JÃ¸rgen E Olesen

List of Publications by Year
in descending order

331 papers	25,358 citations	8749 75 h-index	9579 142 g-index
353 all docs	353 docs citations	353 times ranked	21071 citing authors

#	Article	IF	Citations
1	Rising temperatures reduce global wheatÂproduction. Nature Climate Change, 2015, 5, 143-147.	8.1	1,544
2	Consequences of climate change for European agricultural productivity, land use and policy. European Journal of Agronomy, 2002, 16, 239-262.	1.9	1,106
3	Uncertainty in simulating wheat yields under climate change. Nature Climate Change, 2013, 3, 827-832.	8.1	1,021
4	Impacts and adaptation of European crop production systems to climate change. European Journal of Agronomy, 2011, 34, 96-112.	1.9	902
5	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
6	Climate Change Effects on Runoff, Catchment Phosphorus Loading and Lake Ecological State, and Potential Adaptations. Journal of Environmental Quality, 2009, 38, 1930-1941.	1.0	502
7	Adverse weather conditions for European wheat production will become more frequent with climate change. Nature Climate Change, 2014, 4, 637-643.	8.1	452
8	Simulation of winter wheat yield and its variability in different climates of Europe: A comparison of eight crop growth models. European Journal of Agronomy, 2011, 35, 103-114.	1.9	408
9	Multimodel ensembles of wheat growth: many models are better than one. Global Change Biology, 2015, 21, 911-925.	4.2	387
10	Adaptation to Climate Change in Developing Countries. Environmental Management, 2009, 43, 743-752.	1.2	377
11	Similar estimates of temperature impacts on global wheat yield by three independent methods. Nature Climate Change, 2016, 6, 1130-1136.	8.1	352
12	Agroclimatic conditions in Europe under climate change. Global Change Biology, 2011, 17, 2298-2318.	4.2	315
13	Climate change impact and adaptation for wheat protein. Global Change Biology, 2019, 25, 155-173.	4.2	312
14	How to measure, report and verify soil carbon change to realize the potential of soil carbon sequestration for atmospheric greenhouse gas removal. Global Change Biology, 2020, 26, 219-241.	4.2	308
15	Uncertainties in projected impacts of climate change on European agriculture and terrestrial ecosystems based on scenarios from regional climate models. Climatic Change, 2007, 81, 123-143.	1.7	304
16	Cropâ€"climate models need an overhaul. Nature Climate Change, 2011, 1, 175-177.	8.1	295
17	Simulation of spring barley yield in different climatic zones of Northern and Central Europe: A comparison of nine crop models. Field Crops Research, 2012, 133, 23-36.	2.3	269
18	Joint control of terrestrial gross primary productivity by plant phenology and physiology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2788-2793.	3.3	265

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19	Effects of temperature, wind speed and air humidity on ammonia volatilization from surface applied cattle slurry. Journal of Agricultural Science, 1991, 117, 91-100.	0.6	256
20	Climate change effects on nitrogen loading from cultivated catchments in Europe: implications for nitrogen retention, ecological state of lakes and adaptation. Hydrobiologia, 2011, 663, 1-21.	1.0	242
21	Synergies between the mitigation of, and adaptation to, climate change in agriculture. Journal of Agricultural Science, 2010, 148, 543-552.	0.6	235
22	The responses of agriculture in Europe to climate change. Regional Environmental Change, 2011, 11, 151-158.	1.4	233
23	Crop modelling for integrated assessment of risk to food production from climate change. Environmental Modelling and Software, 2015, 72, 287-303.	1.9	230
24	Diverging importance of drought stress for maize and winter wheat in Europe. Nature Communications, 2018, 9, 4249.	5.8	230
25	Challenges in quantifying biosphereâ€“atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139.	3.7	203
26	Policies for agricultural nitrogen managementâ€"trends, challenges and prospects for improved efficiency in Denmark. Environmental Research Letters, 2014, 9, 115002.	2.2	184
27	Processes controlling ammonia emission from livestock slurry in the field. European Journal of Agronomy, 2003, 19, 465-486.	1.9	181
28	Soil tillage enhanced CO2 and N2O emissions from loamy sand soil under spring barley. Soil and Tillage Research, 2007, 97, 5-18.	2.6	176
29	Modelling greenhouse gas emissions from European conventional and organic dairy farms. Agriculture, Ecosystems and Environment, 2006, 112, 207-220.	2.5	175
30	The uncertainty of crop yield projections is reduced by improved temperature response functions. Nature Plants, 2017, 3, 17102.	4.7	170
31	Effects of Dry Matter Content and Temperature on Ammonia Loss from Surfaceâ€Applied Cattle Slurry. Journal of Environmental Quality, 1991, 20, 679-683.	1.0	157
32	Combined effects of climate models, hydrological model structures and land use scenarios on hydrological impacts of climate change. Journal of Hydrology, 2016, 535, 301-317.	2.3	156
33	Evidence for denitrification as main source of N 2 O emission from residue-amended soil. Soil Biology and Biochemistry, 2016, 92, 153-160.	4.2	155
34	Mitigation of greenhouse gas emissions in European conventional and organic dairy farming. Agriculture, Ecosystems and Environment, 2006, 112, 221-232.	2.5	149
35	Landscape-scale modeling of carbon cycling under the impact of soil redistribution: The role of tillage erosion. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	144
36	Decline in climate resilience of European wheat. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 123-128.	3.3	144

