Christian Poll

List of Publications by Year in descending order

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172207 138251 3,574 60 29 58 citations h-index g-index papers 62 62 62 5718 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Longâ€term manipulation of mean climatic conditions alters drought effects on C―and Nâ€cycling in an arable soil. Global Change Biology, 2022, 28, 3974-3990.	4.2	6
2	Heavy rainfall following a summer drought stimulates soil redox dynamics and facilitates rapid and deep translocation of glyphosate in floodplain soils. Environmental Sciences: Processes and Impacts, 2022, , .	1.7	2
3	13C assimilation as well as functional gene abundance and expression elucidate the biodegradation of glyphosate in a field experiment. Environmental Pollution, 2022, 306, 119382.	3.7	6
4	Changes in Chemical and Microbial Soil Parameters Following 8ÂYears of Deadwood Decay: An Experiment with Logs of 13 Tree Species in 30 Forests. Ecosystems, 2021, 24, 955-967.	1.6	24
5	What's in a colluvial deposit? Perspectives from archaeopedology. Catena, 2021, 198, 105040.	2.2	12
6	Modeling temperature sensitivity of soil organic matter decomposition: Splitting the pools. Soil Biology and Biochemistry, 2021, 153, 108108.	4.2	10
7	Microbial Utilisation of Aboveground Litter-Derived Organic Carbon Within a Sandy Dystric Cambisol Profile. Frontiers in Soil Science, $2021, 1, .$	0.8	11
8	Middle Bronze Age land use practices in the northwestern Alpine foreland – a multi-proxy study of colluvial deposits, archaeological features and peat bogs. Soil, 2021, 7, 269-304.	2,2	12
9	Independent effects of warming and altered precipitation pattern on nematode community structure in an arable field. Agriculture, Ecosystems and Environment, 2021, 316, 107467.	2.5	9
10	Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24885-24892.	3.3	50
11	Biodegradation of Pesticides at the Limit: Kinetics and Microbial Substrate Use at Low Concentrations. Frontiers in Microbiology, 2020, 11, 2107.	1.5	21
12	Do Soil Warming and Changes in Precipitation Patterns Affect Seed Yield and Seed Quality of Field-Grown Winter Oilseed Rape?. Agronomy, 2020, 10, 520.	1.3	11
13	Plant litter enhances degradation of the herbicide MCPA and increases formation of biogenic non-extractable residues in soil. Environment International, 2020, 142, 105867.	4.8	10
14	Spatial Control of Carbon Dynamics in Soil by Microbial Decomposer Communities. Frontiers in Environmental Science, 2020, 8, .	1.5	15
15	Soil Properties Control Microbial Carbon Assimilation and Its Mean Residence Time. Frontiers in Environmental Science, 2020, 8, .	1.5	10
16	Vineyard management system affects soil microbiological properties. Oeno One, 2020, 54, .	0.7	9
17	Fungi and bacteria respond differently to changing environmental conditions within a soil profile. Soil Biology and Biochemistry, 2019, 137, 107543.	4.2	31
18	Earthworms modulate the effects of climate warming on the taxon richness of soil meso- and macrofauna in an agricultural system. Agriculture, Ecosystems and Environment, 2019, 278, 72-80.	2.5	23

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19	Inquiry-Based Learning in theÂLife Sciences. , 2019, , 171-180.		1
20	Controls on microbially regulated soil organic carbon decomposition at the regional scale. Soil Biology and Biochemistry, 2018, 118, 59-68.	4.2	35
21	Cross-laboratory comparison of fluorimetric microplate and colorimetric bench-scale soil enzyme assays. Soil Biology and Biochemistry, 2018, 121, 240-248.	4.2	22
22	Offsetting global warmingâ€induced elevated greenhouse gas emissions from an arable soil by biochar application. Global Change Biology, 2018, 24, e318-e334.	4.2	75
23	Water flow drives small scale biogeography of pesticides and bacterial pesticide degraders - A microcosm study using 2,4-D as a model compound. Soil Biology and Biochemistry, 2018, 127, 137-147.	4.2	10
24	Dynamics of soil respiration and microbial communities: Interactive controls of temperature and substrate quality. Soil Biology and Biochemistry, 2018, 127, 60-70.	4.2	47
25	Influence of elevated soil temperature and biochar application on organic matter associated with aggregate-size and density fractions in an arable soil. Agriculture, Ecosystems and Environment, 2017, 241, 79-87.	2.5	45
26	Microbial community response to changes in substrate availability and habitat conditions in a reciprocal subsoil transfer experiment. Soil Biology and Biochemistry, 2017, 105, 138-152.	4.2	39
27	Carbon flow from litter through soil microorganisms: From incorporation rates to mean residence times in bacteria and fungi. Soil Biology and Biochemistry, 2017, 115, 187-196.	4.2	53
28	Interaction of minerals, organic matter, and microorganisms during biogeochemical interface formation as shown by a series of artificial soil experiments. Biology and Fertility of Soils, 2017, 53, 9-22.	2.3	67
29	The impact of chemical pollution on the resilience of soils under multiple stresses: A conceptual framework for future research. Science of the Total Environment, 2016, 568, 1076-1085.	3.9	37
30	Quantifying global soil carbon losses in response to warming. Nature, 2016, 540, 104-108.	13.7	879
31	Partitioning of ecosystem respiration in winter wheat and silage maizeâ€"modeling seasonal temperature effects. Agriculture, Ecosystems and Environment, 2016, 224, 131-144.	2.5	18
32	Modeling coupled pesticide degradation and organic matter turnover: From gene abundance to process rates. Soil Biology and Biochemistry, 2016, 103, 349-364.	4.2	22
33	Short-term response of soil microorganisms to biochar addition in a temperate agroecosystem under soil warming. Agriculture, Ecosystems and Environment, 2016, 233, 308-317.	2.5	60
34	Effect of water redistribution by two distinct saprotrophic fungi on carbon mineralization and nitrogen translocation in dry soil. Soil Biology and Biochemistry, 2016, 103, 380-387.	4.2	10
35	Fungal biomass and extracellular enzyme activities in coarse woody debris of 13 tree species in the early phase of decomposition. Forest Ecology and Management, 2016, 378, 181-192.	1.4	51
36	Temperature response of soil respiration largely unaltered with experimental warming. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13797-13802.	3.3	308

