Esmat Ali

List of Publications by Year in descending order

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114 papers	2,658 citations	218677 26 h-index	254184 43 g-index
116 all docs	116 docs citations	116 times ranked	1641 citing authors

#	Article	IF	Citations
1	Evaluation of proline functions in saline conditions. Phytochemistry, 2017, 140, 52-68.	2.9	229
2	Foliar Application of Zinc Oxide Nanoparticles Promotes Drought Stress Tolerance in Eggplant (Solanum melongena L.). Plants, 2021, 10, 421.	3.5	153
3	A vital role of chitosan nanoparticles in improvisation the drought stress tolerance in Catharanthus roseus (L.) through biochemical and gene expression modulation. Plant Physiology and Biochemistry, 2021, 161, 166-175.	5.8	100
4	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. Journal of Hazardous Materials, 2022, 425, 127906.	12.4	83
5	A consortium of rhizobacterial strains and biochemical growth elicitors improve cold and drought stress tolerance in rice (Oryza sativa L.). Plant Biology, 2016, 18, 471-483.	3.8	81
6	Modeling the combined impacts of deficit irrigation, rising temperature and compost application on wheat yield and water productivity. Agricultural Water Management, 2021, 244, 106626.	5.6	78
7	Impact of drought on growth, photosynthesis, osmotic adjustment, and cell wall elasticity in Damask rose. Plant Physiology and Biochemistry, 2020, 150, 133-139.	5.8	76
8	Influence of Nano Silicon and Nano Selenium on Root Characters, Growth, Ion Selectivity, Yield, and Yield Components of Rice (Oryza sativa L.) under Salinity Conditions. Plants, 2021, 10, 1657.	3.5	67
9	Exogenous Gibberellic Acid or Dilute Bee Honey Boosts Drought Stress Tolerance in Vicia faba by Rebalancing Osmoprotectants, Antioxidants, Nutrients, and Phytohormones. Plants, 2021, 10, 748.	3.5	65
10	Exogenously Used 24-Epibrassinolide Promotes Drought Tolerance in Maize Hybrids by Improving Plant and Water Productivity in an Arid Environment. Plants, 2021, 10, 354.	3.5	60
11	Improving the growth, yield and volatile oil content of Pelargonium graveolens L. Herit by foliar application with moringa leaf extract through motivating physiological and biochemical parameters. South African Journal of Botany, 2018, 119, 383-389.	2.5	57
12	Chitosan nanoparticles effectively combat salinity stress by enhancing antioxidant activity and alkaloid biosynthesis in Catharanthus roseus (L.) G. Don. Plant Physiology and Biochemistry, 2021, 162, 291-300.	5.8	54
13	Improvement of postharvest quality of cut rose cv. â€˜First Redâ€™ by biologically synthesized silver nanoparticles. Scientia Horticulturae, 2014, 179, 340-348.	3.6	51
14	Application of biostimulants promotes growth and productivity by fortifying the antioxidant machinery and suppressing oxidative stress in faba bean under various abiotic stresses. Scientia Horticulturae, 2021, 288, 110340.	3.6	49
15	Herbal plants- and rice straw-derived biochars reduced metal mobilization in fishpond sediments and improved their potential as fertilizers. Science of the Total Environment, 2022, 826, 154043.	8.0	49
16	Exogenous application of polyamines alleviates water stress-induced oxidative stress of Rosa damascena Miller var. trigintipetala Dieck. South African Journal of Botany, 2018, 116, 96-102.	2.5	45
17	Biochar and compost enhance soil quality and growth of roselle (Hibiscus sabdariffa L.) under saline conditions. Scientific Reports, 2021, 11, 8739.	3.3	45
18	Brevundimonas diminuta isolated from mines polluted soil immobilized cadmium (Cd2+) and zinc (Zn2+) through calcium carbonate precipitation: Microscopic and spectroscopic investigations. Science of the Total Environment, 2022, 813, 152668.	8.0	44

