

Sren O Petersen

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121
papers

4,830
citations

40
h-index

65
g-index

124
ext. papers

5,490
ext. citations

5
avg, IF

5.76
L-index

#	Paper	IF	Citations
121	Effects of sieving, storage, and incubation temperature on the phospholipid Fatty Acid profile of a soil microbial community. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 2421-30	4.8	214
120	A comprehensive approach to soil-atmosphere trace-gas flux estimation with static chambers. <i>European Journal of Soil Science</i> , 2010 , 61, 888-902	3.4	200
119	Changes in membrane lipid composition following rapid cold hardening in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2005 , 51, 1173-82	2.4	190
118	Evaluating effects of sewage sludge and household compost on soil physical, chemical and microbiological properties. <i>Applied Soil Ecology</i> , 2002 , 19, 237-248	5	183
117	Greenhouse Gas Emission from Stored Livestock Slurry. <i>Journal of Environmental Quality</i> , 2000 , 29, 744-751	3.4	158
116	Algorithms for calculating methane and nitrous oxide emissions from manure management. <i>Nutrient Cycling in Agroecosystems</i> , 2004 , 69, 143-154	3.3	146
115	Drought acclimation confers cold tolerance in the soil collembolan <i>Folsomia candida</i> . <i>Journal of Insect Physiology</i> , 2001 , 47, 1197-1204	2.4	111
114	Evidence for denitrification as main source of N ₂ O emission from residue-amended soil. <i>Soil Biology and Biochemistry</i> , 2016 , 92, 153-160	7.5	107
113	Effects of cattle slurry acidification on ammonia and methane evolution during storage. <i>Journal of Environmental Quality</i> , 2012 , 41, 88-94	3.4	107
112	Methane and carbon dioxide emissions and nitrogen turnover during liquid manure storage. <i>Nutrient Cycling in Agroecosystems</i> , 2007 , 78, 27-36	3.3	101
111	Nitrous oxide emissions and controls as influenced by tillage and crop residue management strategy. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1701-1711	7.5	100
110	Ammonia losses from urine and dung of grazing cattle: effect of N intake. <i>Atmospheric Environment</i> , 1998 , 32, 295-300	5.3	100
109	Annual emissions of CH ₄ and N ₂ O, and ecosystem respiration, from eight organic soils in Western Denmark managed by agriculture. <i>Biogeosciences</i> , 2012 , 9, 403-422	4.6	88
108	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	5.7	88
107	Tillage effects on N ₂ O emissions as influenced by a winter cover crop. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1509-1517	7.5	85
106	Effects and risk assessment of linear alkylbenzene sulfonates in agricultural soil. 1. Short-term effects on soil microbiology. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1656-1663	3.8	83
105	Nitrous oxide emissions from organic and conventional crop rotations in five European countries. <i>Agriculture, Ecosystems and Environment</i> , 2006 , 112, 200-206	5.7	81

