

# Mehran Rezaei Rashti

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

877  
citations

566801

15  
h-index

500791

28  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fertiliser-induced nitrous oxide emissions from vegetable production in the world and the regulating factors: A review. <i>Atmospheric Environment</i> , 2015, 112, 225-233.	1.9	93
2	Aged acidic biochar increases nitrogen retention and decreases ammonia volatilization in alkaline bauxite residue sand. <i>Ecological Engineering</i> , 2017, 98, 157-165.	1.6	90
3	Stoichiometric ratio of dissolved organic carbon to nitrate regulates nitrous oxide emission from the biochar-amended soils. <i>Science of the Total Environment</i> , 2017, 576, 559-571.	3.9	64
4	Spatial and temporal dynamics of nutrients in riparian soils after nine years of operation of the Three Gorges Reservoir, China. <i>Science of the Total Environment</i> , 2019, 664, 841-850.	3.9	52
5	Application of Rice Husk Biochar for Achieving Sustainable Agriculture and Environment. <i>Rice Science</i> , 2021, 28, 325-343.	1.7	47
6	Effects of biochar application on soil nitrogen transformation, microbial functional genes, enzyme activity, and plant nitrogen uptake: A meta-analysis of field studies. <i>GCB Bioenergy</i> , 2021, 13, 1859-1873.	2.5	43
7	Cadmium desorption behaviour in selected sub-tropical soils: Effects of soil properties. <i>Journal of Geochemical Exploration</i> , 2014, 144, 230-236.	1.5	36
8	The stoichiometric legacy of fire regime regulates the roles of microorganisms and invertebrates in decomposition. <i>Ecology</i> , 2019, 100, e02732.	1.5	35
9	Assessment of N <sub>2</sub> O emissions from a fertilised vegetable cropping soil under different plant residue management strategies using 15 N tracing techniques. <i>Science of the Total Environment</i> , 2017, 598, 479-487.	3.9	34
10	Subsoil application of compost improved sugarcane yield through enhanced supply and cycling of soil labile organic carbon and nitrogen in an acidic soil at tropical Australia. <i>Soil and Tillage Research</i> , 2018, 180, 73-81.	2.6	33
11	Linking feedstock and application rate of biochars to N <sub>2</sub> O emission in a sandy loam soil: Potential mechanisms. <i>Geoderma</i> , 2019, 337, 880-892.	2.3	31
12	Soil organic matter formation is controlled by the chemistry and bioavailability of organic carbon inputs across different land uses. <i>Science of the Total Environment</i> , 2021, 770, 145307.	3.9	25
13	Nitrogen use efficiency of bread wheat: Effects of nitrogen rate and time of application. <i>Journal of Soil Science and Plant Nutrition</i> , 2012, , 0-0.	1.7	23
14	A novel approach of combining isotopic and geochemical signatures to differentiate the sources of sediments and particulate nutrients from different land uses. <i>Science of the Total Environment</i> , 2019, 655, 129-140.	3.9	23
15	Bioavailability and eco-toxicity of heavy metals in chars produced from municipal sewage sludge decreased during pyrolysis and hydrothermal carbonization. <i>Ecological Engineering</i> , 2021, 162, 106173.	1.6	23
16	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. <i>GCB Bioenergy</i> , 2018, 10, 930-945.	2.5	22
17	The Role of CEC and pH in Cd Retention from Soils of North of Iran. <i>Soil and Sediment Contamination</i> , 2011, 20, 908-920.	1.1	14
18	Linking chemical and biochemical composition of plant materials to their effects on N <sub>2</sub> O emissions from a vegetable soil. <i>Soil Biology and Biochemistry</i> , 2016, 103, 502-511.	4.2	14

