

Christopher J Smith

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,097
citations

236612

25
h-index

128067

60
g-index

61
all docs

61
docs citations

61
times ranked

3922
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of APSIM, a model designed for farming systems simulation. <i>European Journal of Agronomy</i> , 2003, 18, 267-288.	1.9	2,073
2	Relationship of Marsh Elevation, Redox Potential, and Sulfide to <i>Spartina alterniflora</i> Productivity. <i>Soil Science Society of America Journal</i> , 1983, 47, 930-935.	1.2	141
3	Modelling the growth and water uptake function of plant root systems: a review. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 501.	1.5	112
4	Methane release from Gulf coast wetlands. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1983, 35B, 8-15.	0.8	94
5	Nitrous oxide emission from Gulf Coast wetlands. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1805-1814.	1.6	88
6	Nitrous oxide emission following Urea-N fertilization of Wetland rice. <i>Soil Science and Plant Nutrition</i> , 1982, 28, 161-171.	0.8	86
7	Evaluating Chemical and Physical Indices of Nitrogen Mineralization Capacity with an Unequivocal Reference. <i>Soil Science Society of America Journal</i> , 2001, 65, 368-376.	1.2	86
8	Modeling long-term soil carbon dynamics and sequestration potential in semi-arid agro-ecosystems. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1529-1544.	1.9	83
9	Carbon dioxide emission and carbon accumulation in coastal wetlands. <i>Estuarine, Coastal and Shelf Science</i> , 1983, 17, 21-29.	0.9	73
10	Use of modelling to explore the water balance of dryland farming systems in the Murray-Darling Basin, Australia. <i>European Journal of Agronomy</i> , 2002, 18, 159-169.	1.9	70
11	Fate of Riverine Nitrate Entering an Estuary: I. Denitrification and Nitrogen Burial. <i>Estuaries and Coasts</i> , 1985, 8, 15.	1.7	66
12	Nitrous oxide emission as affected by alternate anaerobic and aerobic conditions from soil suspensions enriched with ammonium sulfate. <i>Soil Biology and Biochemistry</i> , 1983, 15, 693-697.	4.2	65
13	Crop productivity and nutrient use efficiency as affected by long-term fertilisation in North China Plain. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 86, 105-119.	1.1	61
14	Release of Nutrients and Metals Following Oxidation of Freshwater and Saline Sediment. <i>Journal of Environmental Quality</i> , 1985, 14, 164-168.	1.0	55
15	Estimations of vapour pressure deficit and crop water demand in APSIM and their implications for prediction of crop yield, water use, and deep drainage. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 1227.	1.5	53
16	The residual value of fertiliser N in crop sequences: An appraisal of 60 years of research using ¹⁵ N tracer. <i>Field Crops Research</i> , 2018, 217, 66-74.	2.3	50
17	The effect of sediment redox potential on nitrogen uptake, anaerobic root respiration and growth of <i>Spartina alterniflora</i> Loisel. <i>Aquatic Botany</i> , 1984, 18, 223-230.	0.8	47
18	Effect of oil on salt marsh biota: Methods for restoration. <i>Environmental Pollution Series A, Ecological and Biological</i> , 1984, 36, 207-227.	0.8	46

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19	Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 262-272.	2.5	46
20	Fresh carbon input differentially impacts soil carbon decomposition across natural and managed systems. <i>Ecology</i> , 2015, 96, 2806-2813.	1.5	43
21	Rejuvenated marsh and bay-bottom accretion on the rapidly subsiding coastal plain of U.S. Gulf coast: a second-order effect of the emerging Atchafalaya delta. <i>Estuarine, Coastal and Shelf Science</i> , 1987, 25, 381-389.	0.9	41
22	Accounting for potassium and magnesium in irrigation water quality assessment. <i>California Agriculture</i> , 2016, 70, 71-76.	0.5	40
23	Comparisons of field measurements of carbon dioxide and nitrous oxide fluxes with model simulations for a legume pasture in southeast Australia. <i>Journal of Geophysical Research</i> , 1997, 102, 28013-28024.	3.3	29
24	The Effect of Soil Redox Potential and pH on the Reduction and Production of Nitrous Oxide. <i>Journal of Environmental Quality</i> , 1983, 12, 186-188.	1.0	28
25	Value of historical climate knowledge, SOI-based seasonal climate forecasting and stored soil moisture at sowing in crop nitrogen management in south eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1743-1753.	1.9	28
26	Modelling nitrous oxide and carbon dioxide emission from soil in an incubation experiment. <i>Geoderma</i> , 2011, 167-168, 328-339.	2.3	28
27	Nitrate Reduction in <i>Spartina Alterniflora</i> Marsh Soil. <i>Soil Science Society of America Journal</i> , 1982, 46, 748-750.	1.2	25
28	A method for determining stress in wetland plant communities following an oil spill. <i>Environmental Pollution Series A, Ecological and Biological</i> , 1981, 26, 297-304.	0.8	24
29	Nitrogen Loss from Freshwater and Saline Estuarine Sediments. <i>Journal of Environmental Quality</i> , 1983, 12, 514-518.	1.0	24
30	Nitrogen losses from a Louisiana Gulf Coast salt marsh. <i>Estuarine, Coastal and Shelf Science</i> , 1983, 17, 133-141.	0.9	23
31	Effect of rice plants on nitrification-denitrification loss of nitrogen under greenhouse conditions. <i>Plant and Soil</i> , 1984, 79, 287-290.	1.8	23
32	Marsh aggradation and sediment distribution along rapidly submerging Louisiana gulf coast. <i>Environmental Geology and Water Sciences</i> , 1992, 20, 57-64.	0.4	22
33	Nitrous oxide emission from simulated overland flow wastewater treatment systems. <i>Soil Biology and Biochemistry</i> , 1981, 13, 275-278.	4.2	21
34	Using fertiliser to maintain soil inorganic nitrogen can increase dryland wheat yield with little environmental cost. <i>Agriculture, Ecosystems and Environment</i> , 2019, 286, 106644.	2.5	21
35	Inverse optimization of hydraulic, solute transport, and cation exchange parameters using HP1 and UCODE to simulate cation exchange. <i>Journal of Contaminant Hydrology</i> , 2012, 142-143, 109-125.	1.6	20
36	Effects of organic and inorganic calcium compounds on soil-solution pH and aluminium concentration. <i>European Journal of Soil Science</i> , 1995, 46, 53-63.	1.8	19

