Jrgen E Olesen

List of Publications by Citations

338 papers	18,296 citations	66 h-index	124 g-index
353 ext. papers	21,635 ext. citations	5.8 avg, IF	6.75 L-index

#	Paper	IF	Citations
338	Rising temperatures reduce global wheat production. *Nature Climate Change*, **2015**, 5, 143-147	21.4	1048
337	Consequences of climate change for European agricultural productivity, land use and policy. *European Journal of Agronomy*, **2002**, 16, 239-262	5	916
336	Uncertainty in simulating wheat yields under climate change. *Nature Climate Change*, **2013**, 3, 827-832	21.4	827
335	Impacts and adaptation of European crop production systems to climate change. *European Journal of Agronomy*, **2011**, 34, 96-112	5	708
334	Climate change effects on runoff, catchment phosphorus loading and lake ecological state, and potential adaptations. *Journal of Environmental Quality*, **2009**, 38, 1930-41	3.4	407
333	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	5	342
332	Adverse weather conditions for European wheat production will become more frequent with climate change. *Nature Climate Change*, **2014**, 4, 637-643	21.4	323
331	Multimodel ensembles of wheat growth: many models are better than one. *Global Change Biology*, **2015**, 21, 911-25	11.4	292
330	Adaptation to climate change in developing countries. *Environmental Management*, **2009**, 43, 743-52	3.1	276
329	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*, **2020**, 7, 225	8.2	256
328	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	4.5	254
327	Agroclimatic conditions in Europe under climate change. *Global Change Biology*, **2011**, 17, 2298-2318	11.4	250
326	Similar estimates of temperature impacts on global wheat yield by three independent methods. *Nature Climate Change*, **2016**, 6, 1130-1136	21.4	233
325	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	5.5	229
324	Effects of temperature, wind speed and air humidity on ammonia volatilization from surface applied cattle slurry. *Journal of Agricultural Science*, **1991**, 117, 91-100	1	213
323	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	2.4	192
322	Challenges in quantifying biosphere-atmosphere exchange of nitrogen species. *Environmental Pollution*, **2007**, 150, 125-39	9.3	186

321	Synergies between the mitigation of, and adaptation to, climate change in agriculture. *Journal of Agricultural Science*, **2010**, 148, 543-552	1	185
320	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, 2788-93	11.5	181
319	Climate change impact and adaptation for wheat protein. *Global Change Biology*, **2019**, 25, 155-173	11.4	177
318	The responses of agriculture in Europe to climate change. *Regional Environmental Change*, **2011**, 11, 151-158	4.3	175
317	Crop modelling for integrated assessment of risk to food production from climate change. *Environmental Modelling and Software*, **2015**, 72, 287-303	5.2	171
316	Processes controlling ammonia emission from livestock slurry in the field. *European Journal of Agronomy*, **2003**, 19, 465-486	5	158
315	Policies for agricultural nitrogen management□trends, challenges and prospects for improved efficiency in Denmark. *Environmental Research Letters*, **2014**, 9, 115002	6.2	151
314	Soil tillage enhanced CO2 and N2O emissions from loamy sand soil under spring barley. *Soil and Tillage Research*, **2007**, 97, 5-18	6.5	148
313	Modelling greenhouse gas emissions from European conventional and organic dairy farms. *Agriculture, Ecosystems and Environment*, **2006**, 112, 207-220	5.7	148
312	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	11.4	142
311	Effects of Dry Matter Content and Temperature on Ammonia Loss from Surface-Applied Cattle Slurry. *Journal of Environmental Quality*, **1991**, 20, 679-683	3.4	139
310	Diverging importance of drought stress for maize and winter wheat in Europe. *Nature Communications*, **2018**, 9, 4249	17.4	129
309	Mitigation of greenhouse gas emissions in European conventional and organic dairy farming. *Agriculture, Ecosystems and Environment*, **2006**, 112, 221-232	5.7	125
308	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	5.9	119
307	Evaluating nitrogen taxation scenarios using the dynamic whole farm simulation model FASSET. *Agricultural Systems*, **2003**, 76, 817-839	6.1	115
306	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	6	113
305	Coincidence of variation in yield and climate in Europe. *Agriculture, Ecosystems and Environment*, **2010**, 139, 483-489	5.7	109
304	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, 1527-42	3.2	108

