

Anket Sharma

List of Publications by Year in descending order

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112
papers

9,629
citations

50276

46
h-index

42399

92
g-index

116
all docs

116
docs citations

116
times ranked

7662
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of Phenylpropanoid Pathway and the Role of Polyphenols in Plants under Abiotic Stress. <i>Molecules</i> , 2019, 24, 2452.	3.8	999
2	Worldwide pesticide usage and its impacts on ecosystem. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	863
3	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses. <i>Chemosphere</i> , 2019, 236, 124364.	8.2	475
4	Phytohormones Regulate Accumulation of Osmolytes Under Abiotic Stress. <i>Biomolecules</i> , 2019, 9, 285.	4.0	412
5	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 509-531.	5.1	406
6	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art. <i>Chemosphere</i> , 2019, 216, 449-462.	8.2	308
7	Trichoderma: The "Secrets" of a Multitalented Biocontrol Agent. <i>Plants</i> , 2020, 9, 762.	3.5	287
8	The Impact of Drought in Plant Metabolism: How to Exploit Tolerance Mechanisms to Increase Crop Production. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5692.	2.5	281
9	Chromium Bioaccumulation and Its Impacts on Plants: An Overview. <i>Plants</i> , 2020, 9, 100.	3.5	257
10	Copper bioavailability, uptake, toxicity and tolerance in plants: A comprehensive review. <i>Chemosphere</i> , 2021, 262, 127810.	8.2	250
11	Role of 24-epibrassinolide (EBL) in mediating heavy metal and pesticide induced oxidative stress in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 935-944.	6.0	235
12	Melatonin regulates the functional components of photosynthesis, antioxidant system, gene expression, and metabolic pathways to induce drought resistance in grafted <i>Carya cathayensis</i> plants. <i>Science of the Total Environment</i> , 2020, 713, 136675.	8.0	223
13	The Role of Salicylic Acid in Plants Exposed to Heavy Metals. <i>Molecules</i> , 2020, 25, 540.	3.8	213
14	Nickel; whether toxic or essential for plants and environment - A review. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 641-651.	5.8	202
15	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in <i>Brassica juncea</i> L. plants. <i>Environmental and Experimental Botany</i> , 2019, 161, 180-192.	4.2	177
16	Melatonin Mediated Regulation of Drought Stress: Physiological and Molecular Aspects. <i>Plants</i> , 2019, 8, 190.	3.5	138
17	Role of jasmonic acid in plants: the molecular point of view. <i>Plant Cell Reports</i> , 2021, 40, 1471-1494.	5.6	135
18	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 295-303.	5.8	133

