

C Florian Stange

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,168
citations

201674

27
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

4090
citing authors

#	ARTICLE	IF	CITATIONS
1	A process-oriented model of N ₂ O and NO emissions from forest soils: 1. Model development. <i>Journal of Geophysical Research</i> , 2000, 105, 4369-4384.	3.3	486
2	New Aspects of Microbial Nitrogen Transformations in the Context of Wastewater Treatment – A Review. <i>Engineering in Life Sciences</i> , 2007, 7, 13-25.	3.6	254
3	Short-term competition between crop plants and soil microbes for inorganic N fertilizer. <i>Soil Biology and Biochemistry</i> , 2010, 42, 360-372.	8.8	186
4	Microbial processes and community composition in the rhizosphere of European beech – The influence of plant C exudates. <i>Soil Biology and Biochemistry</i> , 2011, 43, 551-558.	8.8	170
5	Formation of hybrid N ₂ O and hybrid N ₂ due to codenitrification: First review of a barely considered process of microbially mediated N-nitrosation. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1995-2011.	8.8	164
6	A process-oriented model of N ₂ O and NO emissions from forest soils: 2. Sensitivity analysis and validation. <i>Journal of Geophysical Research</i> , 2000, 105, 4385-4398.	3.3	135
7	Plants control the seasonal dynamics of microbial N cycling in a beech forest soil by belowground C allocation. <i>Ecology</i> , 2011, 92, 1036-1051.	3.2	118
8	Regional inventory of nitric oxide and nitrous oxide emissions for forest soils of southeast Germany using the biogeochemical model PnET-N-DNDC. <i>Journal of Geophysical Research</i> , 2001, 106, 34155-34166.	3.3	107
9	Gross Nitrogen Transformations and Related Nitrous Oxide Emissions in an Intensively Used Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2009, 73, 102-112.	2.2	99
10	Microbial activities and foliar uptake of nitrogen in the epiphytic bromeliad <i>Vriesea gigantea</i> . <i>New Phytologist</i> , 2007, 175, 311-320.	7.3	88
11	Temperature sensitivity of C and N mineralization in temperate forest soils at low temperatures. <i>Soil Biology and Biochemistry</i> , 2014, 69, 320-327.	8.8	83
12	Role of nitrite and nitric oxide in the processes of nitrification and denitrification in soil: Results from ¹⁵ N tracer experiments. <i>Soil Biology and Biochemistry</i> , 2009, 41, 785-795.	8.8	81
13	Microbial communities along biogeochemical gradients in a hydrocarbon-contaminated aquifer. <i>Environmental Microbiology</i> , 2013, 15, 2603-2615.	3.8	69
14	Evaluation of nitrate and ammonium as sources of NO and N ₂ O emissions from black earth soils (Haplic Chernozem) based on ¹⁵ N field experiments. <i>Soil Biology and Biochemistry</i> , 2008, 40, 380-391.	8.8	67
15	Automated and rapid online determination of ¹⁵ N abundance and concentration of ammonium, nitrite, or nitrate in aqueous samples by the SPINMAS technique. <i>Isotopes in Environmental and Health Studies</i> , 2007, 43, 227-236.	1.0	66
16	Emission rates of N ₂ O and CO ₂ from soils with different organic matter content from three long-term fertilization experiments – a laboratory study. <i>Biology and Fertility of Soils</i> , 2011, 47, 483.	4.3	64
17	Seasonal variation in nitrification and nitrate-reduction pathways in coastal sediments in the Gulf of Finland, Baltic Sea. <i>Aquatic Microbial Ecology</i> , 2011, 63, 171-181.	1.8	60
18	Modeling the Soil Water Retention Curve for Conditions of Variable Porosity. <i>Vadose Zone Journal</i> , 2005, 4, 602-613.	2.2	56

