Bettina Eichler-LÃ¶bermann

List of Publications by Year
in descending order

44 papers	1,390 citations	361045 20 h-index	344852 36 g-index
45 all docs	45 docs citations	45 times ranked	1512 citing authors

#	Article	IF	Citations
1	Unexploited potential of some biotechnological techniques for biofertilizer production and formulation. Applied Microbiology and Biotechnology, 2015, 99, 4983-4996.	1.7	143
2	Challenges of Smallholder Farming in Ethiopia and Opportunities by Adopting Climate-Smart Agriculture. Agriculture (Switzerland), 2021, 11, 192.	1.4	96
3	Biomass ashes and their phosphorus fertilizing effect on different crops. Nutrient Cycling in Agroecosystems, 2010, 87, 471-482.	1.1	94
4	Phosphorus stocks and speciation in soil profiles of a long-term fertilizer experiment: Evidence from sequential fractionation, P K-edge XANES, and 31P NMR spectroscopy. Geoderma, 2018, 316, 115-126.	2.3	87
5	Handling the phosphorus paradox in agriculture and natural ecosystems: Scarcity, necessity, and burden of P. Ambio, 2018, 47, 3-19.	2.8	64
6	Stress-tolerant P-solubilizing microorganisms. Applied Microbiology and Biotechnology, 2012, 95, 851-859.	1.7	63
7	Codigested dairy slurry as a phosphorus and nitrogen source for Zea mays L. and Amaranthus cruentus L.. Journal of Plant Nutrition and Soil Science, 2011, 174, 908-915.	1.1	62
8	Phosphorus availability and soil microbial activity in a 3 year field experiment amended with digested dairy slurry. Biomass and Bioenergy, 2014, 70, 429-439.	2.9	59
9	Effect of organic, inorganic, and combined organic and inorganic P fertilization on plant P uptake and soil P pools. Journal of Plant Nutrition and Soil Science, 2007, 170, 623-628.	1.1	55
10	Effect of Catch Cropping on Phosphorus Bioavailability in Comparison to Organic and Inorganic Fertilization. Journal of Plant Nutrition, 2008, 31, 659-676.	0.9	55
11	Phosphorus application with recycled products from municipal waste water to different crop species. Ecological Engineering, 2015, 83, 466-475.	1.6	54
12	Soil test phosphorus as affected by phosphorus budgets in two long-term field experiments in Germany. Field Crops Research, 2018, 218, 158-170.	2.3	54
13	Organic and inorganic phosphorus forms in soil as affected by long-term application of organic amendments. Nutrient Cycling in Agroecosystems, 2014, 100, 245-255.	1.1	53
14	Phosphorus distribution and availability in untreated and mechanically separated biogas digestates. Scientia Agricola, 2016, 73, 9-17.	0.6	53
15	Biogas digestates affect crop P uptake and soil microbial community composition. Science of the Total Environment, 2016, 542, 1144-1154.	3.9	46
16	Re-evaluation of the yield response to phosphorus fertilization based on meta-analyses of long-term field experiments. Ambio, 2018, 47, 50-61.	2.8	42
17	Interactive effects of plant growthâ€“promoting rhizobacteria and organic fertilization on P nutrition of Zea mays L. and Brassica napus L.. Journal of Plant Nutrition and Soil Science, 2011, 174, 602-613.	1.1	35
18	Production of a potential liquid plant bio-stimulant by immobilized Piriformospora indica in repeated-batch fermentation process. AMB Express, 2017, 7, 106.	1.4	26