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19	Foliar Nourishment with Nano-Selenium Dioxide Promotes Physiology, Biochemistry, Antioxidant Defenses, and Salt Tolerance in Phaseolus vulgaris. Plants, 2021, 10, 1189.	3.5	41
20	Glycine-betaine induced salinity tolerance in maize by regulating the physiological attributes, antioxidant defense system and ionic homeostasis. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12248.	1.1	39
21	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. Journal of Hazardous Materials, 2021, 416, 125738.	12.4	37
22	Effects of sheep bone biochar on soil quality, maize growth, and fractionation and phytoavailability of Cd and Zn in a mining-contaminated soil. Chemosphere, 2021, 282, 131016.	8.2	36
23	Glycinebetaine in saline conditions: an assessment of the current state of knowledge. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	35
24	Protective effects of 1-methylcyclopropene and salicylic acid on senescence regulation of gladiolus cut spikes. Scientia Horticulturae, 2014, 179, 146-152.	3.6	34
25	Modeling deficit irrigation-based evapotranspiration optimizes wheat yield and water productivity in arid regions. Agricultural Water Management, 2021, 256, 107122.	5.6	34
26	Enhancing antioxidant defense system of mung bean with a salicylic acid exogenous application to mitigate cadmium toxicity. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12303.	1.1	33
27	Mechanisms of Chitosan Nanoparticles in the Regulation of Cold Stress Resistance in Banana Plants. Nanomaterials, 2021, 11, 2670.	4.1	32
28	Wheat and maize-derived water-washed and unwashed biochar improved the nutrients phytoavailability and the grain and straw yield of rice and wheat: A field trial for sustainable management of paddy soils. Journal of Environmental Management, 2021, 297, 113250.	7.8	29
29	Induced anti-oxidation efficiency and others by salt stress in Rosa damascena Miller. Scientia Horticulturae, 2020, 274, 109681.	3.6	26
30	Biochar blended humate and vermicompost enhanced immobilization of heavy metals, improved wheat productivity, and minimized human health risks in different contaminated environments. Journal of Environmental Chemical Engineering, 2021, 9, 105700.	6.7	26
31	Endophytic fungi associated with soybean plants and their antagonistic activity against Rhizoctonia solani. Egyptian Journal of Biological Pest Control, 2021, 31, .	1.8	25
32	Development of a Spatial Model for Soil Quality Assessment under Arid and Semi-Arid Conditions. Sustainability, 2021, 13, 2893.	3.2	23
33	Shelf-life extension of sweet basil leaves by edible coating with thyme volatile oil encapsulated chitosan nanoparticles. International Journal of Biological Macromolecules, 2021, 177, 517-525.	7.5	23
34	High Nitrogen Fertilization Modulates Morpho-Physiological Responses, Yield, and Water Productivity of Lowland Rice under Deficit Irrigation. Agronomy, 2021, 11, 1291.	3.0	23
35	Effect of Biochar on CO2 Sequestration and Productivity of Pearl Millet Plants Grown in Saline Sodic Soils. Journal of Soil Science and Plant Nutrition, 2021, 21, 897-907.	3.4	22
36	Optimizing sowing window, cultivar choice, and plant density to boost maize yield under RCP8.5 climate scenario of CMIP5. International Journal of Biometeorology, 2022, 66, 971-985.	3.0	22

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37	Impact of different water regimes based on class-A pan on growth, yield and oil content of Coriandrum sativum L. plant. Journal of the Saudi Society of Agricultural Sciences, 2014, 13, 155-161.	1.9	21
