Iqbal Hussain

List of Publications by Year in descending order

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90 papers	2,053 citations	279798 23 h-index	302126 39 g-index
96 all docs	96 docs citations	96 times ranked	2065 citing authors

#	Article	IF	Citations
1	Advances in microbe-assisted reclamation of heavy metal contaminated soils over the last decade: A review. Journal of Environmental Management, 2017, 198, 132-143.	7.8	178
2	Exogenously applied selenium reduces oxidative stress and induces heat tolerance in spring wheat. Plant Physiology and Biochemistry, 2015, 94, 95-103.	5.8	107
3	Role of proline and glycinebetaine pretreatments in improving heat tolerance of sprouting sugarcane (Saccharum sp.) buds. Plant Growth Regulation, 2011, 65, 35-45.	3.4	103
4	Phenological application of selenium differentially improves growth, oxidative defense and ion homeostasis in maize under salinity stress. Plant Physiology and Biochemistry, 2018, 123, 268-280.	5.8	94
5	Exogenously applied zinc and copper mitigate salinity effect in maize (Zea mays L.) by improving key physiological and biochemical attributes. Environmental Science and Pollution Research, 2018, 25, 23883-23896.	5.3	66
6	Exogenous application of silicon at the boot stage decreases accumulation of cadmium in wheat (Triticum aestivum L.) grains. Revista Brasileira De Botanica, 2015, 38, 223-234.	1.3	62
7	Hydrogen peroxide modulates antioxidant system and nutrient relation in maize (Zea maysL.) under water-deficit conditions. Archives of Agronomy and Soil Science, 2015, 61, 507-523.	2.6	58
8	Environmental Stress and Secondary Metabolites in Plants. , 2018, , 153-167.		56
9	Influence of Silicon Fertilization on Maize Performance Under Limited Water Supply. Silicon, 2018, 10, 177-183.	3.3	54
10	Glycine betaine counteracts the inhibitory effects of waterlogging on growth, photosynthetic pigments, oxidative defence system, nutrient composition, and fruit quality in tomato. Journal of Horticultural Science and Biotechnology, 2018, 93, 385-391.	1.9	53
11	Exogenous proline and glycinebetaine mitigate cadmium stress in two genetically different spring wheat (Triticum aestivum L.) cultivars. Revista Brasileira De Botanica, 2014, 37, 399-406.	1.3	52
12	Interactive effect of drought and cadmium stress on soybean root morphology and gene expression. Ecotoxicology and Environmental Safety, 2019, 175, 90-101.	6.0	51
13	Organic chelates decrease phytotoxic effects and enhance chromium uptake by regulating chromium-speciation in castor bean (Ricinus communis L.). Science of the Total Environment, 2020, 716, 137061.	8.0	50
14	Zinc Oxide Nanoparticles and Their Biosynthesis: Overview. Life, 2022, 12, 594.	2.4	49
15	Acinetobacter sp. SG-5 inoculation alleviates cadmium toxicity in differentially Cd tolerant maize cultivars as deciphered by improved physio-biochemical attributes, antioxidants and nutrient physiology. Plant Physiology and Biochemistry, 2020, 155, 815-827.	5.8	45
16	Seed nano-priming with Zinc Oxide nanoparticles in rice mitigates drought and enhances agronomic profile. PLoS ONE, 2022, 17, e0264967.	2.5	42
17	Menadione sodium bisulphite mediated growth, secondary metabolism, nutrient uptake and oxidative defense in okra (Abelmoschus esculentus Moench) under cadmium stress. Journal of Hazardous Materials, 2018, 360, 604-614.	12.4	39
18	Physiological and Biochemical Bases of Foliar Silicon-Induced Alleviation of Cadmium Toxicity in Wheat. Journal of Soil Science and Plant Nutrition, 2020, 20, 2714-2730.	3.4	37

