

Tarek Alshaal

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,588
citations

361045

20
h-index

329751

37
g-index

55
all docs

55
docs citations

55
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica nanoparticles boost growth and productivity of cucumber under water deficit and salinity stresses by balancing nutrients uptake. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 1-10.	2.8	157
2	Selenium and nano-selenium in plant nutrition. <i>Environmental Chemistry Letters</i> , 2016, 14, 123-147.	8.3	146
3	Selenium and nano-selenium in agroecosystems. <i>Environmental Chemistry Letters</i> , 2014, 12, 495-510.	8.3	108
4	Glycine betaine counters salinity stress by maintaining high K ⁺ /Na ⁺ ratio and antioxidant defense via limiting Na ⁺ uptake in common bean (<i>Phaseolus vulgaris</i> L.). <i>Ecotoxicology and Environmental Safety</i> , 2020, 200, 110732.	2.9	96
5	Engineered silica nanoparticles alleviate the detrimental effects of Na ⁺ stress on germination and growth of common bean (<i>Phaseolus vulgaris</i>). <i>Environmental Science and Pollution Research</i> , 2017, 24, 21917-21928.	2.7	89
6	Selenium in soils under climate change, implication for human health. <i>Environmental Chemistry Letters</i> , 2015, 13, 1-19.	8.3	77
7	Exogenous nanosilica improves germination and growth of cucumber by maintaining K ⁺ /Na ⁺ ratio under elevated Na ⁺ stress. <i>Plant Physiology and Biochemistry</i> , 2018, 125, 164-171.	2.8	77
8	Phytoremediation of bauxite-derived red mud by giant reed. <i>Environmental Chemistry Letters</i> , 2013, 11, 295-302.	8.3	60
9	Effect of some osmoregulators on photosynthesis, lipid peroxidation, antioxidative capacity, and productivity of barley (<i>Hordeum vulgare</i> L.) under water deficit stress. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30199-30211.	2.7	51
10	Nanoparticles, Soils, Plants and Sustainable Agriculture. <i>Sustainable Agriculture Reviews</i> , 2016, , 283-312.	0.6	50
11	Selenium fortification induces growth, antioxidant activity, yield and nutritional quality of lettuce in salt-affected soil using foliar and soil applications. <i>Plant and Soil</i> , 2017, 421, 245-258.	1.8	47
12	Uptake of nicotine from discarded cigarette butts – A so far unconsidered path of contamination of plant-derived commodities. <i>Environmental Pollution</i> , 2018, 238, 972-976.	3.7	47
13	Foliar application: from plant nutrition to biofortification. <i>Environment Biodiversity and Soil Security</i> , 2017, .	0.1	45
14	Nanofertilizers vs. Biofertilizers: New Insights. <i>Environment Biodiversity and Soil Security</i> , 2018, 2, 40-50.	0.1	38
15	Phytoaccumulation potentials of two biotechnologically propagated ecotypes of <i>Arundo donax</i> in copper-contaminated synthetic wastewater. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7773-7780.	2.7	29
16	Giant reed for selenium phytoremediation under changing climate. <i>Environmental Chemistry Letters</i> , 2015, 13, 359-380.	8.3	29
17	Selenium and its Role in Higher Plants. <i>Environmental Chemistry for A Sustainable World</i> , 2015, , 235-296.	0.3	29
18	Plant Nano-nutrition: Perspectives and Challenges. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 129-161.	0.3	28