303	Evidence for denitrification as main source of N 2 O emission from residue-amended soil. *Soil Biology and Biochemistry*, **2016**, 92, 153-160	7.5	107
302	Nitrate leaching from organic arable crop rotations is mostly determined by autumn field management. *Agriculture, Ecosystems and Environment*, **2011**, 142, 149-160	5.7	105
301	Carbon footprints of crops from organic and conventional arable crop rotations □using a life cycle assessment approach. *Journal of Cleaner Production*, **2014**, 64, 609-618	10.3	104
300	Winter wheat yield response to climate variability in Denmark. *Journal of Agricultural Science*, **2011**, 149, 33-47	1	98
299	Multielemental fingerprinting as a tool for authentication of organic wheat, barley, faba bean, and potato. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 4385-96	5.7	98
298	Nitrogen leaching from conventional versus organic farming systems □a systems modelling approach. *European Journal of Agronomy*, **2000**, 13, 65-82	5	97
297	The uncertainty of crop yield projections is reduced by improved temperature response functions. *Nature Plants*, **2017**, 3, 17102	11.5	95
296	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	5.7	95
295	Crop rotation modelling□A European model intercomparison. *European Journal of Agronomy*, **2015**, 70, 98-111	5	93
294	Watershed land use effects on lake water quality in Denmark **2012**, 22, 1187-200		93
293	Nitrous oxide emissions from European agriculture □an analysis of variability and drivers of emissions from field experiments. *Biogeosciences*, **2013**, 10, 2671-2682	4.6	90
292	Emissions of nitrous oxide from arable organic and conventional cropping systems on two soil types. *Agriculture, Ecosystems and Environment*, **2010**, 136, 199-208	5.7	88
291	A framework for testing the ability of models to project climate change and its impacts. *Climatic Change*, **2014**, 122, 271-282	4.5	86
290	Decline in climate resilience of European wheat. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 123-128	11.5	86
289	Modelling CO2 effects on wheat with varying nitrogen supplies. *Agriculture, Ecosystems and Environment*, **2000**, 82, 27-37	5.7	84
288	Analysis and classification of data sets for calibration and validation of agro-ecosystem models. *Environmental Modelling and Software*, **2015**, 72, 402-417	5.2	83
287	Cereal yield gaps across Europe. *European Journal of Agronomy*, **2018**, 101, 109-120	5	83
286	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	5.7	80

285	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		80
284	Livestock and greenhouse gas emissions: The importance of getting the numbers right. *Animal Feed Science and Technology*, **2011**, 166-167, 779-782	3	79
283	The role of uncertainty in climate change adaptation strategies—A Danish water management example. *Mitigation and Adaptation Strategies for Global Change*, **2013**, 18, 337-359	3.9	76
282	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	5	76
281	The value of catch crops and organic manures for spring barley in organic arable farming. *Field Crops Research*, **2007**, 100, 168-178	5.5	75
280	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	5.7	74
279	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	5.5	74
278	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. *Field Crops Research*, **2017**, 202, 5-20	5.5	70
277	Nitrate leaching from organic arable crop rotations: effects of location, manure and catch crop. *Soil Use and Management*, **2005**, 21, 181-188	3.1	70
276	Winter cereal yields as affected by animal manure and green manure in organic arable farming. *European Journal of Agronomy*, **2009**, 30, 119-128	5	69
275	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	5.5	68
274	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	1	68
273	Effect of temperature and precipitation on nitrate leaching from organic cereal cropping systems in Denmark. *European Journal of Agronomy*, **2015**, 62, 55-64	5	66
272	Sensitivity of European wheat to extreme weather. *Field Crops Research*, **2018**, 222, 209-217	5.5	66
271	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	5	65
270	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	5.6	64
269	A potato model intercomparison across varying climates and productivity levels. *Global Change Biology*, **2017**, 23, 1258-1281	11.4	64
268	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	5.7	63