38	Effect of Manure and Compost on the Phytostabilization Potential of Heavy Metals by the Halophytic Plant Wavy-Leaved Saltbush. Plants, 2021, 10, 2176.	3.5	21
39	Mitigation of salt-stress effects by moringa leaf extract or salicylic acid through motivating antioxidant machinery in damask rose. Canadian Journal of Plant Science, 2021, 101, 157-165.	0.9	20
40	Development of fast and high-efficiency sponge-gourd fibers (Luffa cylindrica)/hydroxyapatite composites for removal of lead and methylene blue. Arabian Journal of Chemistry, 2021, 14, 103281.	4.9	20
41	Influence of Bio-fertilizers on Growth, Yield and Anthocyanin Content of Hibiscus sabdariffa L. Plant under Taif Region Conditions. Annual Research & Review in Biology, 2017, 17, 1-15.	0.4	20
42	Graded Moisture Deficit Effect on Secondary Metabolites, Antioxidant, and Inhibitory Enzyme Activities in Leaf Extracts of Rosa damascena Mill. var. trigentipetala. Horticulturae, 2022, 8, 177.	2.8	19
43	Impacts of Gum Arabic and Polyvinylpyrrolidone (PVP) with Salicylic Acid on Peach Fruit (Prunus) Tj ETQq1 1 0.784314 rgBT /Overlock	3.8	19
44	Effect of Potassium Solubilizing Bacteria and Humic Acid on Faba Bean (Vicia faba L.) Plants Grown on Sandy Loam Soils. Journal of Soil Science and Plant Nutrition, 2021, 21, 791-800.	3.4	18
45	Salinity Effects on Gene Expression, Morphological, and Physio-Biochemical Responses of Stevia rebaudiana Bertoni In Vitro. Plants, 2021, 10, 820.	3.5	18
46	Phosphate-Solubilizing Bacteria as a Panacea to Alleviate Stress Effects of High Soil CaCO3 Content in Phaseolus vulgaris with Special Reference to P-Releasing Enzymes. Sustainability, 2021, 13, 7063.	3.2	17
47	Corn Cob-Derived Biochar Improves the Growth of Saline-Irrigated Quinoa in Different Orders of Egyptian Soils. Horticulturae, 2021, 7, 221.	2.8	17
48	Appraisal of water quality and ecological sensitivity with reference to riverfront development along the River Gomti, India. Applied Water Science, 2022, 12, 1.	5.6	17
49	Impact of Level of Nitrogen Fertilization and Critical Period for Weed Control in Peanut (Arachis) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	16
50	Characterization and sensitivity of Botrytis cinerea to benzimidazole and succinate dehydrogenase inhibitors fungicides, and illustration of the resistance profile. Australasian Plant Pathology, 2021, 50, 589.	1.0	16
51	Rebalance the Nutritional Status and the Productivity of High CaCO3-Stressed Sweet Potato Plants by Foliar Nourishment with Zinc Oxide Nanoparticles and Ascorbic Acid. Agronomy, 2021, 11, 1443.	3.0	16
52	Evaluation of the Phytochemical and Pharmacological Potential of Taifâ€™s Rose (Rosa damascena Mill) Tj ETQq0 0 0 rgBT /Overlock 10	2.4	16
53	Green nanosilica enhanced the salt-tolerance defenses and yield of Williams banana: A field trial for using saline water in low fertile arid soil. Environmental and Experimental Botany, 2022, 197, 104843.	4.2	16
54	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations. Environmental Pollution, 2022, 299, 118877.	7.5	15

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55	Revitalizing Fertility of Nutrient-Deficient Virgin Sandy Soil Using Leguminous Biocompost Boosts Phaseolus vulgaris Performance. Plants, 2021, 10, 1637.	3.5	14
56	Induction of Catharanthus roseus Secondary Metabolites When Calotropis procera Was Used as Bio-Stimulant. Plants, 2021, 10, 1623.	3.5	14
57	Appraisal of COVID-19 lockdown and unlocking effects on the air quality of North India. Environmental Research, 2022, 204, 112107.	7.5	14
