

Florian Wichern

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,466
citations

304602

22
h-index

206029

48
g-index

54
all docs

54
docs citations

54
times ranked

2741
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative assessment of the fungal contribution to microbial tissue in soil. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2977-2991.	4.2	515
2	Impact of salinity on soil microbial communities and the decomposition of maize in acidic soils. <i>Geoderma</i> , 2006, 137, 100-108.	2.3	359
3	Nitrogen rhizodeposition in agricultural crops: Methods, estimates and future prospects. <i>Soil Biology and Biochemistry</i> , 2008, 40, 30-48.	4.2	244
4	Alive and kicking: Why dormant soil microorganisms matter. <i>Soil Biology and Biochemistry</i> , 2018, 116, 419-430.	4.2	181
5	Africa's wooden elephant: the baobab tree (<i>Adansonia digitata</i> L.) in Sudan and Kenya: a review. <i>Genetic Resources and Crop Evolution</i> , 2016, 63, 377-399.	0.8	98
6	Release of C and N from roots of peas and oats and their availability to soil microorganisms. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2829-2839.	4.2	90
7	Rhizodeposition of C and N in peas and oats after ¹³ C- ¹⁵ N double labelling under field conditions. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2527-2537.	4.2	77
8	Living in the plastic age - Different short-term microbial response to microplastics addition to arable soils with contrasting soil organic matter content and farm management legacy. <i>Environmental Pollution</i> , 2020, 267, 115468.	3.7	57
9	Winter is coming – Impact of temperature on the variation of beta-lactamase and mcr genes in a wastewater treatment plant. <i>Science of the Total Environment</i> , 2020, 712, 136499.	3.9	55
10	Drainage, salt leaching and physico-chemical properties of irrigated man-made terrace soils in a mountain oasis of northern Oman. <i>Geoderma</i> , 2005, 125, 273-285.	2.3	49
11	Organic Amendments Alleviate Salinity Effects on Soil Microorganisms and Mineralisation Processes in Aerobic and Anaerobic Paddy Rice Soils. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	48
12	Effects of manure quality and application forms on soil C and N turnover of a subtropical oasis soil under laboratory conditions. <i>Biology and Fertility of Soils</i> , 2004, 39, 165-171.	2.3	45
13	Respiration pattern and microbial use of field-grown transgenic Bt-maize residues. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2380-2389.	4.2	36
14	Catch crops store more nitrogen below-ground when considering Rhizodeposits. <i>Plant and Soil</i> , 2017, 417, 287-299.	1.8	33
15	Field measurements of the CO ₂ evolution rate under different crops during an irrigation cycle in a mountain oasis of Oman. <i>Applied Soil Ecology</i> , 2004, 25, 85-91.	2.1	32
16	Spatial patterns of soil biological and physical properties in a ridge tilled and a ploughed Luvisol. <i>Soil and Tillage Research</i> , 2009, 105, 88-95.	2.6	31
17	Restoring nutrient circularity: A review of nutrient stock and flow analyses of local agro-food-waste systems. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104901.	5.3	29
18	Stem labeling results in different patterns of ¹⁴ C rhizorespiration and ¹⁵ N distribution in plants compared to natural assimilation pathways. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 732-741.	1.1	28

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19	Digging in the dirt – Inadequacy of belowground plant biomass quantification. <i>Soil Biology and Biochemistry</i> , 2016, 96, 137-144.	4.2	27
20	Excellent excrement? Frass impacts on a soil's microbial community, processes and metal bioavailability. <i>Applied Soil Ecology</i> , 2021, 168, 104110.	2.1	25
21	Soil Microbial Properties Along a Precipitation Transect in Southern Africa. <i>Arid Land Research and Management</i> , 2009, 23, 115-126.	0.6	24
22	Changes in amino acid enantiomers and microbial performance in soils from a subtropical mountain oasis in Oman abandoned for different periods. <i>Biology and Fertility of Soils</i> , 2004, 39, 398-406.	2.3	23
23	Dose-dependent reactions of <i>Aporrectodea caliginosa</i> to perfluorooctanoic acid and perfluorooctanesulfonic acid in soil. <i>Ecotoxicology and Environmental Safety</i> , 2013, 95, 39-43.	2.9	23
24	Investigation of nutritional characteristics and free radical scavenging activity of wild apple, pear, rosehip, and barberry from the walnut-fruit forests of Kyrgyzstan. <i>European Food Research and Technology</i> , 2020, 246, 1095-1104.	1.6	22
25	Rice straw addition does not substantially alter microbial properties under hypersaline soil conditions. <i>Biology and Fertility of Soils</i> , 2016, 52, 867-877.	2.3	20
26	Even flow? Changes of carbon and nitrogen release from pea roots over time. <i>Plant and Soil</i> , 2018, 431, 143-157.	1.8	19
27	Evaluation of the wick method for in situ ¹³ C and ¹⁵ N labelling of annual plants using sugar-urea mixtures. <i>Plant and Soil</i> , 2010, 329, 105-115.	1.8	18
28	Black Soldier Fly Diet Impacts Soil Greenhouse Gas Emissions From Frass Applied as Fertilizer. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	17
29	Restoring nutrient circularity in a nutrient-saturated area in Germany requires systemic change. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 121, 209-226.	1.1	17
30	In the land of plenty: catch crops trigger nitrogen uptake by soil microorganisms. <i>Plant and Soil</i> , 2018, 423, 549-562.	1.8	16
31	Get on your boots: estimating root biomass and rhizodeposition of peas under field conditions reveals the necessity of field experiments. <i>Plant and Soil</i> , 2019, 443, 449-462.	1.8	16
32	Determination of physicochemical parameters, phenolic content, and antioxidant capacity of wild cherry plum (<i>Prunus divaricata</i> Ledeb.) from the walnut-fruit forests of Kyrgyzstan. <i>European Food Research and Technology</i> , 2019, 245, 2293-2301.	1.6	16
33	Relationship between Remote Sensing Data, Plant Biomass and Soil Nitrogen Dynamics in Intensively Managed Grasslands under Controlled Conditions. <i>Sensors</i> , 2017, 17, 1483.	2.1	14
34	Microbial Biomass Sulphur – An Important Yet Understudied Pool in Soil. <i>Agronomy</i> , 2021, 11, 1606.	1.3	14
35	Priming effects of <i>Aporrectodea caliginosa</i> on young rhizodeposits and old soil organic matter following wheat straw addition. <i>European Journal of Soil Biology</i> , 2015, 70, 38-45.	1.4	13
36	Hydrochar, digestate, and process water impacts on a soil's microbial community, processes, and metal bioavailability. <i>Soil Science Society of America Journal</i> , 2021, 85, 717-731.	1.2	11