267	Simulation of Effects of Soils, Climate and Management on N2O Emission from Grasslands. *Biogeochemistry*, **2005**, 76, 395-419	3.8	63
266	Effects of catch crop type and root depth on nitrogen leaching and yield of spring barley. *Field Crops Research*, **2012**, 125, 129-138	5.5	62
265	Developments in greenhouse gas emissions and net energy use in Danish agriculture - how to achieve substantial CO(2) reductions?. *Environmental Pollution*, **2011**, 159, 3193-203	9.3	61
264	Is it really organic?--multi-isotopic analysis as a tool to discriminate between organic and conventional plants. *Food Chemistry*, **2013**, 141, 2812-20	8.5	60
263	Changes in carbon stocks of Danish agricultural mineral soils between 1986 and 2009. *European Journal of Soil Science*, **2014**, 65, 730-740	3.4	60
262	Root carbon input in organic and inorganic fertilizer-based systems. *Plant and Soil*, **2012**, 359, 321-333	4.2	60
261	The effect of tillage intensity on soil structure and winter wheat root/shoot growth. *Soil Use and Management*, **2008**, 24, 392-400	3.1	60
260	Organic matter and soil tilth in arable farming: Management makes a difference within 5–8 years. *Agriculture, Ecosystems and Environment*, **2007**, 122, 157-172	5.7	60
259	Sensitivity of field-scale winter wheat production in Denmark to climate variability and climate change. *Climate Research*, **2000**, 15, 221-238	1.6	59
258	Simulation of above-ground suppression of competing species and competition tolerance in winter wheat varieties. *Field Crops Research*, **2004**, 89, 263-280	5.5	58
257	Digging Deeper for Agricultural Resources, the Value of Deep Rooting. *Trends in Plant Science*, **2020**, 25, 406-417	13.1	57
256	C-TOOL: A simple model for simulating whole-profile carbon storage in temperate agricultural soils. *Ecological Modelling*, **2014**, 292, 11-25	3	57
255	Similarity of differently sized macro-aggregates in arable soils of different texture. *Geoderma*, **2006**, 137, 147-154	6.7	57
254	Region-specific assessment of greenhouse gas mitigation with different manure management strategies in four agroecological zones. *Global Change Biology*, **2009**, 15, 2825-2837	11.4	56
253	Above- and below-ground competition between intercropped winter wheat Triticum aestivum and white clover Trifolium repens. *Journal of Applied Ecology*, **2006**, 43, 237-245	5.8	56
252	Review of scenario analyses to reduce agricultural nitrogen and phosphorus loading to the aquatic environment. *Science of the Total Environment*, **2016**, 573, 608-626	10.2	56
251	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, 1514-26	3.2	55
250	Effect of soil warming and rainfall patterns on soil N cycling in Northern Europe. *Agriculture, Ecosystems and Environment*, **2010**, 139, 195-205	5.7	55

249	Dairy farm CH4 and N2O emissions, from one square metre to the full farm scale. *Agriculture, Ecosystems and Environment*, **2006**, 112, 146-152	5.7	55
248	Modelling dry matter production and resource use in intercrops of pea and barley. *Field Crops Research*, **2004**, 88, 69-83	5.5	55
247	Comparing the performance of 11 crop simulation models in predicting yield response to nitrogen fertilization. *Journal of Agricultural Science*, **2016**, 154, 1218-1240	1	53
246	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 Suppl 2, 373-85	3.1	53
245	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	1	53
244	C and N mineralization of composted and anaerobically stored ruminant manure in differently textured soils. *Journal of Agricultural Science*, **2000**, 135, 151-159	1	52
243	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	3.7	51
242	Carbon dynamics and retention in soil after anaerobic digestion of dairy cattle feed and faeces. *Soil Biology and Biochemistry*, **2013**, 58, 82-87	7.5	51
241	Management effects on European cropland respiration. *Agriculture, Ecosystems and Environment*, **2010**, 139, 346-362	5.7	51
240	Soil carbon loss with warming: New evidence from carbon-degrading enzymes. *Global Change Biology*, **2020**, 26, 1944	11.4	51
239	Mitigation efforts will not fully alleviate the increase in water scarcity occurrence probability in wheat-producing areas. *Science Advances*, **2019**, 5, eaau2406	14.3	50
238	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	5.7	49
237	Performance of the SUBSTOR-potato model across contrasting growing conditions. *Field Crops Research*, **2017**, 202, 57-76	5.5	48
236	Could the changes in regional crop yields be a pointer of climatic change?. *Agricultural and Forest Meteorology*, **2012**, 166-167, 62-71	5.8	48
235	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	5	46
234	Growth and yield response of winter wheat to soil warming and rainfall patterns. *Journal of Agricultural Science*, **2010**, 148, 553-566	1	46
233	Long-term fate of nitrogen uptake in catch crops. *European Journal of Agronomy*, **2006**, 25, 383-390	5	46
232	Looking at biofuels and bioenergy. *Science*, **2006**, 312, 1743-4; author reply 1743-4	33.3	46