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37	Soil carbon loss with warming: New evidence from carbonâ€degrading enzymes. Global Change Biology, 2020, 26, 1944-1952.	4.2	141
38	Nitrogen leaching: A crop rotation perspective on the effect of N surplus, field management and use of catch crops. Agriculture, Ecosystems and Environment, 2018, 255, 1-11.	2.5	138
39	Watershed land use effects on lake water quality in Denmark. Ecological Applications, 2012, 22, 1187-1200.	1.8	136
40	Changes in time of sowing, flowering and maturity of cereals in Europe under climate change. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1527-1542.	1.1	135
41	Cereal yield gaps across Europe. European Journal of Agronomy, 2018, 101, 109-120.	1.9	135
42	Evaluating nitrogen taxation scenarios using the dynamic whole farm simulation model FASSET. Agricultural Systems, 2003, 76, 817-839.	3.2	131
43	Digging Deeper for Agricultural Resources, the Value of Deep Rooting. Trends in Plant Science, 2020, 25, 406-417.	4.3	127
44	Crop rotation modellingâ€"A European model intercomparison. European Journal of Agronomy, 2015, 70, 98-111.	1.9	125
45	Winter wheat yield response to climate variability in Denmark. Journal of Agricultural Science, 2011, 149, 33-47.	0.6	124
46	Coincidence of variation in yield and climate in Europe. Agriculture, Ecosystems and Environment, 2010, 139, 483-489.	2.5	123
47	Carbon footprints of crops from organic and conventional arable crop rotations â€" using a life cycle assessment approach. Journal of Cleaner Production, 2014, 64, 609-618.	4.6	123
48	Longâ€term nitrogen loading alleviates phosphorus limitation in terrestrial ecosystems. Global Change Biology, 2020, 26, 5077-5086.	4.2	123
49	Nitrate leaching from organic arable crop rotations is mostly determined by autumn field management. Agriculture, Ecosystems and Environment, 2011, 142, 149-160.	2.5	120
50	Soil properties, crop production and greenhouse gas emissions from organic and inorganic fertilizer-based arable cropping systems. Agriculture, Ecosystems and Environment, 2010, 139, 584-594.	2.5	116
51	Livestock and greenhouse gas emissions: The importance of getting the numbers right. Animal Feed Science and Technology, 2011, 166-167, 779-782.	1.1	116
52	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	4.2	113
53	Analysis and classification of data sets for calibration and validation of agro-ecosystem models. Environmental Modelling and Software, 2015, 72, 402-417.	1.9	112
54	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. Field Crops Research, 2017, 202, 5-20.	2.3	109

