

# Sören Thiele-Bruhn

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

4,562  
citations

159525

30  
h-index

123376

61  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceutical antibiotic compounds in soils – a review. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 145-167.	1.1	1,095
2	Effects of sulfonamide and tetracycline antibiotics on soil microbial activity and microbial biomass. <i>Chemosphere</i> , 2005, 59, 457-465.	4.2	402
3	Dynamics and functional relevance of ammonia-oxidizing archaea in two agricultural soils. <i>Environmental Microbiology</i> , 2009, 11, 446-456.	1.8	276
4	Impact of the antibiotic sulfadiazine and pig manure on the microbial community structure in agricultural soils. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1583-1591.	4.2	231
5	Alterations in soil microbial activity and N-transformation processes due to sulfadiazine loads in pig-manure. <i>Environmental Pollution</i> , 2008, 153, 315-322.	3.7	207
6	Linking soil biodiversity and agricultural soil management. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 523-528.	3.1	190
7	Distribution of sulfamethazine, chlortetracycline and tylosin in manure and soil of Canadian feedlots after subtherapeutic use in cattle. <i>Environmental Pollution</i> , 2008, 156, 1243-1251.	3.7	184
8	Accumulation of Sulfonamide Resistance Genes in Arable Soils Due to Repeated Application of Manure Containing Sulfadiazine. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2527-2530.	1.4	168
9	Sorption and transport of sulfamethazine in agricultural soils amended with invasive-plant-derived biochar. <i>Journal of Environmental Management</i> , 2014, 141, 95-103.	3.8	145
10	Microbial contribution to SOM quantity and quality in density fractions of temperate arable soils. <i>Soil Biology and Biochemistry</i> , 2015, 81, 311-322.	4.2	130
11	Acid-activated biochar increased sulfamethazine retention in soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2175-2186.	2.7	107
12	Analysis, fate and effects of the antibiotic sulfadiazine in soil ecosystems. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 612-618.	5.8	100
13	Biochar-mediated sorption of antibiotics in pig manure. <i>Journal of Hazardous Materials</i> , 2019, 364, 663-670.	6.5	73
14	Microbial inhibition by pharmaceutical antibiotics in different soils – dose-response relations determined with the iron(III) reduction test. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 869-876.	2.2	69
15	Combined effects of the antibiotic sulfadiazine and liquid manure on the soil microbial community structure and functions. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 614-623.	1.1	67
16	Interaction of polar and nonpolar organic pollutants with soil organic matter: Sorption experiments and molecular dynamics simulation. <i>Science of the Total Environment</i> , 2015, 508, 276-287.	3.9	59
17	Metabolites from fungal laccase-catalysed transformation of sulfonamides. <i>Chemosphere</i> , 2010, 81, 1469-1476.	4.2	56
18	Effect of Sulfadiazine-Contaminated Pig Manure on the Abundances of Genes and Transcripts Involved in Nitrogen Transformation in the Root-Rhizosphere Complexes of Maize and Clover. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7903-7909.	1.4	53

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19	Effects of slurry from sulfadiazine- (SDZ) and difloxacin- (DIF) medicated pigs on the structural diversity of microorganisms in bulk and rhizosphere soil. <i>Soil Biology and Biochemistry</i> , 2013, 62, 82-91.	4.2	53
20	Strategies for the efficient estimation of soil organic carbon at the field scale with vis-NIR spectroscopy: Spectral libraries and spiking vs. local calibrations. <i>Geoderma</i> , 2019, 354, 113856.	2.3	48
21	Effects of sulfadiazine-contaminated fresh and stored manure on a soil microbial community. <i>European Journal of Soil Biology</i> , 2011, 47, 61-68.	1.4	46
22	Tree species affect soil organic matter stocks and stoichiometry in interaction with soil microbiota. <i>Geoderma</i> , 2019, 353, 35-46.	2.3	45
23	Effect of Sulfadiazine on Abundance and Diversity of Denitrifying Bacteria by Determining nirK and nirS Genes in Two Arable Soils. <i>Microbial Ecology</i> , 2010, 60, 703-707.	1.4	41
24	Contamination status and assessment of urban and non-urban soils in the region of Sulaimani City, Kurdistan, Iraq. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	39
25	Quantification of Soil Properties with Hyperspectral Data: Selecting Spectral Variables with Different Methods to Improve Accuracies and Analyze Prediction Mechanisms. <i>Remote Sensing</i> , 2017, 9, 1103.	1.8	39
26	Identification of new microbial functional standards for soil quality assessment. <i>Soil</i> , 2020, 6, 17-34.	2.2	39
27	Sulfonamides Leach from Sandy Loam Soils Under Common Agricultural Practice. <i>Water, Air, and Soil Pollution</i> , 2010, 211, 143-156.	1.1	38
28	Influence of difloxacin-contaminated manure on microbial community structure and function in soils. <i>Biology and Fertility of Soils</i> , 2011, 47, 177-186.	2.3	37
29	Using Variable Selection and Wavelets to Exploit the Full Potential of Visible–Near Infrared Spectra for Predicting Soil Properties. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 255-269.	0.8	37
30	Use of A Portable Camera for Proximal Soil Sensing with Hyperspectral Image Data. <i>Remote Sensing</i> , 2015, 7, 11434-11448.	1.8	35
31	Composition of organic matter in particle size fractionated pig slurry. <i>Bioresource Technology</i> , 2009, 100, 5736-5743.	4.8	31
32	Soil microbial community responses to antibiotic-contaminated manure under different soil moisture regimes. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 6487-6495.	1.7	31
33	Biochar affects the dissipation of antibiotics and abundance of antibiotic resistance genes in pig manure. <i>Bioresource Technology</i> , 2020, 315, 123782.	4.8	31
34	The linkage of <sup>13</sup> C and <sup>15</sup> N soil depth gradients with C:N and O:C stoichiometry reveals tree species effects on organic matter turnover in soil. <i>Biogeochemistry</i> , 2020, 151, 203-220.	1.7	30
35	Impact of manure-related DOM on sulfonamide transport in arable soils. <i>Journal of Contaminant Hydrology</i> , 2016, 192, 118-128.	1.6	28
36	Towards a molecular level understanding of the sulfanilamide-soil organic matter-interaction. <i>Science of the Total Environment</i> , 2016, 559, 347-355.	3.9	20

