

Wilfred Post

List of Publications by Year in descending order

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69
papers

13,253
citations

36299

51
h-index

95259

68
g-index

69
all docs

69
docs citations

69
times ranked

12731
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil carbon sequestration and land-use change: processes and potential. <i>Global Change Biology</i> , 2000, 6, 317-327.	9.5	2,044
2	Soil carbon pools and world life zones. <i>Nature</i> , 1982, 298, 156-159.	27.8	1,879
3	A global analysis of soil microbial biomass carbon, nitrogen and phosphorus in terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2013, 22, 737-749.	5.8	762
4	Influence of climate, soil moisture, and succession on forest carbon and nitrogen cycles. <i>Biogeochemistry</i> , 1986, 2, 3-27.	3.5	618
5	Causes of variation in soil carbon simulations from CMIP5 Earth system models and comparison with observations. <i>Biogeosciences</i> , 2013, 10, 1717-1736.	3.3	593
6	Response of northern forests to CO ₂ -induced climate change. <i>Nature</i> , 1988, 334, 55-58.	27.8	583
7	The 2007 Eastern US Spring Freeze: Increased Cold Damage in a Warming World?. <i>BioScience</i> , 2008, 58, 253-262.	4.9	506
8	Global patterns of soil nitrogen storage. <i>Nature</i> , 1985, 317, 613-616.	27.8	416
9	CLIMATE: The Terrestrial Carbon Cycle: Implications for the Kyoto Protocol. <i>Science</i> , 1998, 280, 1393-1394.	12.6	378
10	Phosphorus transformations as a function of pedogenesis: A synthesis of soil phosphorus data using Hedley fractionation method. <i>Biogeosciences</i> , 2011, 8, 2907-2916.	3.3	256
11	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 775-792.	4.9	241
12	Community assembly and food web stability. <i>Mathematical Biosciences</i> , 1983, 64, 169-192.	1.9	238
13	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project â€œ Part 1: Overview and experimental design. <i>Geoscientific Model Development</i> , 2013, 6, 2121-2133.	3.6	212
14	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012, 232, 144-157.	2.5	207
15	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project â€œ Part 2: Environmental driver data. <i>Geoscientific Model Development</i> , 2014, 7, 2875-2893.	3.6	207
16	The distribution of soil phosphorus for global biogeochemical modeling. <i>Biogeosciences</i> , 2013, 10, 2525-2537.	3.3	181
17	The role of phosphorus dynamics in tropical forests â€œ a modeling study using CLM-CNP. <i>Biogeosciences</i> , 2014, 11, 1667-1681.	3.3	179
18	CLIMATE CONTROLS ON FOREST SOIL C ISOTOPE RATIOS IN THE SOUTHERN APPALACHIAN MOUNTAINS. <i>Ecology</i> , 2000, 81, 1108-1119.	3.2	150

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19	Enhancement of Carbon Sequestration in US Soils. <i>BioScience</i> , 2004, 54, 895.	4.9	138
20	ATMOSPHERE: Plant Respiration in a Warmer World. <i>Science</i> , 2006, 312, 536-537.	12.6	137
21	The use of models to integrate information and understanding of soil C at the regional scale. <i>Geoderma</i> , 1997, 79, 227-260.	5.1	136
22	Temperature-independent diel variation in soil respiration observed from a temperate deciduous forest. <i>Global Change Biology</i> , 2006, 12, 2136-2145.	9.5	134
23	Nitrogen attenuation of terrestrial carbon cycle response to global environmental factors. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	130
24	Multiple nutrient limitations in ecological models. <i>Ecological Modelling</i> , 1989, 46, 147-163.	2.5	129
25	The Potential Response of Terrestrial Carbon Storage to Changes in Climate and Atmospheric CO ₂ . <i>Climatic Change</i> , 1997, 35, 199-227.	3.6	127
26	Reconciling estimates of the contemporary North American carbon balance among terrestrial biosphere models, atmospheric inversions, and a new approach for estimating net ecosystem exchange from inventory-based data. <i>Global Change Biology</i> , 2012, 18, 1282-1299.	9.5	116
27	Microbial dormancy improves development and experimental validation of ecosystem model. <i>ISME Journal</i> , 2015, 9, 226-237.	9.8	113
28	Carbon cycling in soil. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 522-528.	4.0	111
29	Successional changes in nitrogen availability as a potential factor contributing to spruce declines in boreal North America. <i>Canadian Journal of Forest Research</i> , 1987, 17, 1394-1400.	1.7	108
30	Linkages ? an individual-based forest ecosystem model. <i>Climatic Change</i> , 1996, 34, 253.	3.6	99
31	Integration of nitrogen cycle dynamics into the Integrated Science Assessment Model for the study of terrestrial ecosystem responses to global change. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	90
32	Carbon Management Response Curves: Estimates of Temporal Soil Carbon Dynamics. <i>Environmental Management</i> , 2004, 33, 507-18.	2.7	85
33	Remote Sensing Evaluation of CLM4 GPP for the Period 2000-2009*. <i>Journal of Climate</i> , 2012, 25, 5327-5342.	3.2	85
34	Bioenergy crop models: descriptions, data requirements, and future challenges. <i>GCB Bioenergy</i> , 2012, 4, 620-633.	5.6	79
35	Parameter estimation for models of ligninolytic and cellulolytic enzyme kinetics. <i>Soil Biology and Biochemistry</i> , 2012, 48, 28-38.	8.8	77
36	Hierarchical marginal land assessment for land use planning. <i>Land Use Policy</i> , 2013, 30, 106-113.	5.6	76