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55	Nitrous oxide emissions from European agriculture â€“ an analysis of variability and drivers of emissions from field experiments. Biogeosciences, 2013, 10, 2671-2682.	1.3	108
56	Nitrogen leaching from conventional versus organic farming systems â€” a systems modelling approach. European Journal of Agronomy, 2000, 13, 65-82.	1.9	107
57	Multielemental Fingerprinting as a Tool for Authentication of Organic Wheat, Barley, Faba Bean, and Potato. Journal of Agricultural and Food Chemistry, 2011, 59, 4385-4396.	2.4	106
58	A framework for testing the ability of models to project climate change and its impacts. Climatic Change, 2014, 122, 271-282.	1.7	104
59	Effect of temperature and precipitation on nitrate leaching from organic cereal cropping systems in Denmark. European Journal of Agronomy, 2015, 62, 55-64.	1.9	104
60	Mitigation efforts will not fully alleviate the increase in water scarcity occurrence probability in wheat-producing areas. Science Advances, 2019, 5, eaau2406.	4.7	104
61	Emissions of nitrous oxide from arable organic and conventional cropping systems on two soil types. Agriculture, Ecosystems and Environment, 2010, 136, 199-208.	2.5	103
62	Sensitivity of European wheat to extreme weather. Field Crops Research, 2018, 222, 209-217.	2.3	101
63	Modelling effects of wind speed and surface cover on ammonia volatilization from stored pig slurry. Atmospheric Environment Part A General Topics, 1993, 27, 2567-2574.	1.3	99
64	Modelling CO2 effects on wheat with varying nitrogen supplies. Agriculture, Ecosystems and Environment, 2000, 82, 27-37.	2.5	96
65	The role of uncertainty in climate change adaptation strategiesâ€"A Danish water management example. Mitigation and Adaptation Strategies for Global Change, 2013, 18, 337-359.	1.0	92
66	The role of catch crops in the ecological intensification of spring cereals in organic farming under Nordic climate. European Journal of Agronomy, 2013, 44, 98-108.	1.9	92
67	Similarity of differently sized macro-aggregates in arable soils of different texture. Geoderma, 2006, 137, 147-154.	2.3	91
68	Canopy temperature for simulation of heat stress in irrigated wheat in a semi-arid environment: A multi-model comparison. Field Crops Research, 2017, 202, 21-35.	2.3	91
69	Effects of reduced tillage on net greenhouse gas fluxes from loamy sand soil under winter crops in Denmark. Agriculture, Ecosystems and Environment, 2008, 128, 117-126.	2.5	90
70	A potato model intercomparison across varying climates and productivity levels. Global Change Biology, 2017, 23, 1258-1281.	4.2	90
71	The value of catch crops and organic manures for spring barley in organic arable farming. Field Crops Research, 2007, 100, 168-178.	2.3	89
72	Winter cereal yields as affected by animal manure and green manure in organic arable farming. European Journal of Agronomy, 2009, 30, 119-128.	1.9	87