104	Net ecosystem exchange of CO ₂ and carbon balance for eight temperate organic soils under agricultural management. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 162, 52-67	5.7	77
103	O ₂ uptake, C metabolism and denitrification associated with manure hot-spots. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 341-349	7.5	77
102	Nitrous oxide evolution from structurally intact soil as influenced by tillage and soil water content. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 967-977	7.5	75
101	Ammonia and nitrous oxide interactions: Roles of manure organic matter management. <i>Animal Feed Science and Technology</i> , 2011 , 166-167, 503-513	3	69
100	Reorganization of membrane lipids during fast and slow cold hardening in <i>Drosophila melanogaster</i> . <i>Physiological Entomology</i> , 2006 , 31, 328-335	1.9	64
99	Effects of contrasting catch crops on nitrogen availability and nitrous oxide emissions in an organic cropping system. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 199, 382-393	5.7	63
98	Ester-linked polar lipid fatty acid profiles of soil microbial communities: a comparison of extraction methods and evaluation of interference from humic acids. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1241-1249	7.5	61
97	Effects of slurry pre-treatment and application technique on short-term N ₂ O emissions as determined by a new non-linear approach. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 136, 227-235	5.7	60
96	Region-specific assessment of greenhouse gas mitigation with different manure management strategies in four agroecological zones. <i>Global Change Biology</i> , 2009 , 15, 2825-2837	11.4	56
95	Effects of <i>Lumbricus terrestris</i> , <i>Allolobophora chlorotica</i> and <i>Eisenia fetida</i> on microbial community dynamics in oil-contaminated soil. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 2065-2076	7.5	55
94	Dynamics of a Soil Microbial Community under Spring Wheat. <i>Soil Science Society of America Journal</i> , 2002 , 66, 826-833	2.5	53
93	Methane oxidation in slurry storage surface crusts. <i>Journal of Environmental Quality</i> , 2005 , 34, 455-61	3.4	50
92	Effects of grass-clover management and cover crops on nitrogen cycling and nitrous oxide emissions in a stockless organic crop rotation. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 181, 115-126	5.7	49
91	Phospholipid fatty acid profiles and C availability in wet-stable macro-aggregates from conventionally and organically farmed soils. <i>Geoderma</i> , 1997 , 78, 181-196	6.7	47
90	Effects of excretal returns and soil compaction on nitrous oxide emissions from a cattle overwintering area. <i>Agriculture, Ecosystems and Environment</i> , 2006 , 112, 186-191	5.7	47
89	Short-term N ₂ O, CO ₂ , NH ₃ fluxes, and N/C transfers in a Danish grass-clover pasture after simulated urine deposition in autumn. <i>Journal of Plant Nutrition and Soil Science</i> , 2004 , 167, 568-576	2.3	45
88	Nitrous oxide emissions and nitrogen use efficiency of manure and digestates applied to spring barley. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 239, 188-198	5.7	43
87	Emissions of sulfur-containing odorants, ammonia, and methane from pig slurry: effects of dietary methionine and benzoic acid. <i>Journal of Environmental Quality</i> , 2010 , 39, 1097-107	3.4	43

86	Emissions of CH ₄ , N ₂ O, NH ₃ and odorants from pig slurry during winter and summer storage. <i>Nutrient Cycling in Agroecosystems</i> , 2013 , 95, 103-113	3.3	42
85	Microbial N Transformations and N ₂ O Emission after Simulated Grassland Cultivation: Effects of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate (DMPP). <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	42
84	Relating soil microbial activity to water content and tillage-induced differences in soil structure. <i>Geoderma</i> , 2011 , 163, 256-264	6.7	42
83	High fluxes but different patterns of nitrous oxide and carbon dioxide emissions from soil in a cattle overwintering area. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 120, 269-279	5.7	42
82	Reduction in greenhouse gas emissions from vinasse through anaerobic digestion. <i>Applied Energy</i> , 2017 , 189, 21-30	10.7	41
81	Dynamics of a pasture soil microbial community after deposition of cattle urine amended with [13C]urea. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6363-9	4.8	39
80	3,4-Dimethylpyrazole phosphate (DMPP) reduces activity of ammonia oxidizers without adverse effects on non-target soil microorganisms and functions. <i>Applied Soil Ecology</i> , 2016 , 105, 67-75	5	39
79	Differences in cold and drought tolerance of high arctic and sub-arctic populations of <i>Megaphorura arctica</i> Tullberg 1876 (Onychiuridae: Collembola). <i>Cryobiology</i> , 2007 , 55, 315-23	2.7	38
78	Dynamics and plant uptake of nitrogen and phosphorus in soil amended with sewage sludge. <i>Applied Soil Ecology</i> , 2003 , 24, 187-195	5	38
77	Quantifying biological nitrogen fixation of different catch crops, and residual effects of roots and tops on nitrogen uptake in barley using in-situ ¹⁵ N labelling. <i>Plant and Soil</i> , 2015 , 395, 273-287	4.2	37
76	Short-term nitrous oxide emissions from pasture soil as influenced by urea level and soil nitrate. <i>Plant and Soil</i> , 2004 , 267, 117-127	4.2	37
75	Greenhouse gas emissions from liquid dairy manure: Prediction and mitigation. <i>Journal of Dairy Science</i> , 2018 , 101, 6642-6654	4	36
74	Long-term effects of cropping system on N ₂ O emission potential. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 706-712	7.5	36
73	Methanogenic community changes, and emissions of methane and other gases, during storage of acidified and untreated pig slurry. <i>Journal of Applied Microbiology</i> , 2014 , 117, 160-72	4.7	36
72	Crop residues as driver for N ₂ O emissions from a sandy loam soil. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 45-54	5.8	34
71	Temperature response of methane production in liquid manures and co-digestates. <i>Science of the Total Environment</i> , 2016 , 539, 78-84	10.2	34
70	Comparing sensitivity of ecotoxicological effect endpoints between laboratory and field. <i>Ecotoxicology and Environmental Safety</i> , 2002 , 52, 97-112	7	34
69	Redistribution of slurry components as influenced by injection method, soil, and slurry properties. <i>Journal of Environmental Quality</i> , 2003 , 32, 2399-409	3.4	33