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19	Silicon Fertigation Regimes Attenuates Cadmium Toxicity and Phytoremediation Potential in Two Maize (Zea mays L.) Cultivars by Minimizing Its Uptake and Oxidative Stress. Sustainability, 2022, 14, 1462.	3.2	35
20	Ethnomedicinal and folklore inventory of wild plants used by rural communities of valley Samahni, District Bhimber Azad Jammu and Kashmir, Pakistan. PLoS ONE, 2021, 16, e0243151.	2.5	32
21	Choline Chloride Mediates Chromium Tolerance in Spinach (Spinacia oleracea L.) by Restricting its Uptake in Relation to Morpho-physio-biochemical Attributes. Journal of Plant Growth Regulation, 2022, 41, 1594-1614.	5.1	32
22	Recent Advances in Abiotic Stress Tolerance of Plants Through Chemical Priming: An Overview. , 2018, , 51-79.		31
23	Acetyl and butyryl cholinesterase inhibitory sesquiterpene lactones from Amberboa ramosa. Chemistry Central Journal, 2013, 7, 116.	2.6	30
24	Hydrogen sulphide and nitric oxide mitigate the negative impacts of waterlogging stress on wheat (Triticum aestivum L.). Plant Biology, 2022, 24, 670-683.	3.8	30
25	Taurine modulates dynamics of oxidative defense, secondary metabolism, and nutrient relation to mitigate boron and chromium toxicity in Triticum aestivum L. plants. Environmental Science and Pollution Research, 2022, 29, 45527-45548.	5.3	30
26	Hydrogen sulfide mediates defense response in safflower by regulating secondary metabolism, oxidative defense, and elemental uptake under drought. Physiologia Plantarum, 2021, 172, 795-808.	5.2	25
27	Alleviation of cadmium stress by silicon nanoparticles during different phenological stages of Ujala wheat variety. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	25
28	Exogenously applied 5-aminolevulinic acid modulates growth, secondary metabolism and oxidative defense in sunflower under water deficit stress. Physiology and Molecular Biology of Plants, 2020, 26, 489-499.	3.1	25
29	Response of Maize Seedlings to Cadmium Application after Different Time Intervals. , 2013, 2013, 1-9.		24
30	Mitigating the Effects of Salinity by Foliar Application of Salicylic Acid in Fenugreek. Physiology Journal, 2014, 2014, 1-6.	0.4	24
31	Does exogenous application of ascorbic acid modulate growth, photosynthetic pigments and oxidative defense in okra (Abelmoschus esculentus (L.) Moench) under lead stress?. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	24
32	Exogenous Silicon Modulates Growth, Physio-Chemicals and Antioxidants in Barley (Hordeum vulgare) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	24
33	Responses and Management of Heat Stress in Plants. , 2012, , 135-157.		23
34	Possible mechanism of medium-supplemented thiourea in improving growth, gas exchange, and photosynthetic pigments in cadmium-stressed maize (Zea mays). Revista Brasileira De Botanica, 2015, 38, 71-79.	1.3	22
35	Effect of Metals or Trace Elements on Wheat Growth and Its Remediation in Contaminated Soil. Journal of Plant Growth Regulation, 2023, 42, 2258-2282.	5.1	21
36	Biochemical characterization of maize (Zea maysL.) for salt tolerance. Plant Biosystems, 2014, 148, 1016-1026.	1.6	20

