation management of cotton in a humid climate. <i>Agricultural Water Management</i> , 2007 , 91, 33-42	5.9	42	

269	Towards shifting planting date as an adaptation practice for rainfed wheat response to climate change. <i>Agricultural Water Management</i> , 2017 , 186, 108-119	5.9	41	
268	Reanalysis of a global soil database for crop and environmental modeling. <i>Environmental Modelling and Software</i> , 2012 , 35, 163-170	5.2	41	
267	Assessing crop management options with crop simulation models based on generated weather data. <i>Field Crops Research</i> , 2007 , 103, 198-207	5.5	41	
266	A Computer Program to Analyze Multiple-Season Crop Model Outputs. <i>Agronomy Journal</i> , 1995 , 87, 13	1 <u>-1</u> 36	41	
265	Variation in cold hardiness of sweet cherry flower buds through different phenological stages. <i>Scientia Horticulturae</i> , 2014 , 172, 161-167	4.1	40	
264	AEGIS/WIN: A Computer Program for the Application of Crop Simulation Models Across Geographic Areas. <i>Agronomy Journal</i> , 1997 , 89, 919-928	2.2	40	
263	Soybean (Glycine max (L.) Merr.) growth and development response to CO2 enrichment under different temperature regimes. <i>European Journal of Agronomy</i> , 2006 , 24, 52-61	5	40	
262	Optimizing irrigation management for a spatially variable soybean field. <i>Agricultural Systems</i> , 2003 , 76, 359-377	6.1	40	
261	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. <i>Irrigation Science</i> , 2013 , 31, 491-506	3.1	39	
260	Rooting traits of peanut genotypes with different yield responses to pre-flowering drought stress. <i>Field Crops Research</i> , 2011 , 120, 262-270	5.5	39	
259	Modeling responses of dryland spring triticale, proso millet and foxtail millet to initial soil water in the High Plains. <i>Field Crops Research</i> , 2009 , 113, 48-63	5.5	39	
258	Impact of generated solar radiation on simulated crop growth and yield. <i>Ecological Modelling</i> , 2008 , 210, 312-326	3	39	
257	Evaluation of two evapotranspiration approaches simulated with the CSMITERESIMaize model under different irrigation strategies and the impact on maize growth, development and soil moisture content for semi-arid conditions. <i>Agricultural and Forest Meteorology</i> , 2013 , 176, 64-76	5.8	38	
256	A genetic algorithm to refine input data selection for air temperature prediction using artificial neural networks. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2253-2260	7.5	38	
255	Predicting growth and yield of winter rapeseed in a Mediterranean environment: Model adaptation at a field scale. <i>Field Crops Research</i> , 2013 , 144, 100-112	5.5	37	
254	Beyond the fi tlintroducing climate forecasts among organic farmers in Georgia (United States). <i>Climatic Change</i> , 2011 , 109, 791-799	4.5	36	
253	Effect of the interaction of water and nitrogen on sunflower under drip irrigation in an arid region. <i>Agricultural Water Management</i> , 2016 , 171, 162-172	5.9	36	
252	Remote Sensing and Geospatial Technological Applications for Site-specific Management of Fruit and Nut Crops: A Review. <i>Remote Sensing</i> , 2010 , 2, 1973-1997	5	35	

251	Quantification of the impacts of climate warming and crop management on canola phenology in Punjab, Pakistan. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 442-452	3.9	34
250	Coordinating AgMIP data and models across global and regional scales for 1.5°C and 2.0°C assessments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	34
249	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 3.2	34
248	Soil carbon dynamics and crop residue yields of cropping systems in the Northern Guinea Savanna of Burkina Faso. <i>Soil and Tillage Research</i> , 2007 , 93, 138-151	6.5	34
247	Evaluation of the OILCROP-SUN model for sunflower hybrids under different agro-meteorological conditions of PunjabPakistan. <i>Field Crops Research</i> , 2016 , 188, 17-30	5.5	33
246	A review of coupled hydrologic and crop growth models. <i>Agricultural Water Management</i> , 2019 , 224, 105746	5.9	33
245	A comparison of the performance of the CSM-CERES-Maize and EPIC models using maize variety trial data. <i>Agricultural Systems</i> , 2017 , 150, 109-119	6.1	33
244	Soil organic carbon dynamics and crop yield for different crop rotations in a degraded ferruginous tropical soil in a semi-arid region: a simulation approach. <i>Journal of Agricultural Science</i> , 2011 , 149, 579-	593	33
243	A SIMPLE crop model. European Journal of Agronomy, 2019, 104, 97-106	5	32
242	Modeling the effect of a heat wave on maize production in the USA and its implications on food security in the developing world. <i>Weather and Climate Extremes</i> , 2014 , 5-6, 67-77	6	32
241	Growth and development of cotton (Gossypium hirsutum L.) in response to CO2 enrichment under two different temperature regimes. <i>Environmental and Experimental Botany</i> , 2009 , 67, 178-187	5.9	32
240	Biophysical and economic implications for agriculture of +1.5° and +2.0°C global warming using AgMIP Coordinated Global and Regional Assessments. <i>Climate Research</i> , 2018 , 76, 17-39	1.6	32
239	Integrating growth stage deficit irrigation into a process based crop model. <i>Agricultural and Forest Meteorology</i> , 2017 , 243, 84-92	5.8	31
238	An integrated crop and hydrologic modeling system to estimate hydrologic impacts of crop irrigation demands. <i>Environmental Modelling and Software</i> , 2015 , 72, 341-355	5.2	31
237	Photothermal impact on maize performance: a simulation approach. <i>Ecological Modelling</i> , 2004 , 180, 277-290	3	31
236	Simulating the impact of water saving irrigation and conservation agriculture practices for riceWheat systems in the irrigated semi-arid drylands of Central Asia. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 266-280	5.8	30
235	Uncertainty Analysis and Parameter Estimation for the CSM-CROPGRO-Cotton Model. <i>Agronomy Journal</i> , 2012 , 104, 1363-1373	2.2	30
234	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food,	14.4	30

