Parvaiz Ahmad

List of Publications by Year in descending order

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308 papers	20,344 citations	9234 74 h-index	19136 118 g-index
412 all docs	412 docs citations	412 times ranked	11903 citing authors

#	Article	IF	Citations
1	Nitric oxide effectively orchestrates postharvest flower senescence: a case study of. Functional Plant Biology, 2023, 50, 97-107.	1.1	10
2	Silicon Enhances Morphoâ€“Physioâ€“Biochemical Responses in Arsenic Stressed Spinach (Spinacia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	21
3	Boron in plants: uptake, deficiency and biological potential. Plant Growth Regulation, 2023, 100, 267-282.	1.8	20
4	Karrikins: Smoke-Derived Phytohormones from Stress Alleviation to Signaling. Journal of Plant Growth Regulation, 2023, 42, 4784-4796.	2.8	3
5	Drought-tolerant Bacillus megaterium isolated from semi-arid conditions induces systemic tolerance of wheat under drought conditions. Plant Cell Reports, 2022, 41, 549-569.	2.8	62
6	Salicylic Acid-Mediated Regulation of Morpho-Physiological and Yield Attributes of Wheat and Barley Plants in Deferring Salinity Stress. Journal of Plant Growth Regulation, 2022, 41, 1291-1303.	2.8	9
7	Droughtâ€tolerant <scp>Pseudomonas</scp> sp. showed differential expression of stressâ€responsive genes and induced drought tolerance in <scp>Arabidopsis thaliana</scp>. Physiologia Plantarum, 2022, 174, .	2.6	47
8	Unsnarling Plausible Role of Plant Growth-Promoting Rhizobacteria for Mitigating Cd-Toxicity from Plants: An Environmental Safety Aspect. Journal of Plant Growth Regulation, 2022, 41, 2514-2542.	2.8	13
9	Pretreatment with 24-Epibrassinolide Synergistically Protects Root Structures and Chloroplastic Pigments and Upregulates Antioxidant Enzymes and Biomass in Na+-Stressed Tomato Plants. Journal of Plant Growth Regulation, 2022, 41, 2869-2885.	2.8	14
10	Metalloids in plant biology: New avenues in their research. Journal of Hazardous Materials, 2022, 422, 126738.	6.5	3
11	Elevation in wildfire frequencies with respect to the climate change. Journal of Environmental Management, 2022, 301, 113769.	3.8	70
12	Defense interplay of the zinc-oxide nanoparticles and melatonin in alleviating the arsenic stress in soybean (Glycine max L.). Chemosphere, 2022, 288, 132471.	4.2	45
13	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. Chemosphere, 2022, 288, 132606.	4.2	41
14	Newly-synthesized iron-oxide nanoparticles showed synergetic effect with citric acid for alleviating arsenic phytotoxicity in soybean. Environmental Pollution, 2022, 295, 118693.	3.7	15
15	Efficacy of citric acid chelate and Bacillus sp. in amelioration of cadmium and chromium toxicity in wheat. Chemosphere, 2022, 290, 133342.	4.2	29
16	The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatins and nitrogen metabolism in pepper plants. Environmental Pollution, 2022, 297, 118727.	3.7	50
17	Induced systemic tolerance mediated by plant-microbe interaction in maize (Zea mays L.) plants under hydrocarbon contamination. Chemosphere, 2022, 290, 133327.	4.2	11
18	Comparative analysis of iron oxide nanoparticles synthesized from ginger (Zingiber officinale) and cumin seeds (Cuminum cyminum) to induce resistance in wheat against drought stress. Chemosphere, 2022, 292, 133201.	4.2	40