231	C and N turnover in structurally intact soils of different texture. *Soil Biology and Biochemistry*, **2003**, 35, 765-774	7.5	46
230	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	5.7	45
229	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	5.8	44
228	Nitrous oxide emissions and nitrogen use efficiency of manure and digestates applied to spring barley. *Agriculture, Ecosystems and Environment*, **2017**, 239, 188-198	5.7	43
227	Effects of experimental warming and nitrogen addition on soil respiration and CH4 fluxes from crop rotations of winter wheat□oybean/fallow. *Agricultural and Forest Meteorology*, **2015**, 207, 38-47	5.8	43
226	Warming and nitrogen fertilization effects on winter wheat yields in northern China varied between four years. *Field Crops Research*, **2013**, 151, 56-64	5.5	42
225	Long-term nitrogen loading alleviates phosphorus limitation in terrestrial ecosystems. *Global Change Biology*, **2020**, 26, 5077-5086	11.4	41
224	Root biomass in cereals, catch crops and weeds can be reliably estimated without considering aboveground biomass. *Agriculture, Ecosystems and Environment*, **2018**, 251, 141-148	5.7	41
223	Nitrate leaching, yields and carbon sequestration after noninversion tillage, catch crops, and straw retention. *Journal of Environmental Quality*, **2015**, 44, 868-81	3.4	41
222	Projecting the future ecological state of lakes in Denmark in a 6 degree warming scenario. *Climate Research*, **2015**, 64, 55-72	1.6	41
221	Effects of climate and nutrient load on the water quality of shallow lakes assessed through ensemble runs by PCLake **2014**, 24, 1926-44		40
220	Simulating soil N2O emissions and heterotrophic CO2 respiration in arable systems using FASSET and MoBiLE-DNDC. *Plant and Soil*, **2011**, 343, 139-160	4.2	40
219	Width of clover strips and wheat rows influence grain yield in winter wheat/white clover intercropping. *Field Crops Research*, **2006**, 95, 280-290	5.5	38
218	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	1	38
217	Multi-wheat-model ensemble responses to interannual climate variability. *Environmental Modelling and Software*, **2016**, 81, 86-101	5.2	38
216	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	4.2	37
215	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, 1593-604	3.2	37
214	Nitrogen cycling in organic farming systems with rotational grass□lover and arable crops. *Soil Use and Management*, **2006**, 22, 197-208	3.1	37

213	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO2. *Field Crops Research*, **2016**, 198, 80-92	5.5	36
212	Long-term effects of cropping system on N2O emission potential. *Soil Biology and Biochemistry*, **2013**, 57, 706-712	7.5	36
211	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	10.2	36
210	Performance of process-based models for simulation of grain N in crop rotations across Europe. *Agricultural Systems*, **2017**, 154, 63-77	6.1	35
209	Farm nitrogen balances in six European landscapes as an indicator for nitrogen losses and basis for improved management. *Biogeosciences*, **2012**, 9, 5303-5321	4.6	35
208	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	3.9	35
207	Modelling soil organic carbon in Danish agricultural soils suggests low potential for future carbon sequestration. *Agricultural Systems*, **2016**, 145, 83-89	6.1	35
206	Crop residues as driver for N2O emissions from a sandy loam soil. *Agricultural and Forest Meteorology*, **2017**, 233, 45-54	5.8	34
205	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	3.9	34
204	Apera spica-venti population dynamics and impact on crop yield as affected by tillage, crop rotation, location and herbicide programmes. *Weed Research*, **2008**, 48, 48-57	1.9	34
203	A flexible tool for simulation of soil carbon turnover. *Ecological Modelling*, **2002**, 151, 1-14	3	34
202	Crop nitrogen demand and canopy area expansion in winter wheat during vegetative growth. *European Journal of Agronomy*, **2002**, 16, 279-294	5	34
201	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	1	34
200	Reviews and syntheses: Review of causes and sources of N₂O emissions and NO₃ leaching from organic arable crop rotations. *Biogeosciences*, **2019**, 16, 2795-2819	4.6	33
199	Effect of climate change on greenhouse gas emissions from arable crop rotations. *Nutrient Cycling in Agroecosystems*, **2004**, 70, 147-160	3.3	33
198	Estimating crop yield using a satellite-based light use efficiency model. *Ecological Indicators*, **2016**, 60, 702-709	5.8	32
197	Consolidating soil carbon turnover models by improved estimates of belowground carbon input. *Scientific Reports*, **2016**, 6, 32568	4.9	32
196	A Passive Flux Sampler for Measuring Ammonia Volatilization from Manure Storage Facilities. *Journal of Environmental Quality*, **1996**, 25, 241-247	3.4	32