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37	Effect of multivalent cations, temperature and aging on soil organic matter interfacial properties. <i>Environmental Chemistry</i> , 2014, 11, 709.	0.7	15
38	Soil bacterial community response to sulfadiazine in the soil–root zone. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 499-506.	1.1	15
39	Sulfadiazine uptake and effects in common hazel ( <i>Corylus avellana</i> L.). <i>Environmental Science and Pollution Research</i> , 2015, 22, 13362-13371.	2.7	15
40	Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200185.	1.8	15
41	Short-term evolution of hydration effects on soil organic matter properties and resulting implications for sorption of naphthalene-2-ol. <i>Journal of Soils and Sediments</i> , 2012, 12, 1269-1279.	1.5	14
42	The molecular composition of extractable soil microbial compounds and their contribution to soil organic matter vary with soil depth and tree species. <i>Science of the Total Environment</i> , 2021, 781, 146732.	3.9	14
43	Soil microbial community responses to sulfadiazine-contaminated manure in different soil microhabitats. <i>Applied Soil Ecology</i> , 2014, 80, 15-25.	2.1	13
44	Vertical root distribution in single-crop and intercropping agricultural systems in Central Kenya. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 742-749.	1.1	10
45	Effects of Plastic versus Straw Mulching Systems on Soil Microbial Community Structure and Enzymes in Strawberry Cultivation. <i>Soil Systems</i> , 2022, 6, 21.	1.0	10
46	Effect of multivalent cations, temperature, and aging on SOM thermal properties. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1203-1213.	2.0	9
47	A proteomic and biochemical investigation on the effects of sulfadiazine in <i>Arabidopsis thaliana</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 178, 146-158.	2.9	9
48	Response of soil microorganisms and enzyme activities on the decomposition of transgenic cyanophycin-producing potatoes during overwintering in soil. <i>European Journal of Soil Biology</i> , 2012, 53, 1-10.	1.4	8
49	Sorption of PAHs and PAH derivatives in peat soil is affected by prehydration status: the role of SOM and sorbate properties. <i>Journal of Soils and Sediments</i> , 2020, 20, 3644-3655.	1.5	8
50	The role of soils in provision of genetic, medicinal and biochemical resources. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200183.	1.8	8
51	Assessment of the soil phosphorus mobilization potential by microbial reduction using the Fe(III)-reduction test. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 784-791.	1.1	6
52	Phosphorus fractions and speciation in rural and urban calcareous soils in the semiarid region of Sulaimani city, Kurdistan, Iraq. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	6
53	Content of soil organic carbon and labile fractions depend on local combinations of mineral-phase characteristics. <i>Soil</i> , 2022, 8, 113-131.	2.2	6
54	Interaction of pig manure-derived dissolved organic matter with soil affects sorption of sulfadiazine, caffeine and atenolol pharmaceuticals. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4299-4313.	1.8	5

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55	Major metabolites of NBPT degradation pathways contribute to urease inhibition in soil. Chemosphere, 2022, 303, 135163.	4.2	5
56	Element mobility related to rock weathering and soil formation at the westward side of the southernmost Patagonian Andes. Science of the Total Environment, 2022, 817, 152977.	3.9	4
57	Time-resolved <i>in situ</i> pH measurement in differently treated, saturated and unsaturated soils. Journal of Plant Nutrition and Soil Science, 2015, 178, 425-432.	1.1	3
58	High-resolution stalagmite stratigraphy supports the Late Holocene tephrochronology of southernmost Patagonia. Communications Earth & Environment, 2022, 3, .	2.6	3
59	Accuracy and Reproducibility of Laboratory Diffuse Reflectance Measurements with Portable VNIR and MIR Spectrometers for Predictive Soil Organic Carbon Modeling. Sensors, 2022, 22, 2749.	2.1	3
60	Coevolution of organic substances and soils: links between soil forming processes and the stabilisation of organic substances. Journal of Soils and Sediments, 2012, 12, 1209-1210.	1.5	2
61	Middle to Late Holocene mobilization of DOC-bound Pb and Y in the Magellanic moorlands (53°S) as a function of sea spray fertilization, climate variations and volcanic fallout? A preliminary report. E&G Quaternary Science Journal, 2018, 67, 1-6.	0.2	1
62	Fast and sensitive <i>in vivo</i> studies under controlled environmental conditions to substitute long-term field trials with genetically modified plants. Journal of Biotechnology, 2017, 243, 48-60.	1.9	0
63	Reprint of "Fast and sensitive <i>in vivo</i> studies under controlled environmental conditions to substitute long-term field trials with genetically modified plants". Journal of Biotechnology, 2017, 257, 22-34.	1.9	0
64	Biochar for modification of manure properties. Advances in Chemical Pollution, Environmental Management and Protection, 2021, , 137-174.	0.3	0