Cheryl H Porter

List of Publications by Year
in descending order

27 papers	1,998 citations	394421 19 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	2656 citing authors

#	Article	IF	Citations
1	Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254.	6.1	403
2	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food, 2021, 2, 873-885.	14.0	263
3	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. Agricultural Systems, 2017, 155, 269-288.	6.1	261
4	The DSSAT crop modeling ecosystem. Burleigh Dodds Series in Agricultural Science, 2019, , 173-216.	0.2	147
5	Towards a new generation of agricultural system data, models and knowledge products: Information and communication technology. Agricultural Systems, 2017, 155, 200-212.	6.1	143
6	Integrated description of agricultural field experiments and production: The ICASA Version 2.0 data standards. Computers and Electronics in Agriculture, 2013, 96, 1-12.	7.7	80
7	Performance of the SUBSTOR-potato model across contrasting growing conditions. Field Crops Research, 2017, 202, 57-76.	5.1	75
8	A SIMPLE crop model. European Journal of Agronomy, 2019, 104, 97-106.	4.1	67
9	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub‐Saharan Africa. Global Change Biology, 2020, 26, 5942-5964.	9.5	60
10	Performance of DSSAT-Nwheat across a wide range of current and future growing conditions. European Journal of Agronomy, 2016, 81, 27-36.	4.1	58
11	Modeling organic carbon and carbon-mediated soil processes in DSSAT v4.5. Operational Research, 2010, 10, 247-278.	2.0	55
12	Extension of an Existing Model for Soil Water Evaporation and Redistribution under High Water Content Conditions. Soil Science Society of America Journal, 2009, 73, 792-801.	2.2	51
13	Coordinating AgMIP data and models across global and regional scales for 1.5°C and 2.0°C assessments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160455.	3.4	48
14	A multi-scale and multi-model gridded framework for forecasting crop production, risk analysis, and climate change impact studies. Environmental Modelling and Software, 2019, 115, 144-154.	4.5	48
15	Harmonization and translation of crop modeling data to ensure interoperability. Environmental Modelling and Software, 2014, 62, 495-508.	4.5	45
16	Integrating growth stage deficit irrigation into a process based crop model. Agricultural and Forest Meteorology, 2017, 243, 84-92.	4.8	42
17	Calibration‐induced uncertainty of the EPIC model to estimate climate change impact on global maize yield. Journal of Advances in Modeling Earth Systems, 2016, 8, 1358-1375.	3.8	37
18	FACE‐IT: A science gateway for food security research. Concurrency Computation Practice and Experience, 2015, 27, 4423-4436.	2.2	25

#	ARTICLE	IF	CITATIONS
19	Sensitivity of Maize Yield in Smallholder Systems to Climate Scenarios in Semi-Arid Regions of West Africa: Accounting for Variability in Farm Management Practices. Agronomy, 2019, 9, 639.	3.0	22
20	Climate adaptation imperatives: untapped global maize yield opportunities. International Journal of Agricultural Sustainability, 2014, 12, 471-486.	3.5	17
21	Fuzzy Union to Assess Climate Suitability of Annual Ryegrass (Lolium multiflorum), Alfalfa (Medicago) Tj ETQq1 1 0.784314 rgBT /Overlo	3.3	11
22	Improving agricultural knowledge management: The AgTrials experience. F1000Research, 2017, 6, 317.	1.6	8
23	Sustainable Use of Groundwater May Dramatically Reduce Irrigated Production of Maize, Soybean, and Wheat. Earth's Future, 2022, 10, .	6.3	8
24	Estimating the potential impact of climate change on sunflower yield in the Konya province of Turkey. Journal of Agricultural Science, 2020, 158, 806-818.	1.3	7
25	START: A data preparation tool for crop simulation models using web-based soil databases. Computers and Electronics in Agriculture, 2018, 154, 256-264.	7.7	6
26	Improving agricultural knowledge management: The AgTrials experience. F1000Research, 2017, 6, 317.	1.6	6
27	Reuse of process-based models: automatic transformation into many programming languages and simulation platforms. In Silico Plants, 2020, 2, .	1.9	4