

# Timo Kautz

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,896  
citations

279798

23  
h-index

265206

42  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nutrient acquisition from arable subsoils in temperate climates: A review. <i>Soil Biology and Biochemistry</i> , 2013, 57, 1003-1022.	8.8	239
2	Biochar Affected by Composting with Farmyard Manure. <i>Journal of Environmental Quality</i> , 2013, 42, 164-172.	2.0	143
3	Root-length densities of various annual crops following crops with contrasting root systems. <i>Soil and Tillage Research</i> , 2014, 137, 50-57.	5.6	100
4	Modeling biopore effects on root growth and biomass production on soils with pronounced sub-soil clay accumulation. <i>Ecological Modelling</i> , 2013, 256, 6-15.	2.5	86
5	Sorption of copper (II) and sulphate to different biochars before and after composting with farmyard manure. <i>European Journal of Soil Science</i> , 2012, 63, 399-409.	3.9	84
6	Research on subsoil biopores and their functions in organically managed soils: A review. <i>Renewable Agriculture and Food Systems</i> , 2015, 30, 318-327.	1.8	82
7	Root growth dynamics inside and outside of soil biopores as affected by crop sequence determined with the profile wall method. <i>Biology and Fertility of Soils</i> , 2015, 51, 847-856.	4.3	78
8	Microbial activity in a sandy arable soil is governed by the fertilization regime. <i>European Journal of Soil Biology</i> , 2004, 40, 87-94.	3.2	77
9	Evidence of improved water uptake from subsoil by spring wheat following lucerne in a temperate humid climate. <i>Field Crops Research</i> , 2012, 126, 56-62.	5.1	75
10	The effect of earthworm activity on soil bioporosity – Investigated with X-ray computed tomography and endoscopy. <i>Soil and Tillage Research</i> , 2015, 146, 79-88.	5.6	69
11	Abundance and biodiversity of soil microarthropods as influenced by different types of organic manure in a long-term field experiment in Central Spain. <i>Applied Soil Ecology</i> , 2006, 33, 278-285.	4.3	65
12	Root growth in biopores – evaluation with in situ endoscopy. <i>Plant and Soil</i> , 2013, 371, 179-190.	3.7	64
13	Community structure of prokaryotes and their functional potential in subsoils is more affected by spatial heterogeneity than by temporal variations. <i>Soil Biology and Biochemistry</i> , 2014, 75, 197-201.	8.8	51
14	Prokaryotes in Subsoil – Evidence for a Strong Spatial Separation of Different Phyla by Analysing Co-occurrence Networks. <i>Frontiers in Microbiology</i> , 2015, 6, 1269.	3.5	49
15	Contribution of anecic earthworms to biopore formation during cultivation of perennial ley crops. <i>Pedobiologia</i> , 2014, 57, 47-52.	1.2	47
16	Quantification of soil biopore density after perennial fodder cropping. <i>Plant and Soil</i> , 2015, 394, 73-85.	3.7	46
17	Effects of perennial fodder crops on soil structure in agricultural headlands. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 490-501.	1.9	45
18	Barley roots are not constrained to large-sized biopores in the subsoil of a deep Haplic Luvisol. <i>Biology and Fertility of Soils</i> , 2013, 49, 959-963.	4.3	44