58	Alternative Control of Tomato Wilt Using the Aqueous Extract of Calotropis procera. Horticulturae, 2022, 8, 197.	2.8	14
59	Efficacy of indigenous entomopathogenic fungus, Beauveria bassiana (Balsamo) Vuillemin, isolates against the rose aphid, Macrosiphum rosae L. (Hemiptera: Aphididae) in rose production. Egyptian Journal of Biological Pest Control, 2019, 29, .	1.8	13
60	Thyme oil treatment controls bacterial wilt disease symptoms by inducing antioxidant enzyme activity in Solanum tuberosum. Journal of Plant Pathology, 2021, 103, 563-572.	1.2	13
61	Integrated Application of K and Zn as an Avenue to Promote Sugar Beet Yield, Industrial Sugar Quality, and K-Use Efficiency in a Salty Semi-Arid Agro-Ecosystem. Agronomy, 2021, 11, 780.	3.0	13
62	Mechanisms of Nitric Oxide in the Regulation of Chilling Stress Tolerance in Camellia sinensis. Horticulturae, 2021, 7, 410.	2.8	13
63	Recycling of sugar crop disposal to boost the adaptation of canola (Brassica napus L.) to abiotic stress through different climate zones. Journal of Environmental Management, 2021, 281, 111881.	7.8	12
64	A New Method to Recycle Dairy Waste for the Nutrition of Wheat Plants. Agronomy, 2021, 11, 840.	3.0	12
65	Early Sowing Combined with Adequate Potassium and Sulfur Fertilization: Promoting Beta vulgaris (L.) Yield, Yield Quality, and K- and S-Use Efficiency in a Dry Saline Environment. Agronomy, 2021, 11, 806.	3.0	12
66	Addition of walnut shells biochar to alkaline arable soil caused contradictory effects on CO2 and N2O emissions, nutrients availability, and enzymes activity. Chemosphere, 2022, 293, 133476.	8.2	12
67	The Efficacies of 1-Methylcyclopropene and Chitosan Nanoparticles in Preserving the Postharvest Quality of Damask Rose and Their Underlying Biochemical and Physiological Mechanisms. Biology, 2022, 11, 242.	2.8	12
68	Foliar Nourishment with Different Zinc-Containing Forms Effectively Sustains Carrot Performance in Zinc-Deficient Soil. Agronomy, 2021, 11, 1853.	3.0	11
69	Response in Physiological Traits and Antioxidant Capacity of Two Cotton Cultivars under Water Limitations. Agronomy, 2022, 12, 803.	3.0	11
70	Isolation, identification, and molecular diversity of indigenous isolates of Beauveria bassiana from Taif region, Saudi Arabia. Egyptian Journal of Biological Pest Control, 2018, 28, .	1.8	10
71	Suitability of five plant species extracts for their compatibility with indigenous Beauveria bassiana against Aphis gossypii Glov. (Hemiptera: Aphididae). Egyptian Journal of Biological Pest Control, 2021, 31, .	1.8	10
72	Effect of phosphorus-loaded biochar and nitrogen-fertilization on release kinetic of toxic heavy metals and tomato growth. International Journal of Phytoremediation, 2022, 24, 156-165.	3.1	9

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73	Organic Amendment and Mulching Enhanced the Growth and Fruit Quality of Squash Plants (Cucurbita pepo L.) Grown on Silty Loam Soils. Horticulturae, 2021, 7, 269.	2.8	9
74	Irrigation and biochar effects on pearl millet and kinetics of ammonia volatilization from saline sandy soils. Journal of Soil Science and Plant Nutrition, 2022, 22, 1546-1558.	3.4	9
75	Ginger Extract and Fulvic Acid Foliar Applications as Novel Practical Approaches to Improve the Growth and Productivity of Damask Rose. Plants, 2022, 11, 412.	3.5	9
76	Foliar Supplementation of Clove Fruit Extract and Salicylic Acid Maintains the Performance and Antioxidant Defense System of Solanum tuberosum L. under Deficient Irrigation Regimes. Horticulturae, 2021, 7, 435.	2.8	8
77	Water Stress Alleviation of Roselle Plant by Silicon Treatment Through Some Physiological and Biochemical Responses. Annual Research & Review in Biology, 2017, 21, 1-17.	0.4	7
