

John R Porter

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

6,842
citations

109321

35
h-index

138484

58
g-index

61
all docs

61
docs citations

61
times ranked

7646
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperatures and the growth and development of wheat: a review. <i>European Journal of Agronomy</i> , 1999, 10, 23-36.	4.1	904
2	Crop responses to climatic variation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 2021-2035.	4.0	764
3	Temperatures and the growth and development of maize and rice: a review. <i>Global Change Biology</i> , 2014, 20, 408-417.	9.5	521
4	Temperature variability and the yield of annual crops. <i>Agriculture, Ecosystems and Environment</i> , 2000, 82, 159-167.	5.3	506
5	A model for fossil energy use in Danish agriculture used to compare organic and conventional farming. <i>Agriculture, Ecosystems and Environment</i> , 2001, 87, 51-65.	5.3	347
6	Climate change impact and adaptation for wheat protein. <i>Global Change Biology</i> , 2019, 25, 155-173.	9.5	312
7	Crop "climate models need an overhaul. <i>Nature Climate Change</i> , 2011, 1, 175-177.	18.8	295
8	Modeling Grain Nitrogen Accumulation and Protein Composition to Understand the Sink/Source Regulations of Nitrogen Remobilization for Wheat. <i>Plant Physiology</i> , 2003, 133, 1959-1967.	4.8	291
9	Agroecology, scaling and interdisciplinarity. <i>Agriculture, Ecosystems and Environment</i> , 2003, 100, 39-51.	5.3	252
10	AFRCWHEAT2: A model of the growth and development of wheat incorporating responses to water and nitrogen. <i>European Journal of Agronomy</i> , 1993, 2, 69-82.	4.1	178
11	Rising temperatures are likely to reduce crop yields. <i>Nature</i> , 2005, 436, 174-174.	27.8	174
12	Modelling protein content and composition in relation to crop nitrogen dynamics for wheat. <i>European Journal of Agronomy</i> , 2006, 25, 138-154.	4.1	173
13	The Value of Producing Food, Energy, and Ecosystem Services within an Agro-Ecosystem. <i>Ambio</i> , 2009, 38, 186-193.	5.5	166
14	Decoupling of greenhouse gas emissions from global agricultural production: 1970 "2050. <i>Global Change Biology</i> , 2016, 22, 763-781.	9.5	161
15	Ten facts about land systems for sustainability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	157
16	Soil properties, crop production and greenhouse gas emissions from organic and inorganic fertilizer-based arable cropping systems. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 584-594.	5.3	116
17	Global wheat production with 1.5 and 2.0 "C above pre-industrial warming. <i>Global Change Biology</i> , 2019, 25, 1428-1444.	9.5	107
18	Emissions of nitrous oxide from arable organic and conventional cropping systems on two soil types. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 199-208.	5.3	103

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19	Need for multidisciplinary research towards a second green revolution. <i>Current Opinion in Plant Biology</i> , 2005, 8, 337-341.	7.1	97
20	Agricultural production and greenhouse gas emissions from world regions—The major trends over 40 years. <i>Global Environmental Change</i> , 2016, 37, 43-55.	7.8	96
21	Temperature, plant development and crop yields. <i>Trends in Plant Science</i> , 1996, 1, 119-124.	8.8	78
22	Chemical stress can increase crop yield. <i>Field Crops Research</i> , 2009, 114, 54-57.	5.1	77
23	Root carbon input in organic and inorganic fertilizer-based systems. <i>Plant and Soil</i> , 2012, 359, 321-333.	3.7	77
24	Effect of soil warming and rainfall patterns on soil N cycling in Northern Europe. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 195-205.	5.3	70
25	Climate variability and crop yields in Europe. <i>Nature</i> , 1999, 400, 724-724.	27.8	64
26	Invited review: Intergovernmental Panel on Climate Change, agriculture, and food—A case of shifting cultivation and history. <i>Global Change Biology</i> , 2019, 25, 2518-2529.	9.5	59
27	A genotype, environment and management (GxExM) analysis of adaptation in winter wheat to climate change in Denmark. <i>Agricultural and Forest Meteorology</i> , 2014, 187, 1-13.	4.8	53
28	Scaling-up the AFRCWHEAT2 model to assess phenological development for wheat in Europe. <i>Agricultural and Forest Meteorology</i> , 2000, 101, 167-186.	4.8	49
29	Spring Wheat Leaf Appearance and Temperature: Extending the Paradigm?. <i>Annals of Botany</i> , 2003, 91, 697-705.	2.9	48
30	Simulating soil N ₂ O emissions and heterotrophic CO ₂ respiration in arable systems using FASSET and MoBiLE-DNDC. <i>Plant and Soil</i> , 2011, 343, 139-160.	3.7	46
31	Energetic, economic and ecological balances of a combined food and energy system. <i>Biomass and Bioenergy</i> , 1998, 15, 407-416.	5.7	44
32	Patent confusion in law on new plant varieties. <i>Nature</i> , 2000, 404, 13-13.	27.8	43
33	Considering agriculture in IPCC assessments. <i>Nature Climate Change</i> , 2017, 7, 680-683.	18.8	43
34	Ozone effects on wheat in relation to CO ₂ : modelling short-term and long-term responses of leaf photosynthesis and leaf duration. <i>Global Change Biology</i> , 2000, 6, 735-750.	9.5	39
35	A European science plan to sustainably increase food security under climate change. <i>Global Change Biology</i> , 2012, 18, 3269-3271.	9.5	35
36	Crop Models, CO ₂ , and Climate Change. <i>Science</i> , 2007, 315, 459c-460c.	12.6	34