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19	Assessment of heavy-metal pollution in three different Indian water bodies by combination of multivariate analysis and water pollution indices. Human and Ecological Risk Assessment (HERA), 2020, 26, 1-16.	3.4	131
20	24-Epibrassinolide; an active brassinolide and its role in salt stress tolerance in plants: A review. Plant Physiology and Biochemistry, 2018, 130, 69-79.	5.8	129
21	Physiological and biochemical responses of soybean plants inoculated with Arbuscular mycorrhizal fungi and Bradyrhizobium under drought stress. BMC Plant Biology, 2021, 21, 195.	3.6	119
22	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in Brassica juncea L. seedlings under Pb stress. Environmental Science and Pollution Research, 2018, 25, 15159-15173.	5.3	106
23	Pre-sowing Seed Treatment with 24-Epibrassinolide Ameliorates Pesticide Stress in Brassica juncea L. through the Modulation of Stress Markers. Frontiers in Plant Science, 2016, 7, 1569.	3.6	104
24	Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects. Physiologia Plantarum, 2020, 168, 318-344.	5.2	102
25	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in Brassica juncea L. seedlings. Protoplasma, 2018, 255, 11-24.	2.1	102
26	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites. Chemosphere, 2019, 230, 628-639.	8.2	101
27	A review of ecological risk assessment and associated health risks with heavy metals in sediment from India. International Journal of Sediment Research, 2020, 35, 516-526.	3.5	83
28	Genetics and genomics of moso bamboo (<i>Phyllostachys edulis</i>): Current status, future challenges, and biotechnological opportunities toward a sustainable bamboo industry. Food and Energy Security, 2020, 9, e229.	4.3	80
29	Castasterone and citric acid treatment restores photosynthetic attributes in Brassica juncea L. under Cd(II) toxicity. Ecotoxicology and Environmental Safety, 2017, 145, 466-475.	6.0	77
30	Seed priming and foliar application with jasmonic acid enhance salinity stress tolerance of soybean (<i>Glycine max</i> L.) seedlings. Journal of the Science of Food and Agriculture, 2021, 101, 2027-2041.	3.5	74
31	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings. South African Journal of Botany, 2018, 119, 1-10.	2.5	73
32	Differential distribution of amino acids in plants. Amino Acids, 2017, 49, 821-869.	2.7	72
33	Jasmonic Acid Seed Treatment Stimulates Insecticide Detoxification in Brassica juncea L.. Frontiers in Plant Science, 2018, 9, 1609.	3.6	71
34	Brassinosteroid Signaling, Crosstalk and, Physiological Functions in Plants Under Heavy Metal Stress. Frontiers in Plant Science, 2021, 12, 608061.	3.6	70
35	Arbuscular Mycorrhizal Fungi and Plant Growth-Promoting Rhizobacteria Enhance Soil Key Enzymes, Plant Growth, Seed Yield, and Qualitative Attributes of Guar. Agriculture (Switzerland), 2021, 11, 194.	3.1	69
36	Castasterone attenuates insecticide induced phytotoxicity in mustard. Ecotoxicology and Environmental Safety, 2019, 179, 50-61.	6.0	68

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37	Brassinosteroid-mediated pesticide detoxification in plants: A mini-review. Cogent Food and Agriculture, 2018, 4, 1436212.	1.4	66
38	Nickel in soil and water: Sources, biogeochemistry, and remediation using biochar. Journal of Hazardous Materials, 2021, 419, 126421.	12.4	65
39	A brief appraisal of ethylene signaling under abiotic stress in plants. Plant Signaling and Behavior, 2020, 15, 1782051.	2.4	64
40	24-epibrassinolide stimulates imidacloprid detoxification by modulating the gene expression of Brassica juncea L. BMC Plant Biology, 2017, 17, 56.	3.6	62
41	Modulation of antioxidative defense expression and osmolyte content by co-application of 24-epibrassinolide and salicylic acid in Pb exposed Indian mustard plants. Ecotoxicology and Environmental Safety, 2018, 147, 382-393.	6.0	57
42	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea. Journal of Plant Growth Regulation, 2018, 37, 286-299.	5.1	57
43	Temporal distribution, source apportionment, and pollution assessment of metals in the sediments of Beas river, India. Human and Ecological Risk Assessment (HERA), 2018, 24, 2162-2181.	3.4	55
44	Water quality assessment of river Beas, India, using multivariate and remote sensing techniques. Environmental Monitoring and Assessment, 2016, 188, 137.	2.7	52
45	Castasterone confers copper stress tolerance by regulating antioxidant enzyme responses, antioxidants, and amino acid balance in B. juncea seedlings. Ecotoxicology and Environmental Safety, 2018, 147, 725-734.	6.0	52
46	Synergistic effect of 24-epibrassinolide and salicylic acid on photosynthetic efficiency and gene expression in Brassica juncea L. under Pb stress. Turkish Journal of Biology, 2017, 41, 943-953.	0.8	51
47	Modulation of the Functional Components of Growth, Photosynthesis, and Anti-Oxidant Stress Markers in Cadmium Exposed Brassica juncea L.. Plants, 2019, 8, 260.	3.5	49
48	Effect of seed pre-soaking with 24-epibrassinolide on growth and photosynthetic parameters of Brassica juncea L. in imidacloprid soil. Ecotoxicology and Environmental Safety, 2016, 133, 195-201.	6.0	47
49	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms. Protoplasma, 2018, 255, 471-484.	2.1	47
50	Impact of Plant Growth Promoting Rhizobacteria in the Orchestration of Lycopersicon esculentum Mill. Resistance to Plant Parasitic Nematodes: A Metabolomic Approach to Evaluate Defense Responses Under Field Conditions. Biomolecules, 2019, 9, 676.	4.0	47
51	Responses of Plants to Pesticide Toxicity: an Overview. Planta Daninha, 0, 37, .	0.5	47
52	The Dynamism of Transposon Methylation for Plant Development and Stress Adaptation. International Journal of Molecular Sciences, 2021, 22, 11387.	4.1	43
53	Seed pre-soaking with 24-epibrassinolide reduces the imidacloprid pesticide residues in green pods of Brassica juncea L.. Toxicological and Environmental Chemistry, 2017, 99, 95-103.	1.2	42
54	Differential distribution of polyphenols in plants using multivariate techniques. Biotechnology Research and Innovation, 2019, 3, 1-21.	0.9	42