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73	Comparison of methods for simulating effects of nitrogen on green area index and dry matter growth in winter wheat. Field Crops Research, 2002, 74, 131-149.	2.3	83
74	Sensitivities of crop models to extreme weather conditions during flowering period demonstrated for maize and winter wheat in Austria. Journal of Agricultural Science, 2013, 151, 813-835.	0.6	82
75	Effects of contrasting catch crops on nitrogen availability and nitrous oxide emissions in an organic cropping system. Agriculture, Ecosystems and Environment, 2015, 199, 382-393.	2.5	81
76	Carbon dynamics and retention in soil after anaerobic digestion of dairy cattle feed and faeces. Soil Biology and Biochemistry, 2013, 58, 82-87.	4.2	79
77	Simulation of Effects of Soils, Climate and Management on N2O Emission from Grasslands. Biogeochemistry, 2005, 76, 395-419.	1.7	78
78	Changes in carbon stocks of <scp>D</scp>anish agricultural mineral soils between 1986 and 2009. European Journal of Soil Science, 2014, 65, 730-740.	1.8	78
79	Nitrate leaching from organic arable crop rotations: effects of location, manure and catch crop. Soil Use and Management, 2005, 21, 181-188.	2.6	78
80	Root carbon input in organic and inorganic fertilizer-based systems. Plant and Soil, 2012, 359, 321-333.	1.8	77
81	C-TOOL: A simple model for simulating whole-profile carbon storage in temperate agricultural soils. Ecological Modelling, 2014, 292, 11-25.	1.2	77
82	Nitrous oxide emissions and nitrogen use efficiency of manure and digestates applied to spring barley. Agriculture, Ecosystems and Environment, 2017, 239, 188-198.	2.5	76
83	Effects of catch crop type and root depth on nitrogen leaching and yield of spring barley. Field Crops Research, 2012, 125, 129-138.	2.3	75
84	Is it really organic? â€“ Multi-isotopic analysis as a tool to discriminate between organic and conventional plants. Food Chemistry, 2013, 141, 2812-2820.	4.2	75
85	Do soil organic carbon levels affect potential yields and nitrogen use efficiency? An analysis of winter wheat and spring barley field trials. European Journal of Agronomy, 2015, 66, 62-73.	1.9	75
86	Performance of the SUBSTOR-potato model across contrasting growing conditions. Field Crops Research, 2017, 202, 57-76.	2.3	75
87	Cereal yield and quality as affected by nitrogen availability in organic and conventional arable crop rotations: A combined modeling and experimental approach. European Journal of Agronomy, 2011, 34, 83-95.	1.9	74
88	Review of scenario analyses to reduce agricultural nitrogen and phosphorus loading to the aquatic environment. Science of the Total Environment, 2016, 573, 608-626.	3.9	73
89	Sensitivity of field-scale winter wheat production in Denmark to climate variability and climate change. Climate Research, 2000, 15, 221-238.	0.4	72
90	Regionâ€specific assessment of greenhouse gas mitigation with different manure management strategies in four agroecological zones. Global Change Biology, 2009, 15, 2825-2837.	4.2	70

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91	Effect of soil warming and rainfall patterns on soil N cycling in Northern Europe. Agriculture, Ecosystems and Environment, 2010, 139, 195-205.	2.5	70
92	Developments in greenhouse gas emissions and net energy use in Danish agriculture â€“ How to achieve substantial CO2 reductions?. Environmental Pollution, 2011, 159, 3193-3203.	3.7	70
93	Comparing the performance of 11 crop simulation models in predicting yield response to nitrogen fertilization. Journal of Agricultural Science, 2016, 154, 1218-1240.	0.6	70
94	Above- and below-ground competition between intercropped winter wheat Triticum aestivum and white clover Trifolium repens. Journal of Applied Ecology, 2006, 43, 237-245.	1.9	68
95	Modelling the carbon and nitrogen balances of direct land use changes from energy crops in Denmark: a consequential life cycle inventory. GCB Bioenergy, 2012, 4, 889-907.	2.5	68
96	Dairy farm CH4 and N2O emissions, from one square metre to the full farm scale. Agriculture, Ecosystems and Environment, 2006, 112, 146-152.	2.5	67
97	Simulation of above-ground suppression of competing species and competition tolerance in winter wheat varieties. Field Crops Research, 2004, 89, 263-280.	2.3	66
98	Organic matter and soil tilth in arable farming: Management makes a difference within 5â€“6 years. Agriculture, Ecosystems and Environment, 2007, 122, 157-172.	2.5	66
99	Effects of grass-clover management and cover crops on nitrogen cycling and nitrous oxide emissions in a stockless organic crop rotation. Agriculture, Ecosystems and Environment, 2013, 181, 115-126.	2.5	66
100	The effect of tillage intensity on soil structure and winter wheat root/shoot growth. Soil Use and Management, 2008, 24, 392-400.	2.6	65
101	Effect of spatial sampling from European flux towers for estimating carbon and water fluxes with artificial neural networks. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1941-1957.	1.3	65
102	Irrigation strategy, nitrogen application and fungicide control in winter wheat on a sandy soil. I. Yield, yield components and nitrogen uptake. Journal of Agricultural Science, 2000, 134, 1-11.	0.6	64
103	Shifts in comparative advantages for maize, oat and wheat cropping under climate change in Europe. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1514-1526.	1.1	63
104	Modelling dry matter production and resource use in intercrops of pea and barley. Field Crops Research, 2004, 88, 69-83.	2.3	61
105	C and N mineralization of composted and anaerobically stored ruminant manure in differently textured soils. Journal of Agricultural Science, 2000, 135, 151-159.	0.6	60
106	Whole-farm models to quantify greenhouse gas emissions and their potential use for linking climate change mitigation and adaptation in temperate grassland ruminant-based farming systems. Animal, 2013, 7, 373-385.	1.3	60
107	Nitrogenâ€ƒmineralization potential of organomineral size separates from soils with annual straw incorporation. European Journal of Soil Science, 1998, 49, 25-36.	1.8	58
108	Management effects on European cropland respiration. Agriculture, Ecosystems and Environment, 2010, 139, 346-362.	2.5	58