68	Seasonal methane dynamics in three temperate grasslands on peat. <i>Plant and Soil</i> , 2012 , 357, 339-353	4.2	32
67	Methane Oxidation in Pig and Cattle Slurry Storages, and Effects of Surface Crust Moisture and Methane Availability. <i>Nutrient Cycling in Agroecosystems</i> , 2006 , 74, 1-11	3.3	31
66	Persistence and leaching potential of microorganisms and mineral N in animal manure applied to intact soil columns. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 535-42	4.8	30
65	Effects of C and N availability and soil-water potential interactions on N ₂ O evolution and PLFA composition. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1726-1733	7.5	30
64	Effects and risk assessment of linear alkylbenzene sulfonates in agricultural soil. 2. Effects on soil microbiology as influenced by sewage sludge and incubation time. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1664-1672	3.8	30
63	Temperature effects on lipid composition of the earthworms <i>Lumbricus rubellus</i> and <i>Eisenia nordenskiöldi</i> . <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1787-1791	7.5	30
62	Stochastic Diffusion Model for Estimating Trace Gas Emissions with Static Chambers. <i>Soil Science Society of America Journal</i> , 2001 , 65, 49-58	2.5	30
61	Dynamics of a Soil Microbial Community under Spring Wheat 2002 , 66, 826		29
60	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. <i>Agricultural Systems</i> , 2018 , 166, 26-35	6.1	28
59	Short-term carbon and nitrogen cycling in urine patches assessed by combined carbon-13 and nitrogen-15 labelling. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 121, 84-92	5.7	28
58	Effects of storage temperature on CH emissions from cattle manure and subsequent biogas production potential. <i>Waste Management</i> , 2020 , 101, 35-43	8.6	28
57	Estimation of Methane Emissions from Slurry Pits below Pig and Cattle Confinements. <i>PLoS ONE</i> , 2016 , 11, e0160968	3.7	27
56	Predicting nitrous oxide emissions from manure properties and soil moisture: An incubation experiment. <i>Soil Biology and Biochemistry</i> , 2016 , 97, 112-120	7.5	27
55	Effects of cattle slurry and nitrification inhibitor application on spatial soil O ₂ dynamics and N ₂ O production pathways. <i>Soil Biology and Biochemistry</i> , 2017 , 114, 200-209	7.5	26
54	Greenhouse gas mitigation by covers on livestock slurry tanks and lagoons?. <i>Journal of the Science of Food and Agriculture</i> , 2006 , 86, 1407-1411	4.3	25
53	GHG mitigation of agricultural peatlands requires coherent policies. <i>Climate Policy</i> , 2016 , 16, 522-541	5.3	24
52	Sources of Nitrogen for Winter Wheat in Organic Cropping Systems. <i>Soil Science Society of America Journal</i> , 2013 , 77, 155-165	2.5	24
51	Effects of green manure storage and incorporation methods on nitrogen release and N ₂ O emissions after soil application. <i>Biology and Fertility of Soils</i> , 2014 , 50, 1233-1246	6.1	24

