Adnan Mustafa

List of Publications by Year
in descending order

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77 papers	2,680 citations	201674 27 h-index	223800 46 g-index
80 all docs	80 docs citations	80 times ranked	1619 citing authors

#	Article	IF	Citations
1	Stability of soil organic carbon under long-term fertilization: Results from 13C NMR analysis and laboratory incubation. Environmental Research, 2022, 205, 112476.	7.5	25
2	Effect of long-term fertilization on greenhouse gas emissions and carbon footprints in northwest China: A field scale investigation using wheat-maize-fallow rotation cycles. Journal of Cleaner Production, 2022, 332, 130075.	9.3	25
3	Exopolysaccharide and Siderophore Production Ability of Zn Solubilizing Bacterial Strains Improve Growth, Physiology and Antioxidant Status of Maize and Wheat. Polish Journal of Environmental Studies, 2022, 31, 1223-1236.	1.2	4
4	Cattle Manure Fermented with Biochar and Humic Substances Improve the Crop Biomass, Microbiological Properties and Nutrient Status of Soil. Agronomy, 2022, 12, 368.	3.0	8
5	Effect of Consecutive Application of Phosphorus-Enriched Biochar with Different Levels of P on Growth Performance of Maize for Two Successive Growing Seasons. Sustainability, 2022, 14, 1987.	3.2	9
6	Manure Maturation with Biochar: Effects on Plant Biomass, Manure Quality and Soil Microbiological Characteristics. Agriculture (Switzerland), 2022, 12, 314.	3.1	6
7	Combined Use of Novel Endophytic and Rhizobacterial Strains Upregulates Antioxidant Enzyme Systems and Mineral Accumulation in Wheat. Agronomy, 2022, 12, 551.	3.0	8
8	Cadmium Phytotoxicity, Tolerance, and Advanced Remediation Approaches in Agricultural Soils; A Comprehensive Review. Frontiers in Plant Science, 2022, 13, 773815.	3.6	77
9	Mechanistic Impact of Zinc Deficiency in Human Development. Frontiers in Nutrition, 2022, 9, 717064.	3.7	29
10	Combined Effect of Animal Manures and Di-Ammonium Phosphate (DAP) on Growth, Physiology, Root Nodulation and Yield of Chickpea. Agronomy, 2022, 12, 674.	3.0	4
11	Deciphering the Potential Role of Symbiotic Plant Microbiome and Amino Acid Application on Growth Performance of Chickpea Under Field Conditions. Frontiers in Plant Science, 2022, 13, .	3.6	2
12	Comparison of Zimmermann and Six Fractionation Methods Aimed at Distinguishing Between Active, Slow, and Passive Pools of Soil Organic Matter. Journal of Soil Science and Plant Nutrition, 2022, 22, 3110-3117.	3.4	2
13	Physiological Responses and Phytoremediation Abilities of Cucumber (Cucumis sativus L.) under Cesium and Strontium Contaminated Soils. Agronomy, 2022, 12, 1311.	3.0	1
14	Deciphering the Effectiveness of Humic Substances and Biochar Modified Digestates on Soil Quality and Plant Biomass Accumulation. Agronomy, 2022, 12, 1587.	3.0	4
15	Performance of <scp> Zea mays </scp> L. cultivars in tannery polluted soils: Management of chromium phytotoxicity through the application of biochar and compost. Physiologia Plantarum, 2021, 173, 129-147.	5.2	8
16	Carbon, nitrogen, and phosphorus stoichiometry mediate sensitivity of carbon stabilization mechanisms along with surface layers of a Mollisol after long-term fertilization in Northeast China. Journal of Soils and Sediments, 2021, 21, 705-723.	3.0	28
17	Long-term fertilization affects functional soil organic carbon protection mechanisms in a profile of Chinese loess plateau soil. Chemosphere, 2021, 267, 128897.	8.2	18
18	Current and Emerging Adsorbent Technologies for Wastewater Treatment: Trends, Limitations, and Environmental Implications. Water (Switzerland), 2021, 13, 215.	2.7	100