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19	Six months of <i>L. terrestris</i> L. activity in root-formed biopores increases nutrient availability, microbial biomass and enzyme activity. <i>Applied Soil Ecology</i> , 2017, 120, 135-142.	4.3	44
20	Subsoil arbuscular mycorrhizal fungal communities in arable soil differ from those in topsoil. <i>Soil Biology and Biochemistry</i> , 2018, 117, 83-86.	8.8	38
21	Modeling the Impact of Biopores on Root Growth and Root Water Uptake. <i>Vadose Zone Journal</i> , 2019, 18, 1-20.	2.2	36
22	Spatial variability of hydrolytic and oxidative potential enzyme activities in different subsoil compartments. <i>Biology and Fertility of Soils</i> , 2015, 51, 517-521.	4.3	33
23	Precrop root system determines root diameter of subsequent crop. <i>Biology and Fertility of Soils</i> , 2016, 52, 113-118.	4.3	30
24	Vertical Root Distribution of Different Cover Crops Determined with the Profile Wall Method. <i>Agriculture (Switzerland)</i> , 2020, 10, 503.	3.1	24
25	Dynamics of plant nutrient uptake as affected by biopore-associated root growth in arable subsoil. <i>Plant and Soil</i> , 2017, 415, 145-160.	3.7	22
26	Bacteria utilizing plant-derived carbon in the rhizosphere of <i>Triticum aestivum</i> change in different depths of an arable soil. <i>Environmental Microbiology Reports</i> , 2017, 9, 729-741.	2.4	21
27	Distinct communities of Cercozoa at different soil depths in a temperate agricultural field. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	21
28	Grouping and classification of wheat from organic and conventional production systems by combining three image forming methods. <i>Biological Agriculture and Horticulture</i> , 2011, 27, 320-336.	1.0	20
29	Abundance of ammonia oxidizing microbes and denitrifiers in different soil horizons of an agricultural soil in relation to the cultivated crops. <i>Biology and Fertility of Soils</i> , 2013, 49, 1243-1246.	4.3	20
30	Optimising Cropping Techniques for Nutrient and Environmental Management in Organic Agriculture. <i>Sustainable Agriculture Research</i> , 2015, 4, 15.	0.3	20
31	The Chemical Composition of Biogas Digestates Determines Their Effect on Soil Microbial Activity. <i>Agriculture (Switzerland)</i> , 2020, 10, 244.	3.1	18
32	Can precrops uplift subsoil nutrients to topsoil?. <i>Plant and Soil</i> , 2021, 463, 329-345.	3.7	18
33	<i>In situ</i> endoscopy: New insights to root growth in biopores. <i>Plant Biosystems</i> , 2010, 144, 440-442.	1.6	16
34	Comparing Macropore Exploration by Faba Bean, Wheat, Barley and Oilseed Rape Roots Using In Situ Endoscopy. <i>Journal of Soil Science and Plant Nutrition</i> , 2019, 19, 689-700.	3.4	15
35	Crop Resilience to Drought With and Without Response Diversity. <i>Frontiers in Plant Science</i> , 2020, 11, 721.	3.6	14
36	On the Ecology and Conservation of <i>Spruceanthus theobromae</i> (Lejeuneaceae, Hepaticae) from Western Ecuador. <i>Bryologist</i> , 2001, 104, 607-612.	0.6	12

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37	Organic Manure Increases Carbon Sequestration Far beyond the 4 per 1000 Initiative Goal on a Sandy Soil in the Thyrow Long-Term Field Experiment DIV.2. <i>Agriculture (Switzerland)</i> , 2022, 12, 170.	3.1	7
38	Effects of mixing two legume species at seedling stage under different environmental conditions. <i>PeerJ</i> , 2021, 9, e10615.	2.0	6
39	Root Growth of <i>Hordeum vulgare</i> and <i>Vicia faba</i> in the Biopore Sheath. <i>Agriculture (Switzerland)</i> , 2020, 10, 650.	3.1	4
40	Root Distribution of <i>Brassica napus</i> and <i>Vicia faba</i> within the Sheath of Root or Earthworm Biopore. <i>Agriculture (Switzerland)</i> , 2021, 11, 61.	3.1	3
41	Chloride Changes Soil-Plant Water Relations in Potato ( <i>Solanum tuberosum</i> L.). <i>Agronomy</i> , 2021, 11, 736.	3.0	3
42	Root and shoot growth of spring wheat ( <i>Triticum aestivum</i> L.) are differently affected by increasing subsoil biopore density when grown under different subsoil moisture. <i>Biology and Fertility of Soils</i> , 2021, 57, 1155.	4.3	3
43	Relating Profile Wall Root-Length Density Estimates to Monolith Root-Length Density Measurements of Cover Crops. <i>Agronomy</i> , 2022, 12, 48.	3.0	2
44	Effect of crop rotation and straw application in combination with mineral nitrogen fertilization on soil carbon sequestration in the Thyrow long-term experiment Thy_D5. <i>Plant and Soil</i> , 0, , 1.	3.7	2
45	Monitoring N:P Ratio and Cd, Cu, Pb, and Zn Contents in Different Types of Anaerobic Digestates: A Six-Year Study Case. <i>International Journal of Agronomy</i> , 2020, 2020, 1-7.	1.2	0
46	Metabolic activity of <i>Hordeum vulgare</i> , <i>Brassica napus</i> and <i>Vicia faba</i> in Worm and Root type Biopore Sheaths. <i>Plant and Soil</i> , 2022, 472, 565.	3.7	0