Potential of three microbial bio-effectors to promote maize growth and nutrient acquisition from alternative phosphorous fertilizers in contrasting soils

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#	Paper	IF	Citations
40	Plant growth promoting bacteria and humic substances: crop promotion and mechanisms of action. *Chemical and Biological Technologies in Agriculture*, **2017**, 4,	4.4	50
39	Densely rooted rhizosphere hotspots induced around subsurface NH4 +-fertilizer depots: a home for soil PGPMs?. *Chemical and Biological Technologies in Agriculture*, **2017**, 4,	4.4	8
38	Possible benefits and challenges associated with production of chickpea in inland South Africa. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2018**, 68, 479-488	1.1	4
37	Biofortification of common bean as a complementary approach to addressing zinc deficiency in South Africans. *Acta Agriculturae Scandinavica - Section B Soil and Plant Science*, **2018**, 68, 575-584	1.1	6
36	Effects of microbial bioeffectors and P amendements on P forms in a maize cropped soil as evaluated by 31P NMR spectroscopy. *Plant and Soil*, **2018**, 427, 87-104	4.2	9
35	An alternative to mineral phosphorus fertilizers: The combined effects of Trichoderma harzianum and compost on Zea mays, as revealed by 1H NMR and GC-MS metabolomics. *PLoS ONE*, **2018**, 13, e0209664	3.7	33
34	Soil Type-Dependent Interactions of P-Solubilizing Microorganisms with Organic and Inorganic Fertilizers Mediate Plant Growth Promotion in Tomato. *Agronomy*, **2018**, 8, 213	3.6	18
33	Phosphorus bioavailability of sewage sludge-based recycled fertilizers in an organically managed field experiment. *Journal of Plant Nutrition and Soil Science*, **2018**, 181, 760-767	2.3	4
32	Effects of Penicillium bilaii on maize growth are mediated by available phosphorus. *Plant and Soil*, **2018**, 431, 159-173	4.2	12
31	Improved Phosphorus Recycling in Organic Farming: Navigating Between Constraints. *Advances in Agronomy*, **2018**, 159-237	7.7	55
30	Effects of Bacillus amyloliquefaciens and different phosphorus sources on Maize plants as revealed by NMR and GC-MS based metabolomics. *Plant and Soil*, **2018**, 429, 437-450	4.2	26
29	Enhanced tomato plant growth in soil under reduced P supply through microbial inoculants and microbiome shifts. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	12
28	Integrated Use of Humic Acid and Plant Growth Promoting Rhizobacteria to Ensure Higher Potato Productivity in Sustainable Agriculture. *Sustainability*, **2019**, 11, 3417	3.6	28
27	The role of N form supply for PGPM-host plant interactions in maize. *Journal of Plant Nutrition and Soil Science*, **2019**, 182, 908-920	2.3	11
26	Maize Inoculation with Microbial Consortia: Contrasting Effects on Rhizosphere Activities, Nutrient Acquisition and Early Growth in Different Soils. *Microorganisms*, **2019**, 7,	4.9	13
25	Microbial Consortia versus Single-Strain Inoculants: An Advantage in PGPM-Assisted Tomato Production?. *Agronomy*, **2019**, 9, 105	3.6	56
24	The Form of N Supply Determines Plant Growth Promotion by P-Solubilizing Microorganisms in Maize. *Microorganisms*, **2019**, 7,	4.9	27