50	Mitigating N ₂ O emissions from clover residues by 3,4-dimethylpyrazole phosphate (DMPP) without adverse effects on the earthworm <i>Lumbricus terrestris</i> . <i>Soil Biology and Biochemistry</i> , 2017 , 104, 95-107	7.5	23
49	Controls of nitrous oxide emission after simulated cattle urine deposition. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 188, 103-110	5.7	21
48	Global Research Alliance N ₂ O chamber methodology guidelines: Flux calculations. <i>Journal of Environmental Quality</i> , 2020 , 49, 1141-1155	3.4	20
47	Sulfur turnover and emissions during storage of cattle slurry: effects of acidification and sulfur addition. <i>Journal of Environmental Quality</i> , 2012 , 41, 1633-41	3.4	20
46	Toxic effects of tri-butyl-tin (TBT) on autotrophic pico-, nano-, and microplankton assessed by a size fractionated pollution-induced community tolerance (SF-PICT) concept. <i>Aquatic Toxicology</i> , 1998 , 40, 253-264	5.1	20
45	Oxidation of ¹³ C-labeled methane in surface crusts of pig- and cattle slurry. <i>Isotopes in Environmental and Health Studies</i> , 2005 , 41, 125-33	1.5	20
44	Power analysis as a reflexive scientific tool for interpretation and implementation of the precautionary principle in the European Union. <i>Environmental Science and Pollution Research</i> , 2002 , 9, 221-6	5.1	18
43	Influence of soil water potential and slurry type on denitrification activity. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 977-980	7.5	18
42	Characteristics of Soil Carbon Buried for 3300 Years in a Bronze Age Burial Mound. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1292-1298	2.5	17
41	Seasonal changes in lipid composition and glycogen storage associated with freeze-tolerance of the earthworm, <i>Dendrobaena octaedra</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009 , 179, 569-77	2.2	16
40	Direct Toxic Effects of TBT on Natural Enclosed Phytoplankton at Ambient TBT Concentrations of Coastal Waters. <i>Ecotoxicology</i> , 2000 , 9, 273-285	2.9	16
39	Catch Crop Residues Stimulate NO Emissions During Spring, Without Affecting the Genetic Potential for Nitrite and NO Reduction. <i>Frontiers in Microbiology</i> , 2018 , 9, 2629	5.7	14
38	Methanotrophs, methanogens and microbial community structure in livestock slurry surface crusts. <i>Journal of Applied Microbiology</i> , 2014 , 117, 1066-78	4.7	13
37	Pilot scale facility to determine gaseous emissions from livestock slurry during storage. <i>Journal of Environmental Quality</i> , 2009 , 38, 1560-8	3.4	13
36	Denitrification losses from outdoor piglet production: spatial and temporal variability. <i>Journal of Environmental Quality</i> , 2001 , 30, 1051-8	3.4	13
35	Effect of soil properties and hydrology on archaeal community composition in three temperate grasslands on peat. <i>FEMS Microbiology Ecology</i> , 2013 , 85, 227-40	4.3	12
34	Evaluation of the nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) for mitigating soil N ₂ O emissions after grassland cultivation. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 259, 174-183	5.7	11
33	Nitrate leaching and nitrous oxide emissions from maize after grass-clover on a coarse sandy soil: Mitigation potentials of 3,4-dimethylpyrazole phosphate (DMPP). <i>Journal of Environmental Management</i> , 2020 , 260, 110165	7.9	10

32	DMPP reduced nitrification, but not annual N ₂ O emissions from mineral fertilizer applied to oilseed rape on a sandy loam soil. <i>GCB Bioenergy</i> , 2019 , 11, 1396-1407	5.6	9
31	Mitigation of nitrous oxide emissions in the context of nitrogen loss reduction from agroecosystems: managing hot spots and hot moments. <i>Current Opinion in Environmental Sustainability</i> , 2020 , 47, 46-53	7.2	9
30	Redistribution and persistence of microorganisms and steroid hormones after soil-injection of swine slurry. <i>Science of the Total Environment</i> , 2014 , 466-467, 1003-10	10.2	9
29	Inhibition of methane oxidation in a slurry surface crust by inorganic nitrogen: an incubation study. <i>Journal of Environmental Quality</i> , 2013 , 42, 507-15	3.4	9
28	Seasonally distinct sources of N ₂ O in acid organic soil drained for agriculture as revealed by N ₂ O isotopomer analysis. <i>Biogeochemistry</i> , 2020 , 147, 15-33	3.8	9
27	Activity of Type I Methanotrophs Dominates under High Methane Concentration: Methanotrophic Activity in Slurry Surface Crusts as Influenced by Methane, Oxygen, and Inorganic Nitrogen. <i>Journal of Environmental Quality</i> , 2017 , 46, 767-775	3.4	8
26	Sorption of ¹⁷ Estradiol to pig slurry separates and soil in the soil-slurry environment. <i>Journal of Environmental Quality</i> , 2012 , 41, 179-87	3.4	8
25	Nitrous oxide emissions from cropping systems producing biomass for future bio-refineries. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 283, 106576	5.7	7
24	Ammonia abatement by slurry acidification: A pilot-scale study of three finishing pig production periods. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 216, 258-268	5.7	7
23	A comparison of phospholipid and chloroform fumigation analyses for biomass in soil: potentials and limitations. <i>FEMS Microbiology Ecology</i> , 1991 , 8, 257-267	4.3	7
22	Understanding methane emission from stored animal manure: A review to guide model development. <i>Journal of Environmental Quality</i> , 2021 , 50, 817-835	3.4	7
21	Does <i>Juncus effusus</i> enhance methane emissions from grazed pastures on peat?. <i>Biogeosciences</i> , 2015 , 12, 5667-5676	4.6	6
20	Effects of Acidifying Pig Diets on Emissions of Ammonia, Methane, and Sulfur from Slurry during Storage. <i>Journal of Environmental Quality</i> , 2014 , 43, 2086-95	3.4	6
19	Greenhouse Gas Emissions from Animal Manures and Technologies for Their Reduction 2013 , 177-194		6
18	Soil and temperature effects on nitrification and denitrification modified N ₂ O mitigation by 3,4-dimethylpyrazole phosphate. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108224	7.5	6
17	Specific antibiotics and nematode trophic groups agree in assessing fungal:bacterial activity in agricultural soil. <i>Soil Biology and Biochemistry</i> , 2012 , 55, 17-19	7.5	5
16	Global Research Alliance N O chamber methodology guidelines: Introduction, with health and safety considerations. <i>Journal of Environmental Quality</i> , 2020 , 49, 1073-1080	3.4	5
15	Nitrous oxide emissions from red clover and winter wheat residues depend on interacting effects of distribution, soil N availability and moisture level. <i>Plant and Soil</i> , 2021 , 466, 121-138	4.2	5