233	Modelling Climate Change Impacts and Adaptation Strategies for Sunflower in Pakistan. <i>Outlook on Agriculture</i> , 2016 , 45, 39-45	2.9	30
232	Towards modeling soil texture-specific sensitivity of wheat yield and water balance to climatic changes. <i>Agricultural Water Management</i> , 2016 , 177, 248-263	5.9	30
231	Predicting Key Phenological Stages for 17 Grapevine Cultivars (Vitis vinifera L.). <i>American Journal of Enology and Viticulture</i> , 2017 , 68, 60-72	2.2	29
230	Water-Yield Relations and Water Use Efficiency of Maize Under Nitrogen Fertigation for Semiarid Environments: Experiment and Synthesis. <i>Advances in Agronomy</i> , 2015 , 175-229	7.7	29
229	The impact of potential errors in rainfall observation on the simulation of crop growth, development and yield. <i>Ecological Modelling</i> , 2002 , 157, 1-21	3	29
228	Shoot Growth Rate of Soybean as Affected by Drought Stress1. <i>Agronomy Journal</i> , 1987 , 79, 598-607	2.2	29
227	Models Calibration and Evaluation 2020 , 151-178		29
226	Determining optimum sowing date of wheat using CSM-CERES-Wheat model. <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2015 , 14, 189-199	3.3	28
225	Water use and water use efficiency of sweet corn under different weather conditions and soil moisture regimes. <i>Agricultural Water Management</i> , 2009 , 96, 1369-1376	5.9	28
224	Simulated Canola Yield Responses to Climate Change and Adaptation in Canada. <i>Agronomy Journal</i> , 2018 , 110, 133-146	2.2	28
223	Estimating irrigation water use for maize in the Southeastern USA: A modeling approach. <i>Agricultural Water Management</i> , 2012 , 107, 104-111	5.9	27
222	Evaluation of the Weather Research and Forecasting model for two frost events. <i>Computers and Electronics in Agriculture</i> , 2008 , 64, 234-247	6.5	27
221	Freezing tolerance of apple flower buds. <i>Scientia Horticulturae</i> , 2016 , 198, 344-351	4.1	26
220	Coupling and testing a new soil water module in DSSAT CERES-Maize model for maize production under semi-arid condition. <i>Agricultural Water Management</i> , 2016 , 163, 90-99	5.9	26
219	Response of soybean genotypes to different irrigation regimes in a humid region of the southeastern USA. <i>Agricultural Water Management</i> , 2010 , 97, 981-987	5.9	26
218	Estimating the demand for irrigation water in a humid climate: A case study from the southeastern United States. <i>Agricultural Water Management</i> , 2009 , 96, 1421-1428	5.9	26
217	Modeling the water and nitrogen productivity of sunflower using OILCROP-SUN model in Pakistan. <i>Field Crops Research</i> , 2017 , 205, 67-77	5.5	25
216	A multi-scale and multi-model gridded framework for forecasting crop production, risk analysis, and climate change impact studies. <i>Environmental Modelling and Software</i> , 2019 , 115, 144-154	5.2	25