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19	Direct nitrous oxide (N ₂ O) fluxes from soils under different land use in Brazil—a critical review. <i>Environmental Research Letters</i> , 2016, 11, 023001.	5.2	53
20	A ¹⁵ N-aided artificial atmosphere gas flow technique for online determination of soil N ₂ release using the zeolite K�strolith SX6A�. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3267-3274.	1.5	51
21	Formation of hybrid N ₂ O in a suspended soil due to co-denitrification of NH ₂ OH. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 554-567.	1.9	49
22	Denitrification and N ₂ O effluxes in the Bothnian Bay (northern Baltic Sea) river sediments as affected by temperature under different oxygen concentrations. <i>Biogeochemistry</i> , 2008, 88, 63-72.	3.5	46
23	Light affects competition for inorganic and organic nitrogen between maize and rhizosphere microorganisms. <i>Plant and Soil</i> , 2008, 304, 59-72.	3.7	44
24	Denitrification and nitrous oxide effluxes in boreal, eutrophic river sediments under increasing nitrate load: a laboratory microcosm study. <i>Biogeochemistry</i> , 2008, 91, 105-116.	3.5	43
25	Effects of decreasing water potential on gross ammonification and nitrification in an acid coniferous forest soil. <i>Soil Biology and Biochemistry</i> , 2011, 43, 333-338.	8.8	37
26	Use of the inverse abundance approach to identify the sources of NO and N ₂ O release from Spanish forest soils under oxic and hypoxic conditions. <i>Soil Biology and Biochemistry</i> , 2013, 57, 451-458.	8.8	36
27	A new mathematical approach for calculating the contribution of anammox, denitrification and atmosphere to an N ₂ mixture based on a ¹⁵ N tracer technique. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2398-2406.	1.5	35
28	Species-specific differences in nitrogen uptake and utilization by six European tree species. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 28-37.	1.9	29
29	An inverse abundance approach to separate soil nitrogen pools and gaseous nitrogen fluxes into fractions related to ammonium, nitrate and soil organic nitrogen. <i>European Journal of Soil Science</i> , 2009, 60, 907-915.	3.9	28
30	¹⁵ N tracing model SimKIM to analyse the NO and N ₂ O production during autotrophic, heterotrophic nitrification, and denitrification in soils. <i>Isotopes in Environmental and Health Studies</i> , 2005, 41, 261-274.	1.0	27
31	Role of Carbon Substrates Added in the Transformation of Surplus Nitrate to Organic Nitrogen in a Calcareous Soil. <i>Pedosphere</i> , 2013, 23, 205-212.	4.0	25
32	Dynamics of Nitrogen and Carbon Mineralization in a Fen Soil Following Water Table Fluctuations. <i>Wetlands</i> , 2012, 32, 579-587.	1.5	21
33	Greenhouse gas fluxes (CO ₂ , N ₂ O and CH ₄) from forest soils in the Basque Country: Comparison of different tree species and growth stages. <i>Forest Ecology and Management</i> , 2013, 310, 600-611.	3.2	21
34	Measuring ¹⁵ N Abundance and Concentration of Aqueous Nitrate, Nitrite, and Ammonium by Membrane Inlet Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 6076-6081.	6.5	21
35	Model experiments on improving nitrogen removal in laboratory scale subsurface constructed wetlands by enhancing the anaerobic ammonia oxidation. <i>Water Science and Technology</i> , 2007, 56, 145-150.	2.5	20
36	Denitrification in the River Estuaries of the Northern Baltic Sea. <i>Ambio</i> , 2007, 36, 134-140.	5.5	19

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37	Measuring and modelling seasonal variation of gross nitrification rates in response to long-term fertilisation. <i>Biogeosciences</i> , 2009, 6, 2181-2192.	3.3	19
38	Remobilization of sterically stabilized silver nanoparticles from farmland soils determined by column leaching. <i>European Journal of Soil Science</i> , 2015, 66, 898-909.	3.9	19
39	The Role of Matric Potential, Solid Interfacial Chemistry, and Wettability on Isotopic Equilibrium Fractionation. <i>Vadose Zone Journal</i> , 2019, 18, 1-11.	2.2	19
40	A novel approach to combine response functions in ecological process modelling. <i>Ecological Modelling</i> , 2007, 204, 547-552.	2.5	18
41	Shortcomings in the Commercialized Barometric Process Separation Measuring System. <i>Soil Science Society of America Journal</i> , 2008, 72, 135-142.	2.2	16
42	Spatial and temporal variability of dissolved nitrous oxide in near-surface groundwater and bubble-mediated mass transfer to the unsaturated zone. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 601-609.	1.9	15
43	Multitracer irrigation experiments for assessing the relevance of preferential flow for non-sorbing solute transport in agricultural soil. <i>Geoderma</i> , 2020, 371, 114386.	5.1	15
44	Minor response of gross N turnover and N leaching to drying, rewetting and irrigation in the topsoil of a Norway spruce forest. <i>European Journal of Soil Science</i> , 2011, 62, 709-717.	3.9	13
45	Fate of ammonium ¹⁵ N in a Norway spruce forest under long-term reduction in atmospheric N deposition. <i>Biogeochemistry</i> , 2012, 107, 409-422.	3.5	12
46	Impact of soil texture on temporal and spatial development of osmotic-potential gradients between bulk soil and rhizosphere. <i>Journal of Plant Nutrition and Soil Science</i> , 2007, 170, 347-356.	1.9	11
47	Measuring nitrification in sediments – comparison of two techniques and three ¹⁵ NO measurement methods. <i>Isotopes in Environmental and Health Studies</i> , 2012, 48, 313-326.	1.0	10
48	Substantial net N mineralization during the dormant season in temperate forest soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 566-572.	1.9	7
49	Analysis of the coexisting pathways for NO and N ₂ O formation in Chernozem using the ¹⁵ N-tracer SimKIM-Advanced model. <i>Isotopes in Environmental and Health Studies</i> , 2013, 49, 503-519.	1.0	6
50	Measurement and simulation of herbicide transport in macroporous soils. <i>Pest Management Science</i> , 1998, 52, 241-250.	0.4	5
51	Nitrate Transformation and N ₂ O Emission in a Typical Intensively Managed Calcareous Fluvaquent Soil: A ¹⁵ -Nitrogen Tracer Incubation Study. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 1763-1777.	1.4	5
52	Model testing for nitrous oxide (N ₂ O) fluxes from Amazonian cattle pastures. <i>Atmospheric Environment</i> , 2016, 143, 67-78.	4.1	4
53	GC-R-CF-MS method to determine the ¹³ C abundance of gaseous combustion products in cigarette smoke. <i>Isotopes in Environmental and Health Studies</i> , 2007, 43, 257-262.	1.0	3
54	Missing hot moments of greenhouse gases in Southern Amazonia. <i>Erdkunde</i> , 2017, 71, 195-211.	0.8	3

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55	Competition of Plants and Microorganisms for Added Nitrogen in Different Fertilizer Forms in a Semi-Arid Climate. <i>Agronomy</i> , 2021, 11, 2472.	3.0	1