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19	Agroecotoxicological Aspect of Cd in Soilâ€“Plant System: Uptake, Translocation and Amelioration Strategies. Environmental Science and Pollution Research, 2022, 29, 30908-30934.	2.7	24
20	Co application of biofertilizer and zinc oxide nanoparticles upregulate protective mechanism culminating improved arsenic resistance in maize. Chemosphere, 2022, 294, 133796.	4.2	24
21	Reactive Oxygen Species in Plants: From Source to Sink. Antioxidants, 2022, 11, 225.	2.2	197
22	Unravelling salt tolerance mechanisms in plants: From lab to field. Plant Physiology and Biochemistry, 2022, 176, 31-33.	2.8	10
23	Melatonin Improves Drought Stress Tolerance of Tomato by Modulating Plant Growth, Root Architecture, Photosynthesis, and Antioxidant Defense System. Antioxidants, 2022, 11, 309.	2.2	128
24	Characterization of SOD and GPX Gene Families in the Soybeans in Response to Drought and Salinity Stresses. Antioxidants, 2022, 11, 460.	2.2	25
25	Reproductive Biology of Rheum webbianum Royle, a Vulnerable Medicinal Herb From Alpines of North-Western Himalaya. Frontiers in Plant Science, 2022, 13, 699645.	1.7	10
26	Combining Biocontrol Agent With Plant Nutrients for Integrated Control of Tomato Early Blight Through the Modulation of Physio-Chemical Attributes and Key Antioxidants. Frontiers in Microbiology, 2022, 13, 807699.	1.5	11
27	Accumulation of chromium in plants and its repercussion in animals and humans. Environmental Pollution, 2022, 301, 119044.	3.7	67
28	Attenuation mechanisms of arsenic induced toxicity and its accumulation in plants by engineered nanoparticles: A review. Environmental Pollution, 2022, 302, 119038.	3.7	29
29	Chromium toxicity induced oxidative damage in two rice cultivars and its mitigation through external supplementation of brassinosteroids and spermine. Chemosphere, 2022, 302, 134423.	4.2	27
30	Aquaporinâ€mediated transport: Insights into metalloid trafficking. Physiologia Plantarum, 2022, 174, e13687.	2.6	7
31	Arsenic as hazardous pollutant: Perspectives on engineering remediation tools. Science of the Total Environment, 2022, 838, 155870.	3.9	17
32	Role of biochar and compost in cadmium immobilization and on the growth of Spinacia oleracea. PLoS ONE, 2022, 17, e0263289.	1.1	4
33	Nitric oxide, salicylic acid and oxidative stress: Is it a perfect equilateral triangle?. Plant Physiology and Biochemistry, 2022, 184, 56-64.	2.8	8
34	Thiamin stimulates growth, yield quality and key biochemical processes of cauliflower (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.1	4
35	Silicon-mediated metabolic upregulation of ascorbate glutathione (AsA-GSH) and glyoxalase reduces the toxic effects of vanadium in rice. Journal of Hazardous Materials, 2022, 436, 129145.	6.5	13
36	Nitric oxide and spermine revealed positive defense interplay for the regulation of the chromium toxicity in soybean (Glycine max L.). Environmental Pollution, 2022, 308, 119602.	3.7	13

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37	Melatonin: First-line soldier in tomato under abiotic stress current and future perspective. Plant Physiology and Biochemistry, 2022, 185, 188-197.	2.8	54
38	Bacterial bioaugmentation enhances hydrocarbon degradation, plant colonization and gene expression in dieselâ€contaminated soil. Physiologia Plantarum, 2021, 173, 58-66.	2.6	5
39	Hydrogen Sulfide (H2S) Mitigates Arsenic (As)-Induced Toxicity in Pea (Pisum sativum L.) Plants by Regulating Osmoregulation, Antioxidant Defense System, Ascorbate Glutathione Cycle and Glyoxalase System. Journal of Plant Growth Regulation, 2021, 40, 2515-2531.	2.8	48
40	Identification of differentially expressed genes and pathways in isonuclear kenaf genotypes under salt stress. Physiologia Plantarum, 2021, 173, 1295-1308.	2.6	10
41	Stress Protective Effect of Rhododendron arboreum Leaves (MEL) on Chromium-Treated Vigna radiata Plants. Journal of Plant Growth Regulation, 2021, 40, 423-435.	2.8	16
42	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. Physiologia Plantarum, 2021, 172, 317-333.	2.6	103
43	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. Journal of Plant Growth Regulation, 2021, 40, 891-905.	2.8	9
44	Silicon and Plants: Current Knowledge and Future Prospects. Journal of Plant Growth Regulation, 2021, 40, 906-925.	2.8	113
45	Zingerone prevents leadâ€induced toxicity in liver and kidney tissues by regulating the oxidative damage in Wistar rats. Journal of Food Biochemistry, 2021, 45, e13241.	1.2	25
46	Ion homeostasis for salinity tolerance in plants: a molecular approach. Physiologia Plantarum, 2021, 171, 578-594.	2.6	63
47	Herbal immune-boosters: Substantial warriors of pandemic Covid-19 battle. Phytomedicine, 2021, 85, 153361.	2.3	106
48	Impact of bovine serum albumin â€“ A protein corona on toxicity of ZnO NPs in environmental model systems of plant, bacteria, algae and crustaceans. Chemosphere, 2021, 270, 128629.	4.2	27
49	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. Journal of Hazardous Materials, 2021, 406, 124289.	6.5	68
50	Seed priming with titanium dioxide nanoparticles enhances seed vigor, leaf water status, and antioxidant enzyme activities in maize (Zea mays L.) under salinity stress. Journal of King Saud University - Science, 2021, 33, 101207.	1.6	148
51	Melatonin improves the seed filling rate and endogenous hormonal mechanism in grains of summer maize. Physiologia Plantarum, 2021, 172, 1059-1072.	2.6	33
52	Foliar fertigation of ascorbic acid and zinc improves growth, antioxidant enzyme activity and harvest index in barley (Hordeum vulgare L.) grown under salt stress. Plant Physiology and Biochemistry, 2021, 158, 244-254.	2.8	81
53	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. Journal of Hazardous Materials, 2021, 408, 124852.	6.5	38
54	Silicon distribution in leaves and roots of rice and maize in response to cadmium and zinc toxicity and the associated histological variations. Physiologia Plantarum, 2021, 173, 460-471.	2.6	5