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37	Making science more effective for agriculture. <i>Advances in Agronomy</i> , 2020, , 153-177.	5.2	34
38	Title is missing!. <i>Plant and Soil</i> , 2002, 245, 307-314.	3.7	28
39	Effects of windbreak strips of willow coppiceâ€™ modelling and field experiment on barley in Denmark. <i>Agriculture, Ecosystems and Environment</i> , 2002, 93, 25-32.	5.3	23
40	Identity-based estimation of greenhouse gas emissions from crop production: Case study from Denmark. <i>European Journal of Agronomy</i> , 2012, 41, 66-72.	4.1	17
41	Non-Linearity in Climate Change Impact Assessments. <i>Journal of Biogeography</i> , 1995, 22, 597.	3.0	16
42	Food Security: Focus on Agriculture. <i>Science</i> , 2010, 328, 172-173.	12.6	16
43	Food, hunger, health, and climate change. <i>Lancet, The</i> , 2016, 387, 1886-1887.	13.7	16
44	Plant science and the food security agenda. <i>Nature Plants</i> , 2015, 1, 15173.	9.3	13
45	Leaf demography in willow short-rotation coppice. <i>Biomass and Bioenergy</i> , 1993, 5, 325-336.	5.7	12
46	Sensitivity of crop yield and N losses in winter wheat to changes in mean and variability of temperature and precipitation in Denmark using the FASSET model. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2012, 62, 335-351.	0.6	12
47	Choosing crops as energy feedstocks. <i>Nature Biotechnology</i> , 2007, 25, 716-717.	17.5	10
48	Can crop-climate models be accurate and precise? A case study for wheat production in Denmark. <i>Agricultural and Forest Meteorology</i> , 2015, 202, 51-60.	4.8	10
49	Organic movement reveals a shift in the social position of science. <i>Nature</i> , 2001, 412, 677-677.	27.8	9
50	Deconstructing crop processes and models via identities. <i>Plant, Cell and Environment</i> , 2013, 36, 1919-1925.	5.7	7
51	Relationship between C:N/C:O Stoichiometry and Ecosystem Services in Managed Production Systems. <i>PLoS ONE</i> , 2015, 10, e0123869.	2.5	5
52	The Rubisco enzyme and agricultural productivity. <i>Nature</i> , 2010, 463, 876-876.	27.8	4
53	Post-Cold-Storage Conditioning Time Affects Soil Denitrifying Enzyme Activity. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 2160-2167.	1.4	3
54	European Perspectives: An Agronomic Science Plan for Food Security in a Changing Climate. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2012, , 73-84.	0.4	3

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55	Biofuels: Putting Current Practices in Perspective. Science, 2008, 320, 1421-1422.	12.6	2
56	How will growing cities eat?. Nature, 2011, 469, 34-34.	27.8	2
57	From genes to networks to what-works. Nature Plants, 2018, 4, 234-234.	9.3	2
58	Wheat Production Systems and Global Climate Change. , 2007, , 195-209.		2
59	Science in an Age of (Non)Reason. , 2018, , 59-70.		0