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19	The Combined Effects of Gibberellic Acid and Rhizobium on Growth, Yield and Nutritional Status in Chickpea (Cicer arietinum L.). Agronomy, 2021, 11, 105.	3.0	33
20	Influence of Selenium on Growth, Physiology, and Antioxidant Responses in Maize Varies in a Dose-Dependent Manner. Journal of Food Quality, 2021, 2021, 1-9.	2.6	13
21	Processed animal manure improves morpho-physiological and biochemical characteristics of Brassica napus L. under nickel and salinity stress. Environmental Science and Pollution Research, 2021, 28, 45629-45645.	5.3	29
22	Assessing Yield Response and Relationship of Soil Boron Fractions with Its Accumulation in Sorghum and Cowpea under Boron Fertilization in Different Soil Series. Sustainability, 2021, 13, 4192.	3.2	3
23	Isolation and Characterization of Oil-Degrading Enterobacter sp. from Naturally Hydrocarbon-Contaminated Soils and Their Potential Use against the Bioremediation of Crude Oil. Applied Sciences (Switzerland), 2021, 11, 3504.	2.5	19
24	Biochar Mediated-Alleviation of Chromium Stress and Growth Improvement of Different Maize Cultivars in Tannery Polluted Soils. International Journal of Environmental Research and Public Health, 2021, 18, 4461.	2.6	35
25	Long-term fertilization alters chemical composition and stability of aggregate-associated organic carbon in a Chinese red soil: evidence from aggregate fractionation, C mineralization, and 13C NMR analyses. Journal of Soils and Sediments, 2021, 21, 2483-2496.	3.0	27
26	Deciphering the Potential of Bioactivated Rock Phosphate and Di-Ammonium Phosphate on Agronomic Performance, Nutritional Quality and Productivity of Wheat (Triticum aestivum L.). Agronomy, 2021, 11, 684.	3.0	5
27	Efficacy of Indole Acetic Acid and Exopolysaccharides-Producing BacillusÂsafensis Strain FN13 for Inducing Cd-Stress Tolerance and Plant Growth Promotion in Brassica juncea (L.). Applied Sciences (Switzerland), 2021, 11, 4160.	2.5	16
28	Variation in Growth, Physiology, Yield, and Quality of Wheat under the Application of Different Zinc Coated Formulations. Applied Sciences (Switzerland), 2021, 11, 4797.	2.5	9
29	Removal Mechanisms of Slag against Potentially Toxic Elements in Soil and Plants for Sustainable Agriculture Development: A Critical Review. Sustainability, 2021, 13, 5255.	3.2	21
30	Pollution characteristics and human health risk assessments of toxic metals and particle pollutants via soil and air using geoinformation in urbanized city of Pakistan. Environmental Science and Pollution Research, 2021, 28, 58206-58220.	5.3	9
31	Phosphate-lanthanum coated sewage sludge biochar improved the soil properties and growth of ryegrass in an alkaline soil. Ecotoxicology and Environmental Safety, 2021, 216, 112173.	6.0	21
32	Growth Responses, Physiological Alterations and Alleviation of Salinity Stress in Sunflower (Helianthus annuus L.) Amended with Gypsum and Composted Cow Dung. Sustainability, 2021, 13, 6792.	3.2	8
33	Phytotoxicity of petroleum hydrocarbons: Sources, impacts and remediation strategies. Environmental Research, 2021, 197, 111031.	7.5	71
34	Investigating connections between COVID-19 pandemic, air pollution and community interventions for Pakistan employing geoinformation technologies. Chemosphere, 2021, 272, 129809.	8.2	25
35	Insights into the Interactions among Roots, Rhizosphere, and Rhizobacteria for Improving Plant Growth and Tolerance to Abiotic Stresses: A Review. Cells, 2021, 10, 1551.	4.1	112
36	Soil microbial biomass and extracellular enzymeâ€“mediated mineralization potentials of carbon and nitrogen under long-term fertilization (>â€‰30Âyears) in a riceâ€“rice cropping system. Journal of Soils and Sediments, 2021, 21, 3789-3800.	3.0	19