78	Jasmonic Acid and EDTA-Enhanced Cd and Pb Phytoextraction by the Halophytic Plants Quail Bush [Atriplex lentiformis (Torr.) S. Wats]. Journal of Soil Science and Plant Nutrition, 2022, 22, 1434-1445.	3.4	7
79	Chemical Characterization of Taif Rose (Rosa damascena Mill var. trigentipetala) Waste Methanolic Extract and Its Hepatoprotective and Antioxidant Effects against Cadmium Chloride (CdCl2)-Induced Hepatotoxicity and Potential Anticancer Activities against Liver Cancer Cells (HepG2). Crystals, 2022, 12, 460.	2.2	7
80	Effect of Amount of Irrigation and Type of P Fertilizer on Potato Yield and NH3 Volatilization from Alkaline Sandy Soils. Journal of Soil Science and Plant Nutrition, 2021, 21, 1565-1576.	3.4	6
81	Developing new lines of Japonica rice for higher quality and yield under arid conditions. PeerJ, 2021, 9, e11592.	2.0	6
82	Compost Enhances Forage Yield and Quality of River Saltbush in Arid Conditions. Agriculture (Switzerland), 2021, 11, 595.	3.1	6
83	Soil microbial biomass, CO2 and NH3 emission and nitrogen use efficiency in a sandy soil amended with recycled dairy products. Environmental Technology and Innovation, 2021, 23, 101546.	6.1	6
84	Modeling of Phosphorus Nutrition to Obtain Maximum Yield, High P Use Efficiency and Low P-Loss Risk for Wheat Grown in Sandy Calcareous Soils. Agronomy, 2021, 11, 1950.	3.0	6
85	Impact of plant growth regulators spray on fruit quantity and quality of pepper (Capsicum annuum L.) cultivars grown under plastic tunnels. Saudi Journal of Biological Sciences, 2022, 29, 2291-2298.	3.8	6
86	Effect of Two Urea Forms and Organic Fertilizer Derived from Expired Milk Products on Dynamic of NH3 Emissions and Growth of Williams Banana. Agronomy, 2021, 11, 1113.	3.0	5
87	Development of a Five-Parameter Model to Facilitate the Estimation of Additive, Dominance, and Epistatic Effects with a Mediating Using Bootstrapping in Advanced Generations of Wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	5
88	Nitrogen and Compost Enhanced the Phytoextraction Potential of Cd and Pb from Contaminated Soils by Quail Bush [Atriplex lentiformis (Torr.) S.Wats]. Journal of Soil Science and Plant Nutrition, 2022, 22, 177-185.	3.4	5
89	Association of saponin concentration, molecular markers, and biochemical factors with enhancing resistance to alfalfa seedling damping-off. Saudi Journal of Biological Sciences, 2022, 29, 2148-2162.	3.8	5
90	A Pivotal Role of Chitosan Nanoparticles in Enhancing the Essential Oil Productivity and Antioxidant Capacity in Matricaria chamomilla L.. Horticulturae, 2021, 7, 574.	2.8	5

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91	The impact of nitrogen concentrations on production and quality of food and feed supplements from three cyanobacteria and potential application in biotechnology. Biocatalysis and Agricultural Biotechnology, 2020, 24, 101533.	3.1	4
92	Callus induction and regeneration in sugarcane under drought stress. Saudi Journal of Biological Sciences, 2021, 28, 7432-7442.	3.8	4
93	Water deficit induced physiological and amino acid responses in some rice varieties using NMRâ€metabolic analysis. Agronomy Journal, 2021, 113, 4690-4704.	1.8	4
94	FOLIAR APPLICATION OF POTASSIUM AND ZINC ENHANCES THE PRODUCTIVITY AND VOLATILE OIL CONTENT OF DAMASK ROSE (Rosa damascena Miller var. trigintipetala Dieck). Acta Scientiarum Polonorum, Hortorum Cultus, 2021, 20, 101-114.	0.6	4
95	Cattle manure and bio-nourishing royal jelly as alternatives to chemical fertilizers: Potential for sustainable production of organic Hibiscus sabdariffa L.. Journal of Applied Research on Medicinal and Aromatic Plants, 2021, 25, 100334.	1.5	4