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37	Measurements and APSIM modelling of soil C and N dynamics. <i>Soil Research</i> , 2020, 58, 41.	0.6	19
38	Methane production in Mississippi River deltaic plain peat. <i>Organic Geochemistry</i> , 1986, 9, 193-197.	0.9	18
39	The role of 15N in tracing N dynamics in agro-ecosystems under alternative systems of tillage management: A review. <i>Soil and Tillage Research</i> , 2020, 197, 104496.	2.6	18
40	Sedimentation patterns in a gulf coast backbarrier marsh: Response to increasing submergence. <i>Earth Surface Processes and Landforms</i> , 1986, 11, 485-490.	1.2	17
41	Simultaneous Determination of Nitrification and Nitrate Reduction in Sediment-Water Columns by Nitrate-15 Dilution. <i>Journal of Environmental Quality</i> , 1987, 16, 227-230.	1.0	16
42	Opportunities for enhancing yield and soil carbon sequestration while reducing N ₂ O emissions in rainfed cropping systems. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 400-410.	1.9	16
43	Reduction and Oxidation of Acid Sulfate Soils of Thailand. <i>Soil Science Society of America Journal</i> , 1987, 51, 630-634.	1.2	15
44	Heavy metal concentrations along the Louisiana coastal zone. <i>Environment International</i> , 1988, 14, 403-406.	4.8	15
45	Making sense of cosmic-ray soil moisture measurements and eddy covariance data with regard to crop water use and field water balance. <i>Agricultural Water Management</i> , 2018, 204, 271-280.	2.4	14
46	A Continental Scale Assessment of Australia's Potential for Irrigation. <i>Water Resources Management</i> , 2010, 24, 1791-1817.	1.9	12
47	Influence of the rhizosphere of <i>Spartina alterniflora</i> Loisel. On nitrogen loss from a Louisiana Gulf Coast salt marsh. <i>Environmental and Experimental Botany</i> , 1984, 24, 91-93.	2.0	11
48	15N methodologies for estimating the transfer of N from legumes to non-legumes in crop sequences. <i>Nutrient Cycling in Agroecosystems</i> , 2017, 107, 279-301.	1.1	11
49	A modelling investigation into the economic and environmental values of "perfect" climate forecasts for wheat production under contrasting rainfall conditions. <i>International Journal of Climatology</i> , 2008, 28, 255-266.	1.5	9
50	Recovery of added 15N-labelled ammonium-N from Louisiana Gulf Coast estuarine sediment. <i>Estuarine, Coastal and Shelf Science</i> , 1985, 21, 225-233.	0.9	8
51	On the use of solute water fronts to measure nitrate adsorption in a Red Ferrosol. <i>European Journal of Soil Science</i> , 2012, 63, 200-210.	1.8	8
52	Grain legumes in crop rotations under low and variable rainfall: are observed short-term N benefits sustainable?. <i>Plant and Soil</i> , 2020, 453, 271-279.	1.8	7
53	Effect of sediment moisture on carbon dioxide exchange in <i>Spartina alterniflora</i> . <i>Plant and Soil</i> , 1984, 79, 291-293.	1.8	6
54	The use of Ca-modified, brown-coal-derived humates and fulvates for treatment of soil acidity. <i>Soil Research</i> , 2002, 40, 1171.	0.6	6

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