195	Adapting maize production to drought in the Northeast Farming Region of China. *European Journal of Agronomy*, **2016**, 77, 47-58	5	32
194	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	5	32
193	Effects of farm heterogeneity and methods for upscaling on modelled nitrogen losses in agricultural landscapes. *Environmental Pollution*, **2011**, 159, 3183-92	9.3	31
192	Changing regional weather-crop yield relationships across Europe between 1901 and 2012. *Climate Research*, **2016**, 70, 195-214	1.6	31
191	Shared socio-economic pathways extended for the Baltic Sea: exploring long-term environmental problems. *Regional Environmental Change*, **2019**, 19, 1073-1086	4.3	30
190	Risk factors for European winter oilseed rape production under climate change. *Agricultural and Forest Meteorology*, **2019**, 272-273, 30-39	5.8	29
189	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	5	29
188	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	1	29
187	Nitrogen balances of innovative cropping systems for feedstock production to future biorefineries. *Science of the Total Environment*, **2018**, 633, 372-390	10.2	28
186	Spatiotemporal variations of aridity in Iran using high-resolution gridded data. *International Journal of Climatology*, **2018**, 38, 2701-2717	3.5	28
185	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. *Agricultural Systems*, **2018**, 166, 26-35	6.1	28
184	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	5.7	28
183	Assessing ways to combat eutrophication in a Chinese drinking water reservoir using SWAT. *Marine and Freshwater Research*, **2013**, 64, 475	2.2	28
182	Nitrogen mineralization potential of organomineral size separates from soils with annual straw incorporation. *European Journal of Soil Science*, **1998**, 49, 25-36	3.4	28
181	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	1	27
180	Biological nitrogen fixation in three long-term organic and conventional arable crop rotation experiments in Denmark. *European Journal of Agronomy*, **2017**, 90, 87-95	5	27
179	Predicting nitrous oxide emissions from manure properties and soil moisture: An incubation experiment. *Soil Biology and Biochemistry*, **2016**, 97, 112-120	7.5	27
178	Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. *European Journal of Agronomy*, **2017**, 84, 152-165	5	26

177	Potential benefits of a spatially targeted regulation based on detailed N-reduction maps to decrease N-load from agriculture in a small groundwater dominated catchment. *Science of the Total Environment*, **2017**, 595, 325-336	10.2	26
176	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	5.9	26
175	Priority questions in multidisciplinary drought research. *Climate Research*, **2018**, 75, 241-260	1.6	26
174	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. *Agricultural and Forest Meteorology*, **2015**, 214-215, 483-493	5.8	25
173	Soil carbon varies between different organic and conventional management schemes in arable agriculture. *European Journal of Agronomy*, **2018**, 94, 79-88	5	25
172	Experimental warming-driven soil drying reduced N2O emissions from fertilized crop rotations of winter wheatoybean/fallow, 2009014. *Agriculture, Ecosystems and Environment*, **2016**, 219, 71-82	5.7	25
171	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	5	25
170	Acclimation to higher VPD and temperature minimized negative effects on assimilation and grain yield of wheat. *Agricultural and Forest Meteorology*, **2018**, 248, 119-129	5.8	25
169	Yield benefits from replacing chemical fertilizers with manure under water deficient conditions of the winter wheat ummer maize system in the North China Plain. *European Journal of Agronomy*, **2020**, 119, 126118	5	24
168	Sources of Nitrogen for Winter Wheat in Organic Cropping Systems. *Soil Science Society of America Journal*, **2013**, 77, 155-165	2.5	24
167	Crop growth and nitrogen turnover under increased temperatures and low autumn and winter light intensity. *Agriculture, Ecosystems and Environment*, **2010**, 139, 187-194	5.7	24
166	Impacts of climate change and variability on European agriculture: results of inventory analysis in COST 734 countries. *Annals of the New York Academy of Sciences*, **2008**, 1146, 338-53	6.5	24
165	Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. *Ambio*, **2019**, 48, 1325-1336	6.5	23
164	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	3.4	23
163	Productivity of organic and conventional arable cropping systems in long-term experiments in Denmark. *European Journal of Agronomy*, **2017**, 90, 12-22	5	23
162	Quantifying the effect of interactions between disease control, nitrogen supply and land use change on the greenhouse gas emissions associated with wheat production. *Plant Pathology*, **2010**, 59, 753-763	2.8	23
161	Climate change impacts on natural toxins in food production systems, exemplified by deoxynivalenol in wheat and diarrhetic shellfish toxins. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2012**, 29, 1647-59	3.2	22
160	Nitrogen release from differently aged Raphanus sativus L. nitrate catch crops during mineralization at autumn temperatures. *Soil Use and Management*, **2016**, 32, 183-191	3.1	22

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