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109	Effects of experimental warming and nitrogen addition on soil respiration and CH4 fluxes from crop rotations of winter wheatâ€"soybean/fallow. Agricultural and Forest Meteorology, 2015, 207, 38-47.	1.9	58
110	Growth and yield response of winter wheat to soil warming and rainfall patterns. Journal of Agricultural Science, 2010, 148, 553-566.	0.6	57
111	Could the changes in regional crop yields be a pointer of climatic change?. Agricultural and Forest Meteorology, 2012, 166-167, 62-71.	1.9	55
112	Effects of climate and nutrient load on the water quality of shallow lakes assessed through ensemble runs by PCLake. Ecological Applications, 2014, 24, 1926-1944.	1.8	55
113	Quantifying biological nitrogen fixation of different catch crops, and residual effects of roots and tops on nitrogen uptake in barley using in-situ 15N labelling. Plant and Soil, 2015, 395, 273-287.	1.8	55
114	Impacts and adaptation of the cropping systems to climate change in the Northeast Farming Region of China. European Journal of Agronomy, 2016, 78, 60-72.	1.9	55
115	Long-term fate of nitrogen uptake in catch crops. European Journal of Agronomy, 2006, 25, 383-390.	1.9	54
116	Looking at Biofuels and Bioenergy. Science, 2006, 312, 1743b-1744b.	6.0	54
117	Stimulation of ammonia oxidizer and denitrifier abundances by nitrogen loading: Poor predictability for increased soil N₂O emission. Global Change Biology, 2022, 28, 2158-2168.	4.2	54
118	Comparison of scales of climate and soil data for aggregating simulated yields of winter wheat in Denmark. Agriculture, Ecosystems and Environment, 2000, 82, 213-228.	2.5	53
119	Width of clover strips and wheat rows influence grain yield in winter wheat/white clover intercropping. Field Crops Research, 2006, 95, 280-290.	2.3	53
120	Warming and nitrogen fertilization effects on winter wheat yields in northern China varied between four years. Field Crops Research, 2013, 151, 56-64.	2.3	53
121	A genotype, environment and management (GxExM) analysis of adaptation in winter wheat to climate change in Denmark. Agricultural and Forest Meteorology, 2014, 187, 1-13.	1.9	53
122	Estimating crop yield using a satellite-based light use efficiency model. Ecological Indicators, 2016, 60, 702-709.	2.6	52
123	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. Agricultural Systems, 2018, 166, 26-35.	3.2	52
124	Yield benefits from replacing chemical fertilizers with manure under water deficient conditions of the winter wheat â€" summer maize system in the North China Plain. European Journal of Agronomy, 2020, 119, 126118.	1.9	52
125	Projecting the future ecological state of lakes in Denmark in a 6 degree warming scenario. Climate Research, 2015, 64, 55-72.	0.4	52
126	Crop residues as driver for N2O emissions from a sandy loam soil. Agricultural and Forest Meteorology, 2017, 233, 45-54.	1.9	51