14	Nitrous Oxide Dynamics in Agricultural Peat Soil in Response to Availability of Nitrate, Nitrite, and Iron Sulfides. <i>Geomicrobiology Journal</i> , 2020 , 37, 76-85	2.5	5
13	Regulation of N ₂ O emissions from acid organic soil drained for agriculture. <i>Biogeosciences</i> , 2019 , 16, 4555-4575	4.6	4
12	Effects of dairy shed effluent dry matter content on ammonia and nitrous oxide emissions from a pasture soil. <i>Journal of Agricultural Science</i> , 2018 , 156, 1070-1078	1	4
11	A review and meta-analysis of mitigation measures for nitrous oxide emissions from crop residues.. <i>Science of the Total Environment</i> , 2022 , 828, 154388	10.2	4
10	Agricultural Biogas Production Climate and Environmental Impacts. <i>Sustainability</i> , 2022 , 14, 1849	3.6	3
9	Manure distribution as a predictor of N ₂ O emissions from soil. <i>Animal Production Science</i> , 2016 , 56, 549	1.4	3
8	Regulation of N ₂ O emissions from acid organic soil drained for agriculture: Effects of land use and season		2
7	A mechanistic model of methane emission from animal slurry with a focus on microbial groups. <i>PLoS ONE</i> , 2021 , 16, e0252881	3.7	2
6	Nitrous oxide emissions after renovation of festulolium, and mitigation potential of 3,4-dimethyl pyrazole phosphate (DMPP). <i>Geoderma</i> , 2020 , 376, 114551	6.7	1
5	Interactive effects of straw management, tillage, and a cover crop on nitrous oxide emissions and nitrate leaching from a sandy loam soil.. <i>Science of the Total Environment</i> , 2022 , 154316	10.2	1
4	Soil compaction raises nitrous oxide emissions in managed agroecosystems. A review. <i>Agronomy for Sustainable Development</i> , 2022 , 42,	6.8	1
3	Assessment of the spatial variability of apparent electrical conductivity in a tile drained catchment in Fensholt subcatchment, Jutland, Denmark for improved small-scale prediction of highly reducing areas. <i>Geoderma Regional</i> , 2020 , 23, e00336	2.7	0
2	Nitrous oxide and nitrate as indicators of subsoil removal of N in pig slurry applied to Luvisols in Western Denmark. <i>Geoderma Regional</i> , 2021 , 28, e00441	2.7	0
1	Understanding the Impact of Liquid Organic Fertilisation and Associated Application Techniques on N ₂ , N ₂ O and CO ₂ Fluxes from Agricultural Soils. <i>Agriculture (Switzerland)</i> , 2022 , 12, 692	3	0