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37	Chelators induced uptake of cadmium and modulation of water relation, antioxidants, and photosynthetic traits of maize. Environmental Science and Pollution Research, 2019, 26, 17577-17590.	5.3	20
38	Effect of Salt Stress on Different Growth and Biochemical Attributes in Two Canola (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.4	19
39	Corniculatin A, a new flavonoidal glucoside from Oxalis corniculata. Revista Brasileira De Farmacognosia, 2013, 23, 630-634.	1.4	18
40	Silicon Application Modulates Growth, Physio-Chemicals, and Antioxidants in Wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	17
41	Promotion of Growth and Physiological Characteristics in Water-Stressed Triticum aestivum in Relation to Foliar-Application of Salicylic Acid. Water (Switzerland), 2021, 13, 1316.	2.7	17
42	Taurine regulates ROS metabolism, osmotic adjustment, and nutrient uptake to lessen the effects of alkaline stress on Trifolium alexandrinum L. plants. South African Journal of Botany, 2022, 148, 482-498.	2.5	16
43	Cadmium-induced Perturbations in Growth, Oxidative Defense System, Catalase Gene Expression and Fruit Quality in Tomato. International Journal of Agriculture and Biology, 2017, 19, 61-68.	0.4	15
44	Effect of different seed priming agents on chromium accumulation, oxidative defense, glyoxalase system and mineral nutrition in canola (Brassica napus L.) cultivars. Environmental Pollution, 2022, 309, 119769.	7.5	15
45	Root zone selenium reduces cadmium toxicity by modulating tissue-specific growth and metabolism in maize (Zea maysL.). Archives of Agronomy and Soil Science, 2017, 63, 1900-1911.	2.6	14
46	Morphological and Physiological Responses of Plants to Cadmium Toxicity. , 2019, , 47-72.		13
47	Foliar Applied Acetylsalicylic Acid Induced Growth and Key-Biochemical Changes in Chickpea (Cicer) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	13
48	Inventorization of traditional ethnobotanical uses of wild plants of Dawarian and Ratti Gali areas of District Neelum, Azad Jammu and Kashmir Pakistan. PLoS ONE, 2021, 16, e0255010.	2.5	13
49	Biochemical Investigation of Therapeutic Potential of Resveratrol Against Arsenic Intoxication. Dose-Response, 2021, 19, 155932582110609.	1.6	13
50	Ethnobotanical studies of potential wild medicinal plants of Ormara, Gawadar, Pakistan. Emirates Journal of Food and Agriculture, 2013, 25, 751.	1.0	12
51	Investigations of Phytochemical Constituents and Their Pharmacological Properties Isolated from the Genus Urtica: Critical Review and Analysis. Critical Reviews in Eukaryotic Gene Expression, 2018, 28, 25-66.	0.9	12
52	Interactive effects of chitosan and cadmium on growth, secondary metabolism, oxidative defense, and element uptake in pea (Pisum sativum L.). Arabian Journal of Geosciences, 2020, 13, 1.	1.3	12
53	The Role of Non-Enzymatic Antioxidants in Improving Abiotic Stress Tolerance in Plants. , 2019, , 129-144.		12
54	Pakistamide C, a new sphingolipid from Abutilon pakistanicum. Revista Brasileira De Farmacognosia, 2014, 24, 277-281.	1.4	9

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55	Dynamic Proline Metabolism. , 2018, , 323-336.		9
56	Morpho-physiological changes in carrots by foliar Î³-aminobutyric acid under drought stress. Revista Brasileira De Botanica, 2021, 44, 57-68.	1.3	9
57	Partial repair of salinity-induced damage to sprouting sugarcane buds by proline and glycinebetaine pretreatment. Protoplasma, 2016, 253, 803-813.	2.1	8
58	Ethnopharmacological Investigations of Phytochemical Constituents Isolated from the Genus Cuscuta. Critical Reviews in Eukaryotic Gene Expression, 2017, 27, 113-150.	0.9	8
59	Ethnobotanical inventory and medicinal perspectives of herbal flora of Shiwalik mountainous range of District Bhimber, Azad Jammu and Kashmir, Pakistan. PLoS ONE, 2022, 17, e0265028.	2.5	8
60	Major Constraints for Global Rice Production: Changing Climate, Abiotic and Biotic Stresses. , 2020, , 15-45.		7
61	Heat shock increases oxidative stress to modulate growth and physico-chemical attributes in diverse maize cultivars. International Agrophysics, 2016, 30, 519-531.	1.7	6
62	Mechanisms of Salt Stress Tolerance in Halophytes : Biophysical and Biochemical Adaptations. , 2015, , 34-49.		5
63	Ethnobotanical and conservation studies of tree flora of Shiwalik mountainous range of District Bhimber Azad Jammu and Kashmir, Pakistan. PLoS ONE, 2022, 17, e0262338.	2.5	5
64	Review-Medicinal plants and management of Diabetes Mellitus: A review. Pakistan Journal of Pharmaceutical Sciences, 2016, 29, 1885-1891.	0.2	5
65	Alleviation of cadmium toxicity in Zea mays L. through up-regulation of growth, antioxidant defense system and organic osmolytes under calcium supplementation. PLoS ONE, 2022, 17, e0269162.	2.5	5
66	Review Potential Risk Assessment of Pharmaceutical Waste: Critical Review and Analysis. Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, 2020, 63, 209-219.	0.4	4
67	New Sphingolipids from Abutilon pakistanicum. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 433-437.	0.7	3
68	Seasonal Differences in Growth, Photosynthetic Pigments and Gas Exchange Properties in Two Greenhouse Grown Maize (Zea Mays L.) Cultivars. Acta Botanica Croatica, 2014, 73, 333-345.	0.7	3
69	Physiological and biochemical markers to optimize sugar mill wastewater for irrigation in maize (Zea) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	3
70	Amberinone, a new guaianolide from Amberboa ramosa. Natural Product Research, 2016, 30, 110-114.	1.8	3
71	Choline Chloride Mediates Salinity Tolerance in Cluster Bean (Cyamopsis tetragonoloba L.) by Improving Growth, Oxidative Defense, and Secondary Metabolism. Dose-Response, 2021, 19, 155932582110550.	1.6	3
72	Effect of Semiarid Environment on Some Nutritional and Antinutritional Attributes of Calendula (Calendula officinalis). Journal of Chemistry, 2015, 2015, 1-8.	1.9	2