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127	Effects of rate and timing of nitrogen fertilizer on disease control by fungicides in winter wheat. 1. Grain yield and foliar disease control. Journal of Agricultural Science, 2003, 140, 1-13.	0.6	50
128	Multi-wheat-model ensemble responses to interannual climate variability. Environmental Modelling and Software, 2016, 81, 86-101.	1.9	50
129	Reviews and syntheses: Review of causes and sources of N₂O emissions and NO₃ leaching from organic arable crop rotations. Biogeosciences, 2019, 16, 2795-2819.	1.3	50
130	C and N turnover in structurally intact soils of different texture. Soil Biology and Biochemistry, 2003, 35, 765-774.	4.2	49
131	Spatiotemporal variations of aridity in Iran using highâ€resolution gridded data. International Journal of Climatology, 2018, 38, 2701-2717.	1.5	49
132	Root biomass in cereals, catch crops and weeds can be reliably estimated without considering aboveground biomass. Agriculture, Ecosystems and Environment, 2018, 251, 141-148.	2.5	49
133	Effects of changes in land use and climate on aquatic ecosystems: Coupling of models and decomposition of uncertainties. Science of the Total Environment, 2019, 657, 627-633.	3.9	48
134	Carbon and nitrogen mineralization differ between incorporated shoots and roots of legume versus non-legume based cover crops. Plant and Soil, 2020, 446, 243-257.	1.8	48
135	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO2. Field Crops Research, 2016, 198, 80-92.	2.3	47
136	Climate change is expected to increase yield and water use efficiency of wheat in the North China Plain. Agricultural Water Management, 2019, 222, 193-203.	2.4	47
137	Simulating soil N2O emissions and heterotrophic CO2 respiration in arable systems using FASSET and MoBiLE-DNDC. Plant and Soil, 2011, 343, 139-160.	1.8	46
138	Farm nitrogen balances in six European landscapes as an indicator for nitrogen losses and basis for improved management. Biogeosciences, 2012, 9, 5303-5321.	1.3	46
139	Traits in Spring Wheat Cultivars Associated with Yield Loss Caused by a Heat Stress Episode after Anthesis. Journal of Agronomy and Crop Science, 2015, 201, 32-48.	1.7	46
140	Modelling soil organic carbon in Danish agricultural soils suggests low potential for future carbon sequestration. Agricultural Systems, 2016, 145, 83-89.	3.2	46
141	Nitrogen balances in organic and conventional arable crop rotations and their relations to nitrogen yield and nitrate leaching losses. Agriculture, Ecosystems and Environment, 2018, 265, 350-362.	2.5	46
142	Temperature thresholds of ecosystem respiration at a global scale. Nature Ecology and Evolution, 2021, 5, 487-494.	3.4	46
143	Nitrate Leaching, Yields and Carbon Sequestration after Noninversion Tillage, Catch Crops, and Straw Retention. Journal of Environmental Quality, 2015, 44, 868-881.	1.0	45
144	Adapting maize production to drought in the Northeast Farming Region of China. European Journal of Agronomy, 2016, 77, 47-58.	1.9	44

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145	Changing regional weather-crop yield relationships across Europe between 1901 and 2012. Climate Research, 2016, 70, 195-214.	0.4	44
146	A probabilistic assessment of climate change impacts on yield and nitrogen leaching from winter wheat in Denmark. Natural Hazards and Earth System Sciences, 2011, 11, 2541-2553.	1.5	43
147	Climate change increases deoxynivalenol contamination of wheat in north-western Europe. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1593-1604.	1.1	43
148	Performance of process-based models for simulation of grain N in crop rotations across Europe. Agricultural Systems, 2017, 154, 63-77.	3.2	43
149	Experimental warming-driven soil drying reduced N2O emissions from fertilized crop rotations of winter wheatâ€“soybean/fallow, 2009â€“2014. Agriculture, Ecosystems and Environment, 2016, 219, 71-82.	2.5	42
150	Shared socio-economic pathways extended for the Baltic Sea: exploring long-term environmental problems. Regional Environmental Change, 2019, 19, 1073-1086.	1.4	42
151	Nitrogen cycling in organic farming systems with rotational grass-clover and arable crops. Soil Use and Management, 2006, 22, 197-208.	2.6	41
152	Large uncertainty in soil carbon modelling related to method of calculation of plant carbon input in agricultural systems. European Journal of Soil Science, 2017, 68, 953-963.	1.8	41
153	Risk factors for European winter oilseed rape production under climate change. Agricultural and Forest Meteorology, 2019, 272-273, 30-39.	1.9	41
154	A Passive Flux Sampler for Measuring Ammonia Volatilization from Manure Storage Facilities. Journal of Environmental Quality, 1996, 25, 241-247.	1.0	40
155	Irrigation strategy, nitrogen application and fungicide control in winter wheat on a sandy soil. II. Radiation interception and conversion. Journal of Agricultural Science, 2000, 134, 13-23.	0.6	40
156	Nitrogen balances of innovative cropping systems for feedstock production to future biorefineries. Science of the Total Environment, 2018, 633, 372-390.	3.9	40
157	Acclimation to higher VPD and temperature minimized negative effects on assimilation and grain yield of wheat. Agricultural and Forest Meteorology, 2018, 248, 119-129.	1.9	40
158	Crop nitrogen demand and canopy area expansion in winter wheat during vegetative growth. European Journal of Agronomy, 2002, 16, 279-294.	1.9	39
159	Effect of climate change on greenhouse gas emissions from arable crop rotations. Nutrient Cycling in Agroecosystems, 2004, 70, 147-160.	1.1	39
160	Long-term effects of cropping system on N2O emission potential. Soil Biology and Biochemistry, 2013, 57, 706-712.	4.2	39
161	A flexible tool for simulation of soil carbon turnover. Ecological Modelling, 2002, 151, 1-14.	1.2	38
162	Mechanical control of clover improves nitrogen supply and growth of wheat in winter wheat/white clover intercropping. European Journal of Agronomy, 2006, 24, 149-155.	1.9	38