96	Involvement of Ethylene Synthetic Inhibitors in Regulating the Senescence of Cut Carnations through Membrane Integrity Maintenance. Journal of Horticultural Research, 2020, 28, 39-48.	0.9	4
97	Optimization of Biomethane Production via Fermentation of Chicken Manure Using Marine Sediment: A Modeling Approach Using Response Surface Methodology. International Journal of Environmental Research and Public Health, 2021, 18, 11988.	2.6	4
98	Plant Growth Stimulating Bacteria and Filter Mud Cake Enhance Soil Quality and Productivity of Mango (Mangifera indica L.). Journal of Soil Science and Plant Nutrition, 2022, 22, 3068-3080.	3.4	4
99	The Exogenous Application of Micro-Nutrient Elements and Amino Acids Improved the Yield, Nutritional Status and Quality of Mango in Arid Regions. Plants, 2021, 10, 2057.	3.5	3
100	Effect of jasmonic acid on alkaloids content and salinity tolerance of Catharanthus roseus based on morpho-physiological evaluation. South African Journal of Botany, 2021, 141, 440-446.	2.5	3
101	Effect of Proline on Growth and Nutrient Uptake of Simmondsia chinensis (Link) Schneider under Salinity Stress. Pakistan Journal of Biological Sciences, 2019, 22, 412-418.	0.5	3
102	Zinc Nutrition and its Activated Roles on Growth, Inflorescences Attributes and Some Physiological Parameters of Tagetes erecta L. Plants. Pakistan Journal of Biological Sciences, 2019, 23, 35-44.	0.5	3
103	Impact of Glyphosate Herbicide and Salicylic Acid on Seed Germination, Cell Structure and Physiological Activities of Faba Bean (Vicia faba L.) Plant. Annual Research & Review in Biology, 2017, 17, 1-15.	0.4	3
104	Integrative Seed and Leaf Treatment with Ascorbic Acid Extends the Planting Period by Improving Tolerance to Late Sowing Influences in Parsley. Horticulturae, 2022, 8, 334.	2.8	3
105	Molecular Identification of Rosa x damascena Growing in Taif Region (Saudi Arabia). International Journal of Plant Biology, 2016, 7, 6307.	2.6	2
106	Protective Effects of Taif Rosewater Against Testicular Impairment Induced By Lead Intoxication In Rats. Andrologia, 2021, 53, e14045.	2.1	2
107	Effect of the Pruning System and P-Fertilizer on Growth and Productivity of Rosa damascena mill. var.. Egyptian Journal of Botany, 2021, .	0.2	2
108	Application of Three Cyanobacteria in Foods and Feeds Biotechnology: Phosphorus Affects. Pakistan Journal of Biological Sciences, 2019, 23, 55-62.	0.5	2

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109	Impact of chitosan nanoparticles edible coating on shelfâ€life extension and postharvest quality of coriander herb. Journal of Food Processing and Preservation, 2022, 46, .	2.0	2
110	Seasonal potential of Pistia stratiotes in nutrient removal to eliminate eutrophication in Al-Sero Drain (South Nile Delta, Egypt). Journal of Freshwater Ecology, 2021, 36, 173-187.	1.2	1
111	Improving integrated management of weed control by determination of weed seed bank in sandy and clay soil. Saudi Journal of Biological Sciences, 2022, 29, 3023-3032.	3.8	1
112	FLORISTIC COMPOSITION AND VEGETATION ANALYSIS OF A DELTAIC STRIP ON THE EGYPTIAN MEDITERRANEAN COAST. Applied Ecology and Environmental Research, 2021, 19, 3053-3067.	0.5	0
113	Morphological Formation, Fatty Acid Profile, and Molecular Identification of Some Landraces of Ethiopian Brassica as a Promising Crop to Support Breeding Programs. Plants, 2021, 10, 1431.	3.5	0
114	Influence of foliar application of glycinebetaine on Tagetes erecta L yield cultivated under salinity conditions. Brazilian Journal of Biology, 2022, 82, e256502.	0.9	0