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19	Long-term negative phosphorus budgets in organic crop rotations deplete plant-available phosphorus from soil. Agronomy for Sustainable Development, 2017, 37, 1.	2.2	22
20	Animal Bone Char Solubilization with Itaconic Acid Produced by Free and Immobilized Aspergillus terreus Grown on Glycerol-Based Medium. Applied Biochemistry and Biotechnology, 2012, 168, 1311-1318.	1.4	21
21	Thresholds of target phosphorus fertility classes in European fertilizer recommendations in relation to critical soil test phosphorus values derived from the analysis of 55 European long-term field experiments. Agriculture, Ecosystems and Environment, 2022, 332, 107926.	2.5	21
22	Recycled Products from Municipal Wastewater: Composition and Effects on Phosphorus Mobility in a Sandy Soil. Journal of Environmental Quality, 2017, 46, 443-451.	1.0	17
23	Phosphorus Fertilizing Effects of Biomass Ashes. , 2011, , 17-31.		17
24	Improvement of Soil Phosphorus Availability by Green Fertilization with Catch Crops. Communications in Soil Science and Plant Analysis, 2009, 40, 70-81.	0.6	14
25	Soil Phosphorus Pools as Affected by Application of Poultry Litter Ash in Combination with Catch Crop Cultivation. Communications in Soil Science and Plant Analysis, 2010, 41, 1098-1111.	0.6	14
26	Aspegillus terreus: From Soil to Industry and Back. Microorganisms, 2020, 8, 1655.	1.6	11
27	Organic and Inorganic P Sources Interacting with Applied Rhizosphere Bacteria and Their Effects on Growth and P Supply of Maize. Communications in Soil Science and Plant Analysis, 2013, 44, 3205-3215.	0.6	10
28	Effect of triple superphosphate and biowaste compost on mycorrhizal colonization and enzymatic P mobilization under maize in a longâ€term field experiment. Journal of Plant Nutrition and Soil Science, 2019, 182, 167-174.	1.1	10
29	An inoculum-dependent culturing strategy (IDC) for the cultivation of environmental microbiomes and the isolation of novel endophytic Actinobacteria. Journal of Antibiotics, 2020, 73, 66-71.	1.0	10
30	Mixed cropping of maize or sorghum with legumes as affected by long-term phosphorus management. Field Crops Research, 2021, 265, 108120.	2.3	10
31	Inoculation with Native Bradyrhizobia Strains Improved Growth of Cowpea Plants Cultivated on a Saline Soil. Communications in Soil Science and Plant Analysis, 2016, 47, 2218-2224.	0.6	8
32	Combination of Compost and Mineral Fertilizers as an Option for Enhancing Maize (Zea mays L.) Yields and Mitigating Greenhouse Gas Emissions from a Nitisol in Ethiopia. Agronomy, 2021, 11, 2097.	1.3	8
33	Animal Bones Char Solubilization by Gel-EntrappedYarrowia lipolyticaon Glycerol-Based Media. Scientific World Journal, The, 2012, 2012, 1-5.	0.8	7
34	Combining global sensitivity analysis and multiobjective optimisation to estimate soil hydraulic properties and representations of various sole and mixed crops for the agro-hydrological SWAP model. Environmental Earth Sciences, 2017, 76, 1.	1.3	7
35	Long-term phosphorus supply with undigested and digested slurries and their agronomic effects under field conditions. Biomass and Bioenergy, 2020, 139, 105665.	2.9	7
36	Impact of Organic Amendments on the Suppression of Fusarium Wilt. Soil Biology, 2015, , 353-362.	0.6	7

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37	Combined effects of biochar and fertilizer application on maize production in dependence on the cultivation method in a sub-humid climate. Communications in Soil Science and Plant Analysis, 2018, 49, 2905-2917.	0.6	6
38	Mixed Cropping as Affected by Phosphorus and Water Supply. Agronomy, 2020, 10, 1506.	1.3	5
39	Biodiesel by-products and P-solubilizing microorganisms. Reviews in Environmental Science and Biotechnology, 2016, 15, 627-638.	3.9	4
40	Root-System Architectures of Two Cuban Rice Cultivars with Salt Stress at Early Development Stages. Plants, 2021, 10, 1194.	1.6	4
41	Impact of the Legume Catch Crop Serradella on Subsequent Growth and P Mobilization under Barley in Different Fertilization Treatments. Agronomy, 2021, 11, 2437.	1.3	3
42	Management Options for an Efficient Utilization of Phosphorus in Agroecosystems. , 2016, , 179-193.		2
43	Oat (Avena sativa L.) supplemented with fenugreek (Trigonella foenum-graecum L.) as a potential alternative for teff [Eragrostis tef (Zucc.) Trotter] for human nutrition in Ethiopia. Communications in Soil Science and Plant Analysis, 2020, 51, 2846-2857.	0.6	1
44	Fertilizer Management Strategy to Reduce Global Warming Potential and Improve Soil Fertility in a Nitisol in Southwestern Ethiopia. , 0, , .		1