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55	Pollution assessment and spatial distribution of roadside agricultural soils: a case study from India. <i>International Journal of Environmental Health Research</i> , 2020, 30, 146-159.	2.7	42
56	Epibrassinolide-imidacloprid interaction enhances non-enzymatic antioxidants in <i>Brassica juncea</i> L.. <i>Indian Journal of Plant Physiology</i> , 2016, 21, 70-75.	0.8	39
57	Brassinosteroids Regulate Functional Components of Antioxidative Defense System in Salt Stressed Maize Seedlings. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1465-1475.	5.1	38
58	Effect of earthworms on growth, photosynthetic efficiency and metal uptake in <i>Brassica juncea</i> L. plants grown in cadmium-polluted soils. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13452-13465.	5.3	37
59	Molecular Responses during Plant Grafting and Its Regulation by Auxins, Cytokinins, and Gibberellins. <i>Biomolecules</i> , 2019, 9, 397.	4.0	37
60	Role of earthworms in phytoremediation of cadmium (Cd) by modulating the antioxidative potential of <i>Brassica juncea</i> L.. <i>Applied Soil Ecology</i> , 2018, 124, 306-316.	4.3	35
61	Heavy metal induced regulation of plant biology: Recent insights. <i>Physiologia Plantarum</i> , 2022, 174, e13688.	5.2	35
62	Ecological and human health risks appraisal of metal(loid)s in agricultural soils: a review. , 2021, 5, 173-185.		33
63	Ameliorating imidacloprid induced oxidative stress by 24-epibrassinolide in <i>Brassica juncea</i> L.. <i>Russian Journal of Plant Physiology</i> , 2017, 64, 509-517.	1.1	30
64	Cd induced generation of free radical species in <i>Brassica juncea</i> is regulated by supplementation of earthworms in the drilosphere. <i>Science of the Total Environment</i> , 2019, 655, 663-675.	8.0	29
65	ROS Signaling in Plants Under Heavy Metal Stress. , 2017, , 185-214.		28
66	Analysis of organic acids of tricarboxylic acid cycle in plants using GC-MS, and system modeling. <i>Journal of Analytical Science and Technology</i> , 2017, 8, .	2.1	28
67	Multivariate analysis on the distribution of elements in plants. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	2.1	28
68	Melatonin Stimulates Activities and Expression Level of Antioxidant Enzymes and Preserves Functionality of Photosynthetic Apparatus in Hickory Plants (<i>Carya cathayensis</i> Sarg.) under PEG-Promoted Drought. <i>Agronomy</i> , 2019, 9, 702.	3.0	28
69	A tabulated review on distribution of heavy metals in various plants. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2210-2260.	5.3	27
70	GC-MS studies reveal stimulated pesticide detoxification by brassinolide application in <i>Brassica juncea</i> L. plants. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14518-14525.	5.3	26
71	Seed Priming with Jasmonic Acid Counteracts Root Knot Nematode Infection in Tomato by Modulating the Activity and Expression of Antioxidative Enzymes. <i>Biomolecules</i> , 2020, 10, 98.	4.0	26
72	Exploiting the Allelopathic Potential of Aqueous Leaf Extracts of <i>Artemisia absinthium</i> and <i>Psidium guajava</i> against <i>Parthenium hysterophorus</i> , a Widespread Weed in India. <i>Plants</i> , 2019, 8, 552.	3.5	24