215	A web-based fuzzy expert system for frost warnings in horticultural crops. <i>Environmental Modelling and Software</i> , 2012 , 35, 84-91	5.2	25	
214	Cotton yields as influenced by ENSO at different planting dates and spatial aggregation levels. <i>Agricultural Systems</i> , 2012 , 111, 45-52	6.1	25	
213	A multi-objective approach to water and nutrient efficiency for sustainable agricultural intensification. <i>Agricultural Systems</i> , 2019 , 173, 289-302	6.1	24	
212	Classification of root distribution patterns and their contributions to yield in peanut genotypes under mid-season drought stress. <i>Field Crops Research</i> , 2012 , 127, 181-190	5.5	24	
211	Designing a Peanut Ideotype for a Target Environment Using the CSM-CROPGRO-Peanut Model. <i>Crop Science</i> , 2011 , 51, 1887-1902	2.4	24	
210	Simulating the effect of long-term fertilization on maize yield and soil C/N dynamics in northeastern China using DSSAT and CENTURY-based soil model. <i>Nutrient Cycling in Agroecosystems</i> , 2013 , 95, 287-303	3.3	23	
209	Response of sunflower hybrids to nitrogen application grown under different agro-environments. <i>Journal of Plant Nutrition</i> , 2017 , 40, 82-92	2.3	23	
208	Net energy value of maize ethanol as a response to different climate and soil conditions in the southeastern USA. <i>Biomass and Bioenergy</i> , 2009 , 33, 1055-1064	5.3	23	
207	Comparison of three calibration methods for modeling rice phenology. <i>Agricultural and Forest Meteorology</i> , 2020 , 280, 107785	5.8	23	
206	Yield, quality and drought sensitivity of tomato to water deficit during different growth stages. <i>Scientia Agricola</i> , 2020 , 77,	2.5	23	
205	Climate change impacts on crop yield, soil water balance and nitrate leaching in the semiarid and humid regions of Canada. <i>PLoS ONE</i> , 2018 , 13, e0207370	3.7	23	
204	Adaptation strategies for maize production under climate change for semi-arid environments. <i>European Journal of Agronomy</i> , 2020 , 115, 126040	5	22	
203	An Overview of CERESBorghum as Implemented in the Cropping System Model Version 4.5. <i>Agronomy Journal</i> , 2015 , 107, 1987-2002	2.2	22	
202	Application of the Cropping System Model (CSM)-CROPGRO-Soybean for Determining Optimum Management Strategies for Soybean in Tropical Environments. <i>Journal of Agronomy and Crop Science</i> , 2009 , 196, 231-242	3.9	22	
201	Distribution of Dry Matter Between Shoots and Roots of Irrigated and Nonirrigated Determinate Soybeans 1. <i>Agronomy Journal</i> , 1986 , 78, 807-813	2.2	22	
200	Potential adaptation strategies for rainfed soybean production in the south-eastern USA under climate change based on the CSM-CROPGRO-Soybean model. <i>Journal of Agricultural Science</i> , 2015 , 153, 798-824	1	21	
199	Land-use classification of multispectral aerial images using artificial neural networks. <i>International Journal of Remote Sensing</i> , 2009 , 30, 1989-2004	3.1	21	
198	Assessing climate change impacts on pearl millet under arid and semi-arid´environments using CSM-CERES-Millet model. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 6745-6757	5.1	21	

197	Estimation of the base temperature and growth phase duration in terms of thermal time for four grapevine cultivars. <i>International Journal of Biometeorology</i> , 2015 , 59, 1771-81	3.7	20
196	Comparison of individual and combined ANN models for prediction of air and dew point temperature. <i>Applied Intelligence</i> , 2013 , 39, 354-366	4.9	20
195	Drought tolerance mechanisms for yield responses to pre-flowering drought stress of peanut genotypes with different drought tolerant levels. <i>Field Crops Research</i> , 2013 , 144, 34-42	5.5	20
194	Experiments and Data for Model Evaluation and Application 2012, 9-18		20
193	ENSO-based climate variability affects water use efficiency of rainfed cotton grown in the southeastern USA. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 139, 629-635	5.7	20
192	Agricultural water use estimation using geospatial modeling and a geographic information system. <i>Agricultural Water Management</i> , 2004 , 67, 185-199	5.9	20
191	Simulation of Crop Growth: CROPGRO Model 2018 , 651-692		20
190	Evaluation of the CSM-CROPGRO-Canola Model for Simulating Canola Growth and Yield at West Nipissing in Eastern Canada. <i>Agronomy Journal</i> , 2016 , 108, 575-584	2.2	20
189	Using daily data from seasonal forecasts in dynamic crop models for yield prediction: A case study for rice in Nepal Terai. <i>Agricultural and Forest Meteorology</i> , 2019 , 265, 349-358	5.8	20
188	Adapting irrigated and rainfed wheat to climate change in semi-arid environments: Management, breeding options and land use change. <i>European Journal of Agronomy</i> , 2019 , 109, 125915	5	19
187	Water and Nitrogen Productivity of Maize under Semiarid Environments. <i>Crop Science</i> , 2015 , 55, 877-8	882.4	19
186	Determining optimum planting dates for rainfed wheat using the precipitation uncertainty model and adjusted crop evapotranspiration. <i>Agricultural Water Management</i> , 2013 , 126, 56-63	5.9	19
185	Distinguishing blueberry bushes from mixed vegetation land use using high resolution satellite imagery and geospatial techniques. <i>Computers and Electronics in Agriculture</i> , 2009 , 67, 51-58	6.5	19
184	Gene-based modelling for rice: an opportunity to enhance the simulation of rice growth and development?. <i>Journal of Theoretical Biology</i> , 2007 , 249, 593-605	2.3	19
183	Simulating Soybean Water Stress Effects with RZWQM and CROPGRO Models. <i>Agronomy Journal</i> , 2002 , 94, 1234-1243	2.2	19
182	Methodology to estimate rice genetic coefficients for the CSM-CERES-Rice model using GENCALC and GLUE genetic coefficient estimators. <i>Journal of Agricultural Science</i> , 2018 , 156, 482-492	1	18
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