

Shahid Umar

List of Publications by Year in descending order

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65
papers

2,788
citations

257101

24
h-index

189595

50
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67
all docs

67
docs citations

67
times ranked

2922
citing authors

#	ARTICLE	IF	CITATIONS
1	A new perspective of phytohormones in salinity tolerance: Regulation of proline metabolism. <i>Environmental and Experimental Botany</i> , 2014, 100, 34-42.	2.0	296
2	Nitrogen availability regulates proline and ethylene production and alleviates salinity stress in mustard (<i>Brassica juncea</i>). <i>Journal of Plant Physiology</i> , 2015, 178, 84-91.	1.6	237
3	Nitrate accumulation in plants, factors affecting the process, and human health implications. A review. <i>Agronomy for Sustainable Development</i> , 2007, 27, 45-57.	2.2	230
4	Salicylic acid supplementation improves photosynthesis and growth in mustard through changes in proline accumulation and ethylene formation under drought stress. <i>South African Journal of Botany</i> , 2015, 98, 84-94.	1.2	197
5	Secondary metabolism of pharmaceuticals in the plant in vitro cultures: strategies, approaches, and limitations to achieving higher yield. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 132, 239-265.	1.2	194
6	Exogenous salicylic acid improves photosynthesis and growth through increase in ascorbate-glutathione metabolism and S assimilation in mustard under salt stress. <i>Plant Signaling and Behavior</i> , 2015, 10, e1003751.	1.2	174
7	Sulphur protects mustard (<i>Brassica campestris</i> L.) from cadmium toxicity by improving leaf ascorbate and glutathione. <i>Plant Growth Regulation</i> , 2008, 54, 271-279.	1.8	168
8	Cadmium causes oxidative stress in mung bean by affecting the antioxidant enzyme system and ascorbate-glutathione cycle metabolism. <i>Russian Journal of Plant Physiology</i> , 2011, 58, 92-99.	0.5	95
9	Modulation of glutathione and its related enzymes in plants' responses to toxic metals and metalloids" A review. <i>Environmental and Experimental Botany</i> , 2011, 75, 307-307.	2.0	84
10	The Crosstalk of Melatonin and Hydrogen Sulfide Determines Photosynthetic Performance by Regulation of Carbohydrate Metabolism in Wheat under Heat Stress. <i>Plants</i> , 2021, 10, 1778.	1.6	71
11	Nitric Oxide and Hydrogen Sulfide Coordinately Reduce Glucose Sensitivity and Decrease Oxidative Stress via Ascorbate-Glutathione Cycle in Heat-Stressed Wheat (<i>Triticum aestivum</i> L.) Plants. <i>Antioxidants</i> , 2021, 10, 108.	2.2	67
12	<i>Andrographis paniculata</i> : a critical appraisal of extraction, isolation and quantification of andrographolide and other active constituents. <i>Natural Product Research</i> , 2014, 28, 2081-2101.	1.0	60
13	Assessment of cadmium accumulation, toxicity, and tolerance in Brassicaceae and Fabaceae plants" implications for phytoremediation. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10286-10293.	2.7	59
14	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. <i>Scientific World Journal</i> , The, 2012, 2012, 1-12.	0.8	53
15	Ontogenic variation in response of <i>Brassica campestris</i> L. to cadmium toxicity. <i>Journal of Plant Interactions</i> , 2008, 3, 189-198.	1.0	50
16	Mechanism of Free Radical Scavenging and Role of Phytohormones in Plants Under Abiotic Stresses. , 2010, , 99-118.		46
17	GENOTYPIC DIFFERENCES IN YIELD AND QUALITY OF GROUNDNUT AS AFFECTED BY POTASSIUM NUTRITION UNDER ERRATIC RAINFALL CONDITIONS. <i>Journal of Plant Nutrition</i> , 2002, 25, 1549-1562.	0.9	45
18	Nitric Oxide and Abscisic Acid Mediate Heat Stress Tolerance through Regulation of Osmolytes and Antioxidants to Protect Photosynthesis and Growth in Wheat Plants. <i>Antioxidants</i> , 2022, 11, 372.	2.2	45

