

Ehsan Tavakkoli

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,698
citations

304743

22
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

3872
citing authors

#	ARTICLE	IF	CITATIONS
1	High concentrations of Na ⁺ and Cl ⁻ ions in soil solution have simultaneous detrimental effects on growth of faba bean under salinity stress. <i>Journal of Experimental Botany</i> , 2010, 61, 4449-4459.	4.8	423
2	Additive effects of Na ⁺ and Cl ⁻ ions on barley growth under salinity stress. <i>Journal of Experimental Botany</i> , 2011, 62, 2189-2203.	4.8	379
3	Biochar built soil carbon over a decade by stabilizing rhizodeposits. <i>Nature Climate Change</i> , 2017, 7, 371-376.	18.8	232
4	Fate of Zinc Oxide Nanoparticles during Anaerobic Digestion of Wastewater and Post-Treatment Processing of Sewage Sludge. <i>Environmental Science & Technology</i> , 2012, 46, 9089-9096.	10.0	193
5	Nanostructured Carbon Nitrides for CO ₂ Capture and Conversion. <i>Advanced Materials</i> , 2020, 32, e1904635.	21.0	188
6	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , 2013, 176, 193-197.	7.5	184
7	The response of barley to salinity stress differs between hydroponic and soil systems. <i>Functional Plant Biology</i> , 2010, 37, 621.	2.1	131
8	Exchangeable cations and clay dispersion: net dispersive charge, a new concept for dispersive soil. <i>European Journal of Soil Science</i> , 2016, 67, 659-665.	3.9	78
9	Graphene oxide-Fe(III) composite containing phosphate ³⁻ A novel slow release fertilizer for improved agriculture management. <i>Journal of Cleaner Production</i> , 2018, 185, 97-104.	9.3	73
10	A comparison of hydroponic and soil-based screening methods to identify salt tolerance in the field in barley. <i>Journal of Experimental Botany</i> , 2012, 63, 3853-3867.	4.8	67
11	Silicon nutrition of rice is affected by soil pH, weathering and silicon fertilisation. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 437-446.	1.9	62
12	The effect of cation ⁻ anion interactions on soil pH and solubility of organic carbon. <i>European Journal of Soil Science</i> , 2015, 66, 1054-1062.	3.9	60
13	Nutrient supply enhanced wheat residue-carbon mineralization, microbial growth, and microbial carbon-use efficiency when residues were supplied at high rate in contrasting soils. <i>Soil Biology and Biochemistry</i> , 2018, 126, 168-178.	8.8	57
14	Nutrient stoichiometry and labile carbon content of organic amendments control microbial biomass and carbon-use efficiency in a poorly structured sodic-subsoil. <i>Biology and Fertility of Soils</i> , 2020, 56, 219-233.	4.3	52
15	Priming, stabilization and temperature sensitivity of native SOC is controlled by microbial responses and physicochemical properties of biochar. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108139.	8.8	48
16	Nanoporous materials for pesticide formulation and delivery in the agricultural sector. <i>Journal of Controlled Release</i> , 2022, 343, 187-206.	9.9	46
17	Effects of nitrogen-enriched biochar on rice growth and yield, iron dynamics, and soil carbon storage and emissions: A tool to improve sustainable rice cultivation. <i>Environmental Pollution</i> , 2021, 287, 117565.	7.5	36
18	Balancing nutrient stoichiometry facilitates the fate of wheat residue ⁻ carbon in physically defined soil organic matter fractions. <i>Geoderma</i> , 2019, 354, 113883.	5.1	35