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37	Long-term fertilization enhanced carbon mineralization and maize biomass through physical protection of organic carbon in fractions under continuous maize cropping. Applied Soil Ecology, 2021, 165, 103971.	4.3	46
38	Rhizosphere Bacteria in Plant Growth Promotion, Biocontrol, and Bioremediation of Contaminated Sites: A Comprehensive Review of Effects and Mechanisms. International Journal of Molecular Sciences, 2021, 22, 10529.	4.1	149
39	Comparative Effects of Bio-Wastes in Combination with Plant Growth-Promoting Bacteria on Growth and Productivity of Okra. Agronomy, 2021, 11, 2065.	3.0	6
40	Insights Into Manganese Solubilizing Bacillus spp. for Improving Plant Growth and Manganese Uptake in Maize. Frontiers in Plant Science, 2021, 12, 719504.	3.6	18
41	Clover Species Specific Influence on Microbial Abundance and Associated Enzyme Activities in Rhizosphere and Non-Rhizosphere Soils. Agronomy, 2021, 11, 2214.	3.0	6
42	Co-composted Biochar Enhances Growth, Physiological, and Phytostabilization Efficiency of Brassica napus and Reduces Associated Health Risks Under Chromium Stress. Frontiers in Plant Science, 2021, 12, 775785.	3.6	24
43	Subsurface-Applied Coated Nitrogen Fertilizer Enhanced Wheat Production by Improving Nutrient-Use Efficiency with Less Ammonia Volatilization. Agronomy, 2021, 11, 2396.	3.0	8
44	Co-Application of Biochar and Arbuscular mycorrhizal Fungi Improves Salinity Tolerance, Growth and Lipid Metabolism of Maize (Zea mays L.) in an Alkaline Soil. Plants, 2021, 10, 2490.	3.5	22
45	Impact of Biochar Application on Germination Behavior and Early Growth of Maize Seedlings: Insights from a Growth Room Experiment. Applied Sciences (Switzerland), 2021, 11, 11666.	2.5	23
46	Ameliorative Effects of Biochar on Rapeseed (Brassica napus L.) Growth and Heavy Metal Immobilization in Soil Irrigated with Untreated Wastewater. Journal of Plant Growth Regulation, 2020, 39, 266-281.	5.1	125
47	Burkholderia phytofirmans PsJN and tree twigs derived biochar together retrieved Pb-induced growth, physiological and biochemical disturbances by minimizing its uptake and translocation in mung bean (Vigna radiata L.). Journal of Environmental Management, 2020, 257, 109974.	7.8	46
48	Appraising growth, oxidative stress and copper phytoextraction potential of flax (Linum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (u Management, 2020, 257, 109994.	7.8	136
49	Polymer-Paraburkholderia phytofirmans PsJN Coated Diammonium Phosphate Enhanced Microbial Survival, Phosphorous Use Efficiency, and Production of Wheat. Agronomy, 2020, 10, 1344.	3.0	20
50	Evaluating the Contribution of Growth, Physiological, and Ionic Components Towards Salinity and Drought Stress Tolerance in Jatropha curcas. Plants, 2020, 9, 1574.	3.5	34
51	A Review on Practical Application and Potentials of Phytohormone-Producing Plant Growth-Promoting Rhizobacteria for Inducing Heavy Metal Tolerance in Crops. Sustainability, 2020, 12, 9056.	3.2	55
52	Biogeochemical transformation of greenhouse gas emissions from terrestrial to atmospheric environment and potential feedback to climate forcing. Environmental Science and Pollution Research, 2020, 27, 38513-38536.	5.3	63
53	Evaluating Biochar-Microbe Synergies for Improved Growth, Yield of Maize, and Post-Harvest Soil Characteristics in a Semi-Arid Climate. Agronomy, 2020, 10, 1055.	3.0	25
54	Mitigation of Nickel Toxicity and Growth Promotion in Sesame through the Application of a Bacterial Endophyte and Zeolite in Nickel Contaminated Soil. International Journal of Environmental Research and Public Health, 2020, 17, 8859.	2.6	36