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19	Responses of Components of Antioxidant System in Moongbean Genotypes to Cadmium Stress. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 2469-2483.	0.6	37
20	Screening Indian Mustard Genotypes for Phytoremediating Arsenic Contaminated Soils. <i>Clean - Soil, Air, Water</i> , 2013, 41, 195-201.	0.7	30
21	Ethephon increases photosynthetic-nitrogen use efficiency, proline and antioxidant metabolism to alleviate decrease in photosynthesis under salinity stress in mustard. <i>Plant Signaling and Behavior</i> , 2017, 12, e1297000.	1.2	30
22	Crosstalk between abscisic acid and nitric oxide under heat stress: exploring new vantage points. <i>Plant Cell Reports</i> , 2021, 40, 1429-1450.	2.8	30
23	Bioprospecting Plant Growth Promoting Rhizobacteria for Enhancing the Biological Properties and Phytochemical Composition of Medicinally Important Crops. <i>Molecules</i> , 2022, 27, 1407.	1.7	29
24	Effect of foliar fertilization of potassium on yield, quality, and nutrient uptake of groundnut. <i>Journal of Plant Nutrition</i> , 1999, 22, 1785-1795.	0.9	28
25	Genotypic Variation in Phytoremediation Potential of Indian Mustard Exposed to Nickel Stress: A Hydroponic Study. <i>International Journal of Phytoremediation</i> , 2015, 17, 135-144.	1.7	26
26	Morpho-physiological traits associated with heat stress tolerance in tropical maize (<i>Zea mays</i> L.) at reproductive stage. <i>Australian Journal of Crop Science</i> , 2019, 13, 536-545.	0.1	25
27	<i>Gymnema sylvestre</i> for Diabetics. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2008, 14, 88-106.	0.5	24
28	Mercury-induced changes in growth variables and antioxidative enzyme activities in Indian mustard. <i>Journal of Plant Interactions</i> , 2009, 4, 131-136.	1.0	22
29	Heat Stress Tolerance in Plants: Action of Salicylic Acid. , 2017, , 145-161.		22
30	Potassium-induced alleviation of salinity stress in <i>Brassica campestris</i> L.. <i>Open Life Sciences</i> , 2011, 6, 1054-1063.	0.6	20
31	Zinc-induced modulation of some biochemical parameters in a high- and a low-zinc-accumulating genotype of <i>Cicer arietinum</i> L. grown under Zn-deficient condition. <i>Protoplasma</i> , 2015, 252, 1335-1345.	1.0	20
32	Regulatory Role of Proline in Heat Stress Tolerance. , 2019, , 437-448.		20
33	Influencing in vitro clonal propagation of <i>Chonemorpha fragrans</i> (moon) Alston by culture media strength, plant growth regulators, carbon source and photo periodic incubation. <i>Journal of Forestry Research</i> , 2020, 31, 27-43.	1.7	20
34	Variation in ornamental traits, physiological responses of <i>Tagetes erecta</i> L. and <i>T. patula</i> L. in relation to antioxidant and metabolic profile under deficit irrigation strategies. <i>Scientia Horticulturae</i> , 2017, 214, 200-208.	1.7	17
35	Growth characteristics and antioxidant metabolism of moongbean genotypes differing in photosynthetic capacity subjected to water deficit stress. <i>Journal of Plant Interactions</i> , 2008, 3, 127-136.	1.0	16
36	Identification of the Phytoremediation Potential of Indian mustard Genotypes for Copper, Evaluated from a Hydroponic Experiment. <i>Clean - Soil, Air, Water</i> , 2013, 41, 789-796.	0.7	16