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163	<i>Apera spicaâ€venti</i> population dynamics and impact on crop yield as affected by tillage, crop rotation, location and herbicide programmes. Weed Research, 2008, 48, 48-57.	0.8	38
164	Effects of climatic factors, drought risk and irrigation requirement on maize yield in the Northeast Farming Region of China. Journal of Agricultural Science, 2016, 154, 1171-1189.	0.6	38
165	Consolidating soil carbon turnover models by improved estimates of belowground carbon input. Scientific Reports, 2016, 6, 32568.	1.6	38
166	Decreased rhizodeposition, but increased microbial carbon stabilization with soil depth down to 3.6Âm. Soil Biology and Biochemistry, 2020, 150, 108008.	4.2	38
167	Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. Ambio, 2019, 48, 1325-1336.	2.8	37
168	Input and mineralization of carbon and nitrogen in soil from legume-based cover crops. Nutrient Cycling in Agroecosystems, 2020, 116, 1-18.	1.1	37
169	Predicting nitrous oxide emissions from manure properties and soil moisture: An incubation experiment. Soil Biology and Biochemistry, 2016, 97, 112-120.	4.2	36
170	Biological nitrogen fixation in three long-term organic and conventional arable crop rotation experiments in Denmark. European Journal of Agronomy, 2017, 90, 87-95.	1.9	36
171	Physical robustness of canopy temperature models for crop heat stress simulation across environments and production conditions. Field Crops Research, 2018, 216, 75-88.	2.3	36
172	Effects of rates and timing of nitrogen fertilizer on disease control by fungicides in winter wheat. 2. Crop growth and disease development. Journal of Agricultural Science, 2003, 140, 15-29.	0.6	35
173	Effects of farm heterogeneity and methods for upscaling on modelled nitrogen losses in agricultural landscapes. Environmental Pollution, 2011, 159, 3183-3192.	3.7	35
174	Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. European Journal of Agronomy, 2017, 84, 152-165.	1.9	35
175	Comparison of regression techniques to predict response of oilseed rape yield to variation in climatic conditions in Denmark. European Journal of Agronomy, 2017, 82, 11-20.	1.9	35
176	Priority questions in multidisciplinary drought research. Climate Research, 2018, 75, 241-260.	0.4	35
177	Design of an Organic Farming Crop-Rotation Experiment. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2000, 50, 13-21.	0.3	34
178	Spatial Variation of Temperature and Precipitation in Bhutan and Links to Vegetation and Land Cover. Mountain Research and Development, 2016, 36, 66.	0.4	34
179	Assessing ways to combat eutrophication in a Chinese drinking water reservoir using SWAT. Marine and Freshwater Research, 2013, 64, 475.	0.7	33
180	Productivity of organic and conventional arable cropping systems in long-term experiments in Denmark. European Journal of Agronomy, 2017, 90, 12-22.	1.9	33

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