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73	Biochemical markers for prolongation of the acute stress of triclosan in the early life stages of four food fishes. <i>Chemosphere</i> , 2020, 247, 125914.	8.2	23
74	In-vitro antioxidant, antimutagenic and cancer cell growth inhibition activities of <i>Rhododendron arboreum</i> leaves and flowers. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1788-1796.	3.8	23
75	Isolation of Phytochemicals from <i>Bauhinia variegata</i> L. Bark and Their In Vitro Antioxidant and Cytotoxic Potential. <i>Antioxidants</i> , 2019, 8, 492.	5.1	22
76	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation. <i>Heliyon</i> , 2019, 5, e02606.	3.2	22
77	5-aminolevulinic acid regulates Krebs cycle, antioxidative system and gene expression in <i>Brassica juncea</i> L. to confer tolerance against lead toxicity. <i>Journal of Biotechnology</i> , 2020, 323, 283-292.	3.8	22
78	Antioxidant, Antiproliferative and Apoptosis-Inducing Efficacy of Fractions from <i>Cassia fistula</i> L. Leaves. <i>Antioxidants</i> , 2020, 9, 173.	5.1	22
79	Nitric oxide mediated mechanisms adopted by plants to cope with salinity. <i>Biologia Plantarum</i> , 0, 64, 512-518.	1.9	21
80	Assessment of pollution in roadside soils by using multivariate statistical techniques and contamination indices. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	19
81	Evaluation of the role of Rhizobacteria in controlling root knot nematode (RKN) infection in <i>Lycopersicon esculentum</i> plants by modulation in the secondary metabolite profiles. <i>AoB PLANTS</i> , 2019, , .	2.3	19
82	Microbial production of dicarboxylic acids from edible plants and milk using GC-MS. <i>Journal of Analytical Science and Technology</i> , 2018, 9, .	2.1	18
83	Current Scenario of Pb Toxicity in Plants: Unraveling Plethora of Physiological Responses. <i>Reviews of Environmental Contamination and Toxicology</i> , 2019, 249, 153-197.	1.3	18
84	Biomarkers for the toxicity of sublethal concentrations of triclosan to the early life stages of carps. <i>Scientific Reports</i> , 2020, 10, 17322.	3.3	18
85	Amino acids distribution in economical important plants: a review. <i>Biotechnology Research and Innovation</i> , 2019, 3, 197-207.	0.9	17
86	Assessment of soil properties from catchment areas of Ravi and Beas rivers: a review. , 2019, 3, 149-157.		15
87	Role of Compatible Solutes in Enhancing Antioxidative Defense in Plants Exposed to Metal Toxicity. , 2018, , 207-228.		14
88	Therapeutic Potential of Brassinosteroids in Biomedical and Clinical Research. <i>Biomolecules</i> , 2020, 10, 572.	4.0	14
89	Potential of Endophytic Bacteria in Heavy Metal and Pesticide Detoxification. <i>Microorganisms for Sustainability</i> , 2018, , 307-336.	0.7	13
90	Mechanisms of Plant Defense Under Pathogen Stress: A Review. <i>Current Protein and Peptide Science</i> , 2021, 22, 376-395.	1.4	13