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37	CO ₂ evolution from a ridge tilled and a mouldboard ploughed Luvisol in the field. <i>Applied Soil Ecology</i> , 2009, 43, 89-94.	2.1	10
38	The Household Resistome: Frequency of β -Lactamases, Class 1 Integrons, and Antibiotic-Resistant Bacteria in the Domestic Environment and Their Reduction during Automated Dishwashing and Laundering. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	10
39	Hazenite: a new secondary phosphorus, potassium and magnesium fertiliser. <i>Plant, Soil and Environment</i> , 2020, 66, 1-6.	1.0	10
40	Soil fertility breakdown in a subtropical South African vertisol site used as a home garden. <i>Biology and Fertility of Soils</i> , 2003, 37, 288-294.	2.3	9
41	Evidence of considerable C and N transfer from peas to cereals via direct root contact but not via mycorrhiza. <i>Scientific Reports</i> , 2021, 11, 11424.	1.6	9
42	Quantification of Grassland Biomass and Nitrogen Content through UAV Hyperspectral Imagery – Active Sample Selection for Model Transfer. <i>Drones</i> , 2022, 6, 73.	2.7	9
43	Mitigating Negative Microbial Effects of p-Nitrophenol, Phenol, Copper and Cadmium in a Sandy Loam Soil Using Biochar. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	8
44	Distinct Resistomes and Microbial Communities of Soils, Wastewater Treatment Plants and Households Suggest Development of Antibiotic Resistances Due to Distinct Environmental Conditions in Each Environment. <i>Antibiotics</i> , 2021, 10, 514.	1.5	8
45	Plant availability of magnesium and phosphorus from struvite with concurrent nitrification inhibitor application. <i>Soil Use and Management</i> , 2019, 35, 675-682.	2.6	7
46	Interactions of mustard plants and soil microorganisms after application of sugarcane filter cake and pea residues to an Andosol. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 931-938.	1.1	6
47	Short-term effects of polyacrylamide and dicyandiamide on C and N mineralization in a sandy loam soil. <i>Soil Use and Management</i> , 2016, 32, 127-136.	2.6	6
48	Change of ergosterol content after inorganic N fertilizer application does not affect short-term C and N mineralization patterns in a grassland soil. <i>Applied Soil Ecology</i> , 2017, 111, 57-64.	2.1	5
49	Intraspecific variability overlays abiotic site effects on some quality parameters of walnut (<i>Juglans</i>) Tj ETQq1 1 0.784314 rgBT ₄ /Overlo	1.6	4
50	Nitrogen Immobilisation and Microbial Biomass Build-Up Induced by <i>Miscanthus x giganteus</i> L. Based Fertilisers. <i>Agronomy</i> , 2021, 11, 1386.	1.3	4
51	Mycorrhiza Reduces Phosphorus Uptake from Struvite in Rye (<i>Secale cereale</i> L.) Plants. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 3451-3460.	1.7	3
52	Effects of salinity on seedling emergence and early seedling growth of <i>Irvingia gabonensis</i> (Irvingiaceae). <i>Seed Science and Technology</i> , 2017, 45, 282-295.	0.6	0
53	Utilisation of <i>Miscanthus x giganteus</i> L. Based C-Rich Fertilisers for N Immobilisation and Microbial Biomass Build-Up in a Crop Rotation. <i>Agronomy</i> , 2021, 11, 2390.	1.3	0