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37	Protective Effect of 24-Epi brassinolide on Barley Plants Growing Under Combined Stress of Salinity and Potassium Deficiency. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1543-1558.	2.8	16
38	Psychrophilic Bacterial Phosphate-Biofertilizers: A Novel Extremophile for Sustainable Crop Production under Cold Environment. <i>Microorganisms</i> , 2021, 9, 2451.	1.6	16
39	Arsenic toxicity in garden cress (<i>Lepidium sativum</i> Linn.): significance of potassium nutrition. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6039-6049.	2.7	14
40	Efficacy of Characterized Prosopis Wood Biochar Amendments in Improving Growth, Nitrogen Use Efficiency, Nitrate Accumulation, and Mineral Content in Cabbage Genotypes. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 690-708.	1.7	11
41	Suitability of Indian mustard genotypes for phytoremediation of mercury-contaminated sites. <i>South African Journal of Botany</i> , 2021, 142, 12-18.	1.2	11
42	MODULATION OF NITROGEN-UTILIZATION EFFICIENCY IN WHEAT GENOTYPES DIFFERING IN NITRATE REDUCTASE ACTIVITY. <i>Journal of Plant Nutrition</i> , 2011, 34, 920-933.	0.9	9
43	Managing the pools of cellular redox buffers and the control of oxidative stress during the ontogeny of drought-exposed mungbean (<i>Vigna radiata</i> L.)—role of sulfur nutrition. <i>Frontiers in Environmental Science</i> , 2015, 2, .	1.5	9
44	Genetic, Developmental and Temporal Variability in Nitrate Accumulation and Nitrate Reductase Activity in Medicinal Herb <i>Andrographis paniculata</i> . <i>Pedosphere</i> , 2016, 26, 839-847.	2.1	9
45	Symbiotic Nitrogen Fixation by Lentil Improves Biochemical Characteristics and Yield of Intercropped Wheat Under Low Fertilizer Input. <i>Journal of Crop Improvement</i> , 2013, 27, 53-66.	0.9	8
46	Functional and Structural Changes associated with Cadmium in Mustard Plant: Effect of Applied Sulphur. <i>Communications in Soil Science and Plant Analysis</i> , 2006, 37, 1205-1217.	0.6	7
47	Influence of Combined Application of Potassium and Sulfur on Yield, Quality, and Storage Behavior of Potato. <i>Communications in Soil Science and Plant Analysis</i> , 2004, 35, 1047-1060.	0.6	6
48	Protection of growth and photosynthesis of <i>Brassica juncea</i> genotype with dual type sulfur transport system against sulfur deprivation by coordinate changes in the activities of sulfur metabolism enzymes and cysteine and glutathione production. <i>Russian Journal of Plant Physiology</i> , 2011, 58, 892-898.	0.5	6
49	Manipulating Osmolytes for Breeding Salinity-Tolerant Plants. , 2014, , 385-404.		6
50	Factors Responsible for Nitrate Accumulation: A Review. , 2009, , 533-549.		6
51	Sorghum-Phosphate Solubilizers Interactions: Crop Nutrition, Biotic Stress Alleviation, and Yield Optimization. <i>Frontiers in Plant Science</i> , 2021, 12, 746780.	1.7	6
52	Identification of characteristics affecting nitrogen utilization efficiencies in wheat cultivars. <i>Archives of Agronomy and Soil Science</i> , 2007, 53, 459-472.	1.3	5
53	Amenability of Indigenous Genotypes of Cabbage to Scavenge and Accumulate Nitrogen: Importance of Staggered Application and Root Morphology. <i>Journal of Plant Biology</i> , 2020, 63, 445-462.	0.9	5
54	An Attempt to Enhance Select Secondary Metabolite of <i>Artemisia annua</i> L.. <i>Journal of Biological Sciences</i> , 2013, 13, 499-506.	0.1	5

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55	Nitrate accumulation pattern in Brassica under nitrogen treatments. <i>Revista Brasileira De Botanica</i> , 2015, 38, 479-486.	0.5	4
56	Evaluating the Importance of Proline in Cadmium Tolerance and Its Interaction with Phytohormones. , 2016, , 129-153.		4
57	Influence of silver nitrate and copper sulfate on somatic embryogenesis, shoot morphogenesis, multiplication, and associated physiological biochemical changes in <i>Gladiolus hybridus</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2022, 149, 563-587.	1.2	3
58	Carbon and nitrogen assimilation, and growth of moongbean (<i>Vigna radiata</i> [L.] Wilczek) cultivars grown under sulfur regimes. <i>Archives of Agronomy and Soil Science</i> , 2009, 55, 207-215.	1.3	2
59	Proteome study of embryogenic competence acquisition in the callus cultures of <i>Nothapodytes nimmoniana</i> (J. Graham) Mabblerly. <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	1.0	2
60	Ageing-induced changes in nutritional and anti-nutritional factors in cowpea (<i>Vigna unguiculata</i> L.). <i>Journal of Food Science and Technology</i> , 2019, 56, 1757-1765.	1.4	2
61	Analysis of genetic, developmental and spatio-temporal patterns of nitrate accumulation in cauliflower and cabbage genotypes. <i>Plant Physiology Reports</i> , 0, , 1.	0.7	2
62	Biomass and camptothecin production in the calcium chloride elicited and liquid medium overlaid <i>Nothapodytes nimmoniana</i> (J. Graham) Mabblerly callus cultures. <i>Vegetos</i> , 0, , 1.	0.8	1
63	Nitrogen Pollution, Plants and Human Health. , 2015, , 27-61.		1
64	Yield and Growth Patterns of Chickpea Genotypes Differing in Zinc-accumulating Capacity. <i>International Journal of Agriculture and Biology</i> , 2016, , 1004-1010.	0.2	1
65	Influence of Integrated Approach of Azotobacter and Nitrogen Fertilizer on Various Morpho-Physiological and Biochemical Parameters of <i>Brassica Oleracea</i> L. var. capitata. <i>Current World Environment Journal</i> , 2021, Special Issue, 68-77.	0.2	0