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19	Rhizosphere management by biochar and leaching improved plant performance in fresh bauxite residue sand. <i>Journal of Cleaner Production</i> , 2019, 219, 66-74.	4.6	14
20	Biochar amendment and water stress alter rhizosphere carbon and nitrogen budgets in bauxite-processing residue sand under rehabilitation. <i>Journal of Environmental Management</i> , 2019, 230, 446-455.	3.8	14
21	Strategies to mitigate greenhouse gas emissions in intensively managed vegetable cropping systems in subtropical Australia. <i>Soil Research</i> , 2015, 53, 475.	0.6	13
22	Greenhouse gas emissions from stormwater bioretention basins. <i>Ecological Engineering</i> , 2021, 159, 106120.	1.6	11
23	Soil organic matter and geochemical characteristics shape microbial community composition and structure across different land uses in an Australian wet tropical catchment. <i>Land Degradation and Development</i> , 2022, 33, 817-831.	1.8	11
24	Stoichiometric control on riparian wetland carbon and nutrient dynamics under different land uses. <i>Science of the Total Environment</i> , 2019, 697, 134127.	3.9	10
25	Energetic efficiency and temperature sensitivity of soil heterotrophic respiration vary with decadal-scale fire history in a wet sclerophyll forest. <i>Soil Biology and Biochemistry</i> , 2019, 134, 62-71.	4.2	10
26	Liming improves soil microbial growth, but trash blanket placement increases labile carbon and nitrogen availability in a sugarcane soil of subtropical Australia. <i>Soil Research</i> , 2018, 56, 235.	0.6	9
27	The multi-element stoichiometry of wet eucalypt forest is transformed by recent, frequent fire. <i>Plant and Soil</i> , 2020, 447, 447-461.	1.8	9
28	Soil greenhouse gas fluxes from tropical coastal wetlands and alternative agricultural land uses. <i>Biogeosciences</i> , 2021, 18, 5085-5096.	1.3	9
29	Effects of soil properties on phosphorus fractions in subtropical soils of Iran. <i>Journal of Soil Science and Plant Nutrition</i> , 2013, , 0-0.	1.7	8
30	Role of oxygen-containing functional groups in forest fire-generated and pyrolytic chars for immobilization of copper and nickel. <i>Environmental Pollution</i> , 2017, 220, 946-954.	3.7	8
31	Aged biochar alters nitrogen pathways in bauxite-processing residue sand: Environmental impact and biogeochemical mechanisms. <i>Environmental Pollution</i> , 2019, 247, 438-446.	3.7	8
32	Long-Term Fire Regime Modifies Carbon and Nutrient Dynamics in Decomposing <i>Eucalyptus pilularis</i> Leaf Litter. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	8
33	Organic waste from sugar mills as a potential soil ameliorant to minimise herbicide runoff to the Great Barrier Reef. <i>Science of the Total Environment</i> , 2020, 713, 136640.	3.9	8
34	Tracing the sources of sediment and associated particulate nitrogen from different land uses in the Johnstone River catchment, Wet Tropics, north-eastern Australia. <i>Marine Pollution Bulletin</i> , 2020, 157, 111344.	2.3	6
35	High-frequency fire alters soil and plant chemistry but does not lead to nitrogen-limited growth of <i>Eucalyptus pilularis</i> seedlings. <i>Plant and Soil</i> , 2018, 432, 191-205.	1.8	5
36	Influence of storage and drying methods on invertebrate elemental and isotopic measurements. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 2231-2237.	0.6	4

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37	Variation entry of sediment, organic matter and different forms of phosphorus and nitrogen in flood and normal events in the Anzali wetland. <i>Journal of Water and Climate Change</i> , 2022, 13, 434-450.	1.2	4
38	Responses of soil nutrients and microbial activity to the mill-mud application in a compaction-affected sugarcane field. <i>Soil Research</i> , 2022, 60, 385-398.	0.6	3
39	Effects of Biochar on Pulse C and N Cycling After a Short-term Drought: a Laboratory Study. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2815-2825.	1.7	2
40	The stoichiometric signature of high-frequency fire in forest floor food webs. <i>Ecological Monographs</i> , 2021, 91, e01477.	2.4	1