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91	Identification and expression analysis of auxin-responsive GH3 family genes in Chinese hickory (<i>Carya</i>) Tj ETQq1 1 0,784314 rgBT /Overl	2.3	13
92	Brassinosteroids and metalloids: Regulation of plant biology. <i>Journal of Hazardous Materials</i> , 2022, 424, 127518.	12.4	13
93	Amelioration of Chlorpyrifos-Induced Toxicity in <i>Brassica juncea</i> L. by Combination of 24-Epibrassinolide and Plant-Growth-Promoting Rhizobacteria. <i>Biomolecules</i> , 2021, 11, 877.	4.0	11
94	Water Quality of River Beas, India. <i>Current Science</i> , 2017, 112, 1138.	0.8	11
95	Phytoremediation in Waste Management: Hyperaccumulation Diversity and Techniques. , 2018, , 277-302.		9
96	Transcriptomic analysis reveals potential pathways associated with salt resistance in pecan (<i>Carya</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	9
97	24-Epibrassinolide Restores the Synthesis of Proteins and Amino Acids in <i>Brassica juncea</i> L. Leaves Under Imidacloprid Stress. <i>Journal of Horticultural Research</i> , 2017, 25, 85-90.	0.9	8
98	Comparison of different reflectance indices for vegetation analysis using Landsat-TM data. <i>Remote Sensing Applications: Society and Environment</i> , 2018, 12, 70-77.	1.5	8
99	Elemental Composition of Plants and Multivariate Analysis. <i>The National Academy of Sciences, India</i> , 2019, 42, 45-50.	1.3	8
100	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation. <i>Plant and Soil</i> , 2020, 446, 393-411.	3.7	8
101	Phytochemical and Elemental Analysis of <i>Brassica juncea</i> L. Leaves using GC-MS and SEM-EDX. <i>Research Journal of Pharmacy and Technology</i> , 2015, 8, 1662.	0.8	7
102	Water Quality of River Beas, India, and Its Correlation with Reflectance Data. <i>Journal of Water Chemistry and Technology</i> , 2020, 42, 134-141.	0.6	5
103	Phytochemical profiling of the leaves of <i>Chenopodium</i> and <i>Polygonum</i> using GC-MS. <i>Research Journal of Pharmacy and Technology</i> , 2015, 8, 1629.	0.8	5
104	Genome-wide identification and expression profiles of ABCB gene family in Chinese hickory (<i>Carya</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	5
105	Brassinosteroids: Improving Crop Productivity and Abiotic Stress Tolerance. , 2014, , 161-187.		4
106	Monitoring and Characterization of Soils from River Bed of Beas, India, Using Multivariate and Remote Sensing Techniques. <i>British Journal of Applied Science & Technology</i> , 2016, 12, 1-12.	0.2	4
107	Tree seedlings suffer oxidative stress but stimulate soil enzyme activity in oil sludge-contaminated soil in a species-specific manner. <i>Trees - Structure and Function</i> , 2020, 34, 1267-1279.	1.9	2
108	Post-infectional changes associated with the progression of leaf spot disease in <i>Calotropis procera</i> Aiton. <i>Physiological and Molecular Plant Pathology</i> , 2020, 112, 101519.	2.5	2

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109	Extending the concept of entropy-negentropy for the assessment of ecological dominance and diversity at alpha, beta and gamma levels. , 2023, 7, 27-39.		2
110	Ameliorative Role of Pre-Sowing Proline Treatment in Coriandrum sativum L. Seedlings under Mercury Toxicity. Phytion, 2021, 90, 489-501.	0.7	2
111	Application of titanium regulates the functional components of photosynthetic apparatus in grafted seedlings of <i>Carya cathayensis</i> Sarg. under shade. Chemosphere, 2022, 290, 133301.	8.2	2
112	Tolerance mechanisms of Indonesian plant varieties of yardlong beans (<i>Vigna unguiculata</i> sub sp.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0