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37	Long-term modeling of soil C erosion and sequestration at the small watershed scale. <i>Climatic Change</i> , 2007, 80, 73-90.	3.6	75
38	Evaluation of continental carbon cycle simulations with North American flux tower observations. <i>Ecological Monographs</i> , 2013, 83, 531-556.	5.4	75
39	Intra-annual changes in biomass, carbon, and nitrogen dynamics at 4-year old switchgrass field trials in west Tennessee, USA. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 177-184.	5.3	72
40	Historical variations in terrestrial biospheric carbon storage. <i>Global Biogeochemical Cycles</i> , 1997, 11, 99-109.	4.9	70
41	Dynamics and comparative statics of mutualistic communities. <i>Journal of Theoretical Biology</i> , 1979, 78, 553-571.	1.7	69
42	RAPID CHANGES IN SOIL CARBON AND STRUCTURAL PROPERTIES DUE TO STOVER REMOVAL FROM NO-TILL CORN PLOTS. <i>Soil Science</i> , 2006, 171, 468-482.	0.9	69
43	Changes in Long-Term No-Till Corn Growth and Yield under Different Rates of Stover Mulch. <i>Agronomy Journal</i> , 2006, 98, 1128-1136.	1.8	68
44	AggModel: A soil organic matter model with measurable pools for use in incubation studies. <i>Ecological Modelling</i> , 2013, 263, 1-9.	2.5	68
45	Strength Properties and Organic Carbon of Soils in the North Appalachian Region. <i>Soil Science Society of America Journal</i> , 2005, 69, 663-673.	2.2	65
46	Organic Carbon Influences on Soil Particle Density and Rheological Properties. <i>Soil Science Society of America Journal</i> , 2006, 70, 1407-1414.	2.2	63
47	Endemic disease in environments with spatially heterogeneous host populations. <i>Mathematical Biosciences</i> , 1983, 63, 289-302.	1.9	61
48	A theoretical reassessment of microbial maintenance and implications for microbial ecology modeling. <i>FEMS Microbiology Ecology</i> , 2012, 81, 610-617.	2.7	60
49	Corn Stover Impacts on Near-Surface Soil Properties of No-Till Corn in Ohio. <i>Soil Science Society of America Journal</i> , 2006, 70, 266-278.	2.2	57
50	North American carbon dioxide sources and sinks: magnitude, attribution, and uncertainty. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 512-519.	4.0	56
51	Persistence and stability of seed-dispersed species in a patchy environment. <i>Theoretical Population Biology</i> , 1979, 16, 107-125.	1.1	55
52	The Unified North American Soil Map and its implication on the soil organic carbon stock in North America. <i>Biogeosciences</i> , 2013, 10, 2915-2930.	3.3	55
53	A model of herbivore feedback on plant productivity. <i>Mathematical Biosciences</i> , 1986, 79, 171-184.	1.9	54
54	Title is missing!. <i>Biogeochemistry</i> , 1999, 45, 115-145.	3.5	53

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55	The Influence of Naticid Predation on Evolutionary Strategies of Bivalve Prey: Conclusions from a Model. <i>American Naturalist</i> , 1985, 126, 817-842.	2.1	51
56	Mechanical Properties and Organic Carbon of Soil Aggregates in the Northern Appalachians. <i>Soil Science Society of America Journal</i> , 2005, 69, 1472-1481.	2.2	48
57	Ecological modelling and disturbance evaluation. <i>Ecological Modelling</i> , 1985, 29, 399-419.	2.5	42
58	Response of "Alamo" switchgrass tissue chemistry and biomass to nitrogen fertilization in West Tennessee, USA. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 289-297.	5.3	42
59	Soil carbon turnover in a recovering temperate forest. <i>Global Biogeochemical Cycles</i> , 1995, 9, 449-454.	4.9	40
60	Management opportunities for enhancing terrestrial carbon dioxide sinks. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 554-561.	4.0	38
61	Projecting future concentrations of atmospheric CO2 with global carbon cycle models: The importance of simulating historical changes. <i>Environmental Management</i> , 1992, 16, 91-108.	2.7	36
62	Aspects of the interaction between vegetation and soil under global change. <i>Water, Air, and Soil Pollution</i> , 1992, 64, 345-363.	2.4	35
63	Soil Carbon Change and Net Energy Associated with Biofuel Production on Marginal Lands: A Regional Modeling Perspective. <i>Journal of Environmental Quality</i> , 2013, 42, 1802-1814.	2.0	35
64	Studies on enhancing carbon sequestration in soils. <i>Energy</i> , 2004, 29, 1643-1650.	8.8	34
65	Modeling soil respiration and variations in source components using a multi-factor global climate change experiment. <i>Climatic Change</i> , 2011, 107, 459-480.	3.6	33
66	BIOCHEMICALLY PROTECTED SOIL ORGANIC CARBON AT THE NORTH APPALACHIAN EXPERIMENTAL WATERSHED. <i>Soil Science</i> , 2004, 169, 423-433.	0.9	30
67	Evaluation of CLM4 Solar Radiation Partitioning Scheme Using Remote Sensing and Site Level FPAR Datasets. <i>Remote Sensing</i> , 2013, 5, 2857-2882.	4.0	14
68	Climate Change Modeling: Computational Opportunities and Challenges. <i>Computing in Science and Engineering</i> , 2011, 13, 36-42.	1.2	10
69	Resolution of Respect: Jerry S. Olson (1928"2021). <i>Bulletin of the Ecological Society of America</i> , 2021, 102, e01879.	0.2	0