23	Improved phosphorus fertilisation efficiency of wood ash by fungal strains Penicillium sp. PK112 and Trichoderma harzianum OMG08 on acidic soil. *Applied Soil Ecology*, **2020**, 147, 103360	5	7
22	Minimum fertilizer for maize cultivation in suboptimal agroecosystem. *IOP Conference Series: Earth and Environmental Science*, **2020**, 484, 012119	0.3	
21	Is It Possible to Replace Part of the Mineral Nitrogen Dose in Maize for Grain by Using Growth Activators and Plant Growth-Promoting Rhizobacteria?. *Agronomy*, **2020**, 10, 1647	3.6	7
20	Acquisition of rock phosphate by combined application of ammonium fertilizers and Bacillus amyloliquefaciens FZB42 in maize as affected by soil pH. *Journal of Applied Microbiology*, **2020**, 129, 947-957	4.7	3
19	The Integration of Bio and Organic Fertilizers Improve Plant Growth, Grain Yield, Quality and Metabolism of Hybrid Maize (Zea mays L.). *Agronomy*, **2020**, 10, 319	3.6	49
18	Phosphorus-solubilizing Trichoderma spp. from Amazon soils improve soybean plant growth. *Scientific Reports*, **2020**, 10, 2858	4.9	45
17	Efficacy of Trichoderma asperellum TC01 against anthracnose and growth promotion of Camellia sinensis seedlings. *Biological Control*, **2020**, 143, 104205	3.8	9
16	Phosphate-solubilising microorganisms for improved crop productivity: a critical assessment. *New Phytologist*, **2021**, 229, 1268-1277	9.8	29
15	Identification of Beneficial Microbial Consortia and Bioactive Compounds with Potential as Plant Biostimulants for a Sustainable Agriculture. *Microorganisms*, **2021**, 9,	4.9	9
14	Cooperation among phosphate-solubilizing bacteria, humic acids and arbuscular mycorrhizal fungi induces soil microbiome shifts and enhances plant nutrient uptake. *Chemical and Biological Technologies in Agriculture*, **2021**, 8,	4.4	5
13	Halotolerant Microbial Consortia for Sustainable Mitigation of Salinity Stress, Growth Promotion, and Mineral Uptake in Tomato Plants and Soil Nutrient Enrichment. *Sustainability*, **2021**, 13, 8369	3.6	17
12	Manure management and soil biodiversity: Towards more sustainable food systems in the EU. *Agricultural Systems*, **2021**, 194, 103251	6.1	10
11	Improving the efficiency and effectiveness of global phosphorus use: focus on root and rhizosphere levels in the agronomic system. *Frontiers of Agricultural Science and Engineering*, **2019**, 6, 357	1.7	9
10	PGPR-Induced Growth Stimulation and Nutrient Acquisition in Maize: Do Root Hairs Matter?. *Scientia Agriculturae Bohemica*, **2018**, 49, 164-172	0.5	10
9	Synergistic Effects of a Root-endophytic Trichoderma Fungus and Bacillus on Early Root Colonization and Defence Activation against Verticillium longisporum in Rapeseed.. *Molecular Plant-Microbe Interactions*, **2022**,	3.6	3
8	Phosphorus Fertilizers from Sewage Sludge Ash and Animal Blood as an Example of Biobased Environment-Friendly Agrochemicals: Findings from Field Experiments.. *Molecules*, **2022**, 27,	4.8	0
7	Full Issue PDF.. *Molecular Plant-Microbe Interactions*, **2022**, 35, 368-438	3.6	
6	Combination of humic biostimulants with a microbial inoculum improves lettuce productivity, nutrient uptake, and primary and secondary metabolism.		0

5	Biostimulants as Regulators of Stress Metabolites to Enhance Drought and Salinity Stress Tolerance in Plants. **2022**, 265-294	0
4	Impact of microbial consortia on organic maize in a temperate climate varies with environment but not with fertilization. **2023**, 144, 126743	0
3	Phosphate Solubilizing and Phytate Degrading Streptomyces Isolates Stimulate the Growth and P Accumulation of Maize (Zea mays) Fertilized with Different Phosphorus Sources. 1-12	0
2	Biotic and abiotic effects of soil organic matter on the phytoavailable phosphorus in soils: a review. **2023**, 10,	0
1	P-fertiliser and rhizobial inoculation increased the concentration of mineral nutrients in the rhizosphere of two chickpea genotypes. **2023**, 73, 94-101	0