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37	Succession of soil microbial communities and enzyme activities in artificial soils. Pedobiologia, 2016, 59, 93-104.	0.5	21
38	Evidence for the importance of litter as a co-substrate for MCPA dissipation in an agricultural soil. Environmental Science and Pollution Research, 2016, 23, 4164-4175.	2.7	9
39	Modelling in situ activities of enzymes as a tool to explain seasonal variation of soil respiration from agro-ecosystems. Soil Biology and Biochemistry, 2015, 81, 291-303.	4.2	48
40	Additive effects of earthworms, nitrogen-rich litter and elevated soil temperature on N2O emission and nitrate leaching from an arable soil. Applied Soil Ecology, 2015, 86, 55-61.	2.1	34
41	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. Biogeosciences, 2014, 11, 2991-3013.	1.3	74
42	Corrigendum to & Corrigendum to amp;quot; Can current moisture responses predict soil CO& (Color) amp; It; sub (Color) amp; sub (Color) am	1.3	10
43	Micro-scale modeling of pesticide degradation coupled to carbon turnover in the detritusphere: model description and sensitivity analysis. Biogeochemistry, 2014, 117, 185-204.	1.7	20
44	Field-scale manipulation of soil temperature and precipitation change soil CO2 flux in a temperate agricultural ecosystem. Agriculture, Ecosystems and Environment, 2013, 165, 88-97.	2.5	83
45	Impacts of temperature increase and change in precipitation pattern on crop yield and yield quality of barley. Food Chemistry, 2013, 136, 1470-1477.	4.2	101
46	Succession of bacterial and fungal 4-chloro-2-methylphenoxyacetic acid degraders at the soil-litter interface. FEMS Microbiology Ecology, 2013, 86, 85-100.	1.3	20
47	The influence of the herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA) on the mineralization of litter-derived alkanes and the abundance of the alkane monooxygenase gene (alkB) in the detritusphere of Pisum sativum (L.). Biology and Fertility of Soils, 2012, 48, 933-940.	2.3	2
48	Land-use intensity modifies spatial distribution and function of soil microorganisms in grasslands. Pedobiologia, 2011, 54, 341-351.	0.5	29
49	Influence of land-use intensity on the spatial distribution of N-cycling microorganisms in grassland soils. FEMS Microbiology Ecology, 2011, 77, 95-106.	1.3	70
50	Small-scale Diversity and Succession of Fungi in the Detritusphere of Rye Residues. Microbial Ecology, 2010, 59, 130-140.	1.4	65
51	Regulation of bacterial and fungal MCPA degradation at the soil–litter interface. Soil Biology and Biochemistry, 2010, 42, 1879-1887.	4.2	42
52	Microbial biomass and enzyme activities under reduced nitrogen deposition in a spruce forest soil. Applied Soil Ecology, 2009, 43, 11-21.	2.1	73
53	Dynamics of litter carbon turnover and microbial abundance in a rye detritusphere. Soil Biology and Biochemistry, 2008, 40, 1306-1321.	4.2	145
54	Micro-scale modelling of carbon turnover driven by microbial succession at a biogeochemical interface. Soil Biology and Biochemistry, 2008, 40, 864-878.	4.2	75

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55	Soilâ \in carbon preservation through habitat constraints and biological limitations on decomposer activity. Journal of Plant Nutrition and Soil Science, 2008, 171, 27-35.	1.1	156
56	Endogeic earthworms alter carbon translocation by fungi at the soil–litter interface. Soil Biology and Biochemistry, 2007, 39, 2854-2864.	4.2	53
57	Rhizosphere bacteria affected by transgenic potatoes with antibacterial activities compared with the effects of soil, wild-type potatoes, vegetation stage and pathogen exposure. FEMS Microbiology Ecology, 2006, 56, 219-235.	1.3	143
58	Mechanisms of solute transport affect small-scale abundance and function of soil microorganisms in the detritusphere. European Journal of Soil Science, 2006, 57, 583-595.	1.8	112
59	Micro-scale distribution of microorganisms and microbial enzyme activities in a soil with long-term organic amendment. European Journal of Soil Science, 2003, 54, 715-724.	1.8	115
60	Nitrogen Cycle Enzymes. Soil Science Society of America Book Series, 0, , 211-245.	0.3	19