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19	Short-term effects of organo-mineral enriched biochar fertiliser on ginger yield and nutrient cycling. <i>Journal of Soils and Sediments</i> , 2019, 19, 668-682.	3.0	33
20	Priming of soil organic carbon induced by sugarcane residues and its biochar control the source of nitrogen for plant uptake: A dual ¹³ C and ¹⁵ N isotope three-source-partitioning study. <i>Soil Biology and Biochemistry</i> , 2020, 146, 107792.	8.8	31
21	Comparing genotypic variation in faba bean (<i>Vicia faba</i> L.) in response to salinity in hydroponic and field experiments. <i>Field Crops Research</i> , 2012, 127, 99-108.	5.1	30
22	Interactive carbon priming, microbial response and biochar persistence in a Vertisol with varied inputs of biochar and labile organic matter. <i>European Journal of Soil Science</i> , 2019, 70, 960-974.	3.9	26
23	Balanced nutrient stoichiometry of organic amendments enhances carbon priming in a poorly structured sodic subsoil. <i>Soil Biology and Biochemistry</i> , 2020, 145, 107800.	8.8	26
24	The accumulation of rhizodeposits in organo-mineral fractions promoted biochar-induced negative priming of native soil organic carbon in Ferralsol. <i>Soil Biology and Biochemistry</i> , 2018, 118, 91-96.	8.8	23
25	Effects of Chemical Amendments on the Lability and Speciation of Metals in Anaerobically Digested Biosolids. <i>Environmental Science & Technology</i> , 2013, 47, 11157-11165.	10.0	20
26	Field applications of gypsum reduce pH and improve soil C in highly alkaline soils in southern Australia's dryland cropping region. <i>Soil Use and Management</i> , 2022, 38, 466-477.	4.9	18
27	A survey of total and dissolved organic carbon in alkaline soils of southern Australia. <i>Soil Research</i> , 2017, 55, 617.	1.1	15
28	Engineered Phosphate Fertilizers with Dual-Release Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5512-5524.	3.7	15
29	Additive effects of organic and inorganic amendments can significantly improve structural stability of a sodic dispersive subsoil. <i>Geoderma</i> , 2021, 404, 115281.	5.1	13
30	Preferential ammonium: nitrate ratio of blueberry is regulated by nitrogen transport and reduction systems. <i>Scientia Horticulturae</i> , 2021, 288, 110345.	3.6	12
31	Copper nanoparticles decorated N-doped mesoporous carbon with bimodal pores for selective gas separation and energy storage applications. <i>Chemical Engineering Journal</i> , 2022, 431, 134056.	12.7	12
32	Interaction of Silicon and Phosphorus Mitigate Manganese Toxicity in Rice in a Highly Weathered Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 503-513.	1.4	11
33	Assessing plant-available glyphosate in contrasting soils by diffusive gradient in thin-films technique (DGT). <i>Science of the Total Environment</i> , 2019, 646, 735-744.	8.0	11
34	A radio-isotopic dilution technique for functional characterisation of the associations between inorganic contaminants and water-dispersible naturally occurring soil colloids. <i>Environmental Chemistry</i> , 2013, 10, 341.	1.5	9
35	Ameliorating dense clay subsoils to increase the yield of rain-fed crops. <i>Advances in Agronomy</i> , 2021, 165, 249-300.	5.2	8
36	Unraveling microbiomes and functions associated with strategic tillage, stubble, and fertilizer management. <i>Agriculture, Ecosystems and Environment</i> , 2022, 323, 107686.	5.3	8

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37	Optimisation of phosphate loading on graphene oxide-Fe(ⁱⁱⁱ) composites – possibilities for engineering slow release fertilisers. <i>New Journal of Chemistry</i> , 2019, 43, 8580-8589.	2.8	6
38	Commentary: Bread Wheat With High Salinity and Sodicity Tolerance. <i>Frontiers in Plant Science</i> , 2020, 11, 1194.	3.6	6
39	Ameliorating alkaline dispersive subsoils with organic amendments: Are productivity responses due to nutrition or improved soil structure?. <i>Plant and Soil</i> , 2022, 480, 227-244.	3.7	6
40	Characterising the exchangeability of phenanthrene associated with naturally occurring soil colloids using an isotopic dilution technique. <i>Environmental Pollution</i> , 2015, 199, 244-252.	7.5	5
41	Carbon Capture and Conversion: Nanostructured Carbon Nitrides for CO ₂ Capture and Conversion (<i>Adv. Mater.</i> 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070142.	21.0	4
42	Sulfur and nitrogen responses by barley and wheat on a sandy soil in a semi-arid environment. <i>Crop and Pasture Science</i> , 2020, 71, 894.	1.5	2
43	Management zone delineation based on soil properties measured during the reproductive stage of rice in the field. <i>Land Degradation and Development</i> , 2021, 32, 3106-3121.	3.9	2
44	Disentangling carbon stabilization in a Calcisol subsoil amended with iron oxyhydroxides: A dual- ¹³ C isotope approach. <i>Soil Biology and Biochemistry</i> , 2022, , 108711.	8.8	2