Mehran Rezaei Rashti

List of Publications by Year
in descending order

40	877	516710 16	501196 28
papers	citations	h-index	g-index

40	40	40	1086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fertiliser-induced nitrous oxide emissions from vegetable production in the world and the regulating factors: A review. Atmospheric Environment, 2015, 112, 225-233.	4.1	93
2	Aged acidic biochar increases nitrogen retention and decreases ammonia volatilization in alkaline bauxite residue sand. Ecological Engineering, 2017, 98, 157-165.	3.6	90
3	Stoichiometric ratio of dissolved organic carbon to nitrate regulates nitrous oxide emission from the biochar-amended soils. Science of the Total Environment, 2017, 576, 559-571.	8.0	64
4	Spatial and temporal dynamics of nutrients in riparian soils after nine years of operation of the Three Gorges Reservoir, China. Science of the Total Environment, 2019, 664, 841-850.	8.0	52
5	Application of Rice Husk Biochar for Achieving Sustainable Agriculture and Environment. Rice Science, 2021, 28, 325-343.	3.9	47
6	Effects of biochar application on soil nitrogen transformation, microbial functional genes, enzyme activity, and plant nitrogen uptake: A metaâ€analysis of field studies. GCB Bioenergy, 2021, 13, 1859-1873.	5.6	43
7	Cadmium desorption behaviour in selected sub-tropical soils: Effects of soil properties. Journal of Geochemical Exploration, 2014, 144, 230-236.	3.2	36
8	The stoichiometric legacy of fire regime regulates the roles of microâ€organisms and invertebrates in decomposition. Ecology, 2019, 100, e02732.	3.2	35
9	Assessment of N 2 O emissions from a fertilised vegetable cropping soil under different plant residue management strategies using 15 N tracing techniques. Science of the Total Environment, 2017, 598, 479-487.	8.0	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. Soil and Tillage Research, 2018, 180, 73-81.	5.6	33
11	Linking feedstock and application rate of biochars to N2O emission in a sandy loam soil: Potential mechanisms. Geoderma, 2019, 337, 880-892.	5.1	31
12	Soil organic matter formation is controlled by the chemistry and bioavailability of organic carbon inputs across different land uses. Science of the Total Environment, 2021, 770, 145307.	8.0	25
13	Nitrogen use efficiency of bread wheat: Effects of nitrogen rate and time of application. Journal of Soil Science and Plant Nutrition, 2012, , 0-0.	3.4	23
14	A novel approach of combining isotopic and geochemical signatures to differentiate the sources of sediments and particulate nutrients from different land uses. Science of the Total Environment, 2019, 655, 129-140.	8.0	23
15	Bioavailability and eco-toxicity of heavy metals in chars produced from municipal sewage sludge decreased during pyrolysis and hydrothermal carbonization. Ecological Engineering, 2021, 162, 106173.	3.6	23
16	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. GCB Bioenergy, 2018, 10, 930-945.	5.6	22
17	The Role of CEC and pH in Cd Retention from Soils of North of Iran. Soil and Sediment Contamination, 2011, 20, 908-920.	1.9	14
18	Linking chemical and biochemical composition of plant materials to their effects on N2O emissions from a vegetable soil. Soil Biology and Biochemistry, 2016, 103, 502-511.	8.8	14

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19	Rhizosphere management by biochar and leaching improved plant performance in fresh bauxite residue sand. Journal of Cleaner Production, 2019, 219, 66-74.	9.3	14
20	Biochar amendment and water stress alter rhizosphere carbon and nitrogen budgets in bauxite-processing residue sand under rehabilitation. Journal of Environmental Management, 2019, 230, 446-455.	7.8	14
21	Strategies to mitigate greenhouse gas emissions in intensively managed vegetable cropping systems in subtropical Australia. Soil Research, 2015, 53, 475.	1.1	13
22	Greenhouse gas emissions from stormwater bioretention basins. Ecological Engineering, 2021, 159, 106120.	3.6	11
23	Soil organic matter and geochemical characteristics shape microbial community composition and structure across different land uses in an Australian wet tropical catchment. Land Degradation and Development, 2022, 33, 817-831.	3.9	11
24	Stoichiometric control on riparian wetland carbon and nutrient dynamics under different land uses. Science of the Total Environment, 2019, 697, 134127.	8.0	10
25	Energetic efficiency and temperature sensitivity of soil heterotrophic respiration vary with decadal-scale fire history in a wet sclerophyll forest. Soil Biology and Biochemistry, 2019, 134, 62-71.	8.8	10
26	Liming improves soil microbial growth, but trash blanket placement increases labile carbon and nitrogen availability in a sugarcane soil of subtropical Australia. Soil Research, 2018, 56, 235.	1.1	9
27	The multi-element stoichiometry of wet eucalypt forest is transformed by recent, frequent fire. Plant and Soil, 2020, 447, 447-461.	3.7	9
28	Soil greenhouse gas fluxes from tropical coastal wetlands and alternative agricultural land uses. Biogeosciences, 2021, 18, 5085-5096.	3.3	9
29	Effects of soil properties on phosphorus fractions in subtropical soils of Iran. Journal of Soil Science and Plant Nutrition, 2013, , 0-0.	3.4	8
30	Role of oxygen-containing functional groups in forest fire-generated and pyrolytic chars for immobilization of copper and nickel. Environmental Pollution, 2017, 220, 946-954.	7.5	8
31	Aged biochar alters nitrogen pathways in bauxite-processing residue sand: Environmental impact and biogeochemical mechanisms. Environmental Pollution, 2019, 247, 438-446.	7.5	8
32	Long-Term Fire Regime Modifies Carbon and Nutrient Dynamics in Decomposing Eucalyptus pilularis Leaf Litter. Frontiers in Forests and Global Change, 2020, 3, .	2.3	8
33	Organic waste from sugar mills as a potential soil ameliorant to minimise herbicide runoff to the Great Barrier Reef. Science of the Total Environment, 2020, 713, 136640.	8.0	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. Marine Pollution Bulletin, 2020, 157, 111344.	5.0	6
35	High-frequency fire alters soil and plant chemistry but does not lead to nitrogen-limited growth of Eucalyptus pilularis seedlings. Plant and Soil, 2018, 432, 191-205.	3.7	5
36	Influence of storage and drying methods on invertebrate elemental and isotopic measurements. Communications in Soil Science and Plant Analysis, 2018, 49, 2231-2237.	1.4	4

#	Article	IF	Citations
37	Variation entry of sediment, organic matter and different forms of phosphorus and nitrogen in flood and normal events in the Anzali wetland. Journal of Water and Climate Change, 2022, 13, 434-450.	2.9	4
38	Responses of soil nutrients and microbial activity to the mill-mud application in a compaction-affected sugarcane field. Soil Research, 2022, 60, 385-398.	1.1	3
39	Effects of Biochar on Pulse C and N Cycling After a Short-term Drought: a Laboratory Study. Journal of Soil Science and Plant Nutrition, 2021, 21, 2815-2825.	3.4	2
40	The stoichiometric signature of highâ€frequency fire in forest floor food webs. Ecological Monographs, 2021, 91, e01477.	5.4	1