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19	The Integrated Amendment of Sodic-Saline Soils Using Biochar and Plant Growth-Promoting Rhizobacteria Enhances Maize (<i>Zea mays</i> L.) Resilience to Water Salinity. <i>Plants</i> , 2021, 10, 1960.	1.6	27
20	Seasonal and Spatial Distribution of Soil Trace Elements around Kitchener Drain in the Northern Nile Delta, Egypt. <i>Agriculture (Switzerland)</i> , 2019, 9, 152.	1.4	23
21	Application of magnetic field improves growth, yield and fruit quality of tomato irrigated alternatively by fresh and agricultural drainage water. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 248-254.	2.9	21
22	Nanoremediation for Sustainable Crop Production. <i>Sustainable Agriculture Reviews</i> , 2017, , 335-363.	0.6	19
23	Copper Uptake Efficiency and Its Distribution Within Bioenergy Grass Giant Reed. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 95, 452-458.	1.3	18
24	Biochemical traits of <i>Bacillus subtilis</i> MF497446: Its implications on the development of cowpea under cadmium stress and ensuring food safety. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 384-395.	2.9	18
25	Restoring Soil Ecosystems and Biomass Production of <i>Arundo donax</i> L. under Microbial Communities-Depleted Soil. <i>Bioenergy Research</i> , 2014, 7, 268-278.	2.2	17
26	The Rhizosphere and Plant Nutrition Under Climate Change. , 2017, , 275-308.		17
27	Plant Nutrients and Their Roles Under Saline Soil Conditions. , 2018, , 297-324.		16
28	Sulfur promotes biocontrol of purple blotch disease via <i>Trichoderma</i> spp. and enhances the growth, yield and quality of onion. <i>Applied Soil Ecology</i> , 2019, 134, 15-24.	2.1	16
29	Chemical Traits of Fermented Alfalfa Brown Juice: Its Implications on Physiological, Biochemical, Anatomical, and Growth Parameters of <i>Celosia</i> . <i>Agronomy</i> , 2020, 10, 247.	1.3	16
30	Nanoparticles: a Novel Approach for Sustainable Agro-productivity. <i>Environment Biodiversity and Soil Security</i> , 2019, 3, 30-40.	0.1	16
31	Giant Reed (<i>Arundo donax</i> L.): A Green Technology for Clean Environment. , 2015, , 3-20.		15
32	Nanomaterials and plant abiotic stress in agroecosystems. <i>Environment Biodiversity and Soil Security</i> , 2018, 2, 50-55.	0.1	14
33	Quinoa Response to Application of Phosphogypsum and Plant Growth-Promoting Rhizobacteria under Water Stress Associated with Salt-Affected Soil. <i>Plants</i> , 2022, 11, 872.	1.6	13
34	Biological Aspects of Selenium and Silicon Nanoparticles in the Terrestrial Environments. , 2018, , 235-264.		12
35	Identification of Bioactive Phytochemicals in Leaf Protein Concentrate of Jerusalem Artichoke (<i>Helianthus tuberosus</i> L.). <i>Plants</i> , 2020, 9, 889.	1.6	12
36	Selenate tolerance and selenium hyperaccumulation in the monocot giant reed (<i>Arundo donax</i>), a biomass crop plant with phytoremediation potential. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31368-31380.	2.7	11

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37	Would fertilization history render the soil microbial communities and their activities more resistant to rainfall fluctuations?. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110803.	2.9	10
38	Refining high-quality leaf protein and valuable co-products from green biomass of Jerusalem artichoke (<i>Helianthus tuberosus</i> L.) for sustainable protein supply. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2149-2164.	2.9	10
39	Uptake Dynamics of Ionic and Elemental Selenium Forms and Their Metabolism in Multiple-Harvested Alfalfa (<i>Medicago sativa</i> L.). <i>Plants</i> , 2021, 10, 1277.	1.6	10
40	Fermented Alfalfa Brown Juice Significantly Stimulates the Growth and Development of Sweet Basil (<i>Ocimum basilicum</i> L.) <i>Plants</i> . <i>Agronomy</i> , 2020, 10, 657.	1.3	8
41	Nanoparticle-Associated Phytotoxicity and Abiotic Stress Under Agroecosystems. , 2018, , 241-268.		7
42	Environmental Nanoremediation under Changing Climate. <i>Environment Biodiversity and Soil Security</i> , 2017, 1, 190-200.	0.1	7
43	Enhancing seed germination and seedlings development of common bean (<i>Phaseolus vulgaris</i>) by SiO ₂ nanoparticles. <i>Egyptian Journal of Soil Science</i> , 2017, .	0.1	6
44	Selenium Phytoremediation by Giant Reed. <i>Environmental Chemistry for A Sustainable World</i> , 2015, , 133-198.	0.3	5
45	Raw and Fermented Alfalfa Brown Juice Induces Changes in the Germination and Development of French Marigold (<i>Tagetes patula</i> L.) <i>Plants</i> . <i>Plants</i> , 2021, 10, 1076.	1.6	5
46	Soil Health and Its Biology. <i>World Soils Book Series</i> , 2019, , 175-185.	0.1	3
47	Selenium and nano-selenium biofortified sprouts using micro-farm systems. , 2015, , 189-190.		3
48	Soils and Humans. <i>World Soils Book Series</i> , 2019, , 201-213.	0.1	2
49	Soils and Human Creation in the Holy Quran: from Point of View of Soil Science. <i>Environment Biodiversity and Soil Security</i> , 2019, .	0.1	2
50	Silicon- and nanosilicon-mediated drought and waterlogging stress tolerance in plants. , 2022, , 121-152.		2
51	Future Soil Issues. <i>World Soils Book Series</i> , 2019, , 215-224.	0.1	1
52	Soil Research History. <i>World Soils Book Series</i> , 2019, , 13-31.	0.1	1
53	Soil Fertility and Its Security. <i>World Soils Book Series</i> , 2019, , 137-157.	0.1	1
54	Nanobiotechnology for Plants. <i>Environment Biodiversity and Soil Security</i> , 2019, .	0.1	0