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73	Tyrosine-priming modulates phenylpropanoid pathway in maize grown under different pH regimes. Cereal Research Communications, 2017, 45, 214-224.	1.6	2
74	Abiotic Stress-Induced Oxidative Stress in Rice. , 2019, , 489-504.		2
75	Effect of Pharmaceutical Effluents on Growth, Oxidative Defense, Secondary Metabolism, and Ion Homeostasis in Carrot. Dose-Response, 2021, 19, 155932582199850.	1.6	2
76	Chemical Priming for Multiple Stress Tolerance. , 2019, , 385-415.		2
77	Study on the medicinal plant Calandula officinalis. African Journal of Pharmacy and Pharmacology, 2012, 6, .	0.3	2
78	Assessment of rice (Oryza sativa L.) genotypes for drought stress tolerance using morpho-physiological indices as a screening technique. Pakistan Journal of Botany, 2021, 53, .	0.5	2
79	Silicon and nanosilicon mediated heat stress tolerance in plants. , 2022, , 153-159.		2
80	Investigating the role of different maize (Zea mays L.) cultivars by studying morpho-physiological attributes in chromium-stressed environment. Environmental Science and Pollution Research, 0, , .	5.3	2
81	Seasonal variations in some water relations and biochemical attributes of two genetically diverse maize cultivars. Revista Brasileira De Botanica, 2014, 37, 417-428.	1.3	1
82	Biochar: A Sustainable Product for Remediation of Contaminated Soils. , 2020, , 787-799.		1
83	Study of impacts of brickkiln emanations on soil quality of agriculture lands in selected areas of District Bhimber, Azad Jammu and Kashmir, Pakistan. PLoS ONE, 2022, 17, e0258438.	2.5	1
84	Silicon and nano-silicon in plant nutrition and crop quality. , 2022, , 277-295.		1
85	Extraction and Optimization of Active Metabolites From Cluster Bean: An In Vitro Biological and Phytochemical Investigation. Dose-Response, 2022, 20, 155932582210989.	1.6	1
86	Measurement of CYP1A2 Phenotype Using Female Volunteer Plasma: A Focus on Caffeine and Paraxanthine as a Probe. Journal of Applied Pharmacy, 2016, 8, .	0.1	0
87	Characterization and nutritional values of four tomato varieties in climatic conditions of District Layyah, Pakistan. Pure and Applied Biology, 2018, 7, .	0.2	0
88	Plant Growth-Promoting Bacteria Modulate Biotic and Abiotic Stress Tolerance in Legumes. , 2020, , 51-67.		0
89	Comparative Biochemical Analysis of High and Low Sucrose Accumulating Sugarcane Varieties at Formative Stage under Heat Stress. Tarim Bilimleri Dergisi, 0, , .	0.4	0
90	Fertigation of calcium nitrate [Ca(NO3)2] confers metal tolerance in two chickpea (Cicer arietinum L.) cultivars. Arabian Journal of Geosciences, 2022, 15, .	1.3	0