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55	Large Scale Screening of Rhizospheric Allelopathic Bacteria and Their Potential for the Biocontrol of Wheat-Associated Weeds. Agronomy, 2020, 10, 1469.	3.0	11
56	Experimental Investigation of Chlorella vulgaris and Enterobacter sp. MN17 for Decolorization and Removal of Heavy Metals from Textile Wastewater. Water (Switzerland), 2020, 12, 3034.	2.7	46
57	Soil aggregation and soil aggregate stability regulate organic carbon and nitrogen storage in a red soil of southern China. Journal of Environmental Management, 2020, 270, 110894.	7.8	131
58	Unveiling the Potential of Novel Macrophytes for the Treatment of Tannery Effluent in Vertical Flow Pilot Constructed Wetlands. Water (Switzerland), 2020, 12, 549.	2.7	22
59	Variations in the profile distribution and protection mechanisms of organic carbon under long-term fertilization in a Chinese Mollisol. Science of the Total Environment, 2020, 723, 138181.	8.0	46
60	Application Potentials of Plant Growth Promoting Rhizobacteria and Fungi as an Alternative to Conventional Weed Control Methods. , 2020, , .		13
61	Alleviation of Salinity Induced Oxidative Stress in Chenopodium quinoa by Fe Biofortification and Biocharâ€"Endophyte Interaction. Agronomy, 2020, 10, 168.	3.0	19
62	Variations in Growth, Physiology, and Antioxidative Defense Responses of Two Tomato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Agronomy, 2020, 10, 159.	3.0	19
63	The Short-Term Effects of Mineral- and Plant-Derived Fulvic Acids on Some Selected Soil Properties: Improvement in the Growth, Yield, and Mineral Nutritional Status of Wheat (Triticum aestivum L.) under Soils of Contrasting Textures. Plants, 2020, 9, 205.	3.5	14
64	Combined application of biochar and sulfur regulated growth, physiological, antioxidant responses and Cr removal capacity of maize (Zea mays L.) in tannery polluted soils. Journal of Environmental Management, 2020, 259, 110051.	7.8	83
65	Cadmium mediated phytotoxic impacts in Brassica napus: Managing growth, physiological and oxidative disturbances through combined use of biochar and Enterobacter sp. MN17. Journal of Environmental Management, 2020, 265, 110522.	7.8	74
66	Enhancing Cadmium Tolerance and Pea Plant Health through Enterobacter sp. MN17 Inoculation Together with Biochar and Gravel Sand. Plants, 2020, 9, 530.	3.5	38
67	Nitrogen and Phosphorus Use Efficiency in Agroecosystems. , 2020, , 213-257.		17
68	Alleviation of Salinity-Induced Oxidative Stress, Improvement in Growth, Physiology and Mineral Nutrition of Canola (Brassica napus L.) through Calcium-Fortified Composted Animal Manure. Sustainability, 2020, 12, 846.	3.2	65
69	FOLIAR SULPHUR APPLICATION AND ITS TIMINGS IMPROVE WHEAT (TRITICUM AESTIVUM L.) PRODUCTIVITY IN SEMIARID CLIMATE. Applied Ecology and Environmental Research, 2020, 18, 3873-3885.	0.5	0
70	Appraising Endophyteâ€"Plant Symbiosis for Improved Growth, Nodulation, Nitrogen Fixation and Abiotic Stress Tolerance: An Experimental Investigation with Chickpea (Cicer arietinum L.). Agronomy, 2019, 9, 621.	3.0	34
71	Calcium-Enriched Animal Manure Alleviates the Adverse Effects of Salt Stress on Growth, Physiology and Nutrients Homeostasis of Zea mays L.. Plants, 2019, 8, 480.	3.5	41
72	Foliar application of micronutrients enhances crop stand, yield and the biofortification essential for human health of different wheat cultivars. Journal of Integrative Agriculture, 2019, 18, 1369-1378.	3.5	57

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73	Biochar alleviates Cd phytotoxicity by minimizing bioavailability and oxidative stress in pak choi (Brassica chinensis L.) cultivated in Cd-polluted soil. Journal of Environmental Management, 2019, 250, 109500.	7.8	152
74	Combined use of Enterobacter sp. MN17 and zeolite reverts the adverse effects of cadmium on growth, physiology and antioxidant activity of Brassica napus. PLoS ONE, 2019, 14, e0213016.	2.5	62
75	Measuring the Technical Efficiency of Certified Organic Rice Producing Farms in Yasothon Province: Northeast Thailand. Sustainability, 2019, 11, 6974.	3.2	15
76	Growth response of wheat and associated weeds to plant antagonistic rhizobacteria and fungi. Italian Journal of Agronomy, 2019, 14, 191-198.	1.0	13
77	The Good, the Bad, and the Ugly of Rhizosphere Microbiome. , 2017, , 253-290.		29