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55	Arbuscular mycorrhiza in combating abiotic stresses in vegetables: An eco-friendly approach. Saudi Journal of Biological Sciences, 2021, 28, 1465-1476.	1.8	62
56	Influence of salinity stress on PSII in barley (Hordeum vulgare L.) genotypes, probed by chlorophyll-a fluorescence. Journal of King Saud University - Science, 2021, 33, 101239.	1.6	57
57	Deciphering genetic diversity analysis of saffron (Crocus sativus L.) using RAPD and ISSR markers. Saudi Journal of Biological Sciences, 2021, 28, 1308-1317.	1.8	24
58	Foliar Concentrations of Selected Elements, Assessment of Oxidative Stress Markers and Role of Antioxidant Defense System is Associated with Fly Ash Stress Tolerance in Withania somnifera. Journal of Plant Growth Regulation, 2021, 40, 1450-1465.	2.8	7
59	Thiamin stimulates growth and secondary metabolites in turnip (<scp>Brassica rapa</scp> L.) leaf and root under drought stress. Physiologia Plantarum, 2021, 172, 1399-1411.	2.6	23
60	The effect of NADPH oxidase inhibitor diphenyleneiodonium (DPI) and glutathione (GSH) on Isatis cappadocica, under Arsenic (As) toxicity. International Journal of Phytoremediation, 2021, 23, 945-957.	1.7	12
61	Heavy metal bioaccumulation by selected plants from fly ashâ€“contaminated soils in suburban area. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	4
62	Exogenous hemin improves Cd2+ tolerance and remediation potential inÂVigna radiataÂby intensifying the HO-1 mediated antioxidant defence system. Scientific Reports, 2021, 11, 2811.	1.6	22
63	Scanning electron microscopy of Sophora alopecuroides L. seeds and their cytotoxic, antimicrobial, antioxidant, and enzyme inhibition potentials. Microscopy Research and Technique, 2021, 84, 1809-1820.	1.2	11
64	Combined gas exchange characteristics, chlorophyll fluorescence and response curves as selection traits for temperature tolerance in maize genotypes. Photosynthesis Research, 2021, 150, 213-225.	1.6	12
65	Zinc oxide nanoparticles (ZnO-NPs) induce salt tolerance by improving the antioxidant system and photosynthetic machinery in tomato. Plant Physiology and Biochemistry, 2021, 161, 122-130.	2.8	171
66	Exogenously applied spermidine confers protection against cinnamic acid-mediated oxidative stress in Pisum sativum. Saudi Journal of Biological Sciences, 2021, 28, 2619-2625.	1.8	7
67	Foliar application of fungicide-opera alleviates negative impact of water stress in soybean plants. Saudi Journal of Biological Sciences, 2021, 28, 2626-2633.	1.8	4
68	Biochar as a tool for effective management of drought and heavy metal toxicity. Chemosphere, 2021, 271, 129458.	4.2	152
69	Understanding drought tolerance in plants. Physiologia Plantarum, 2021, 172, 286-288.	2.6	17
70	Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbateâ€“glutathione cycle and glyoxalase system. Acta Physiologiae Plantarum, 2021, 43, 1.	1.0	32
71	Combined application of zinc oxide nanoparticles and biofertilizer to induce salt resistance in safflower by regulating ion homeostasis and antioxidant defence responses. Ecotoxicology and Environmental Safety, 2021, 218, 112262.	2.9	66
72	Exogenous 24-Epibrassinolide stimulates root protection, and leaf antioxidant enzymes in lead stressed rice plants: Central roles to minimize Pb content and oxidative stress. Environmental Pollution, 2021, 280, 116992.	3.7	39

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73	Zinc oxide nanoparticles and 24-epibrassinolide alleviates Cu toxicity in tomato by regulating ROS scavenging, stomatal movement and photosynthesis. Ecotoxicology and Environmental Safety, 2021, 218, 112293.	2.9	60
74	Methyl Jasmonate Protects the PS II System by Maintaining the Stability of Chloroplast D1 Protein and Accelerating Enzymatic Antioxidants in Heat-Stressed Wheat Plants. Antioxidants, 2021, 10, 1216.	2.2	46
75	Methyl Jasmonate and Sodium Nitroprusside Jointly Alleviate Cadmium Toxicity in Wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock Frontiers in Plant Science, 2021, 12, 654780.	1.7	25
76	Elucidating the role of silicon in drought stress tolerance in plants. Plant Physiology and Biochemistry, 2021, 165, 187-195.	2.8	64
77	Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. Journal of Hazardous Materials, 2021, 415, 125585.	6.5	55
78	Synergistic effects of plant growth promoting rhizobacteria and silicon dioxide nano-particles for amelioration of drought stress in wheat. Plant Physiology and Biochemistry, 2021, 166, 160-176.	2.8	70
79	Uptake, accumulation and elimination of cadmium in a soil - Faba bean (Vicia faba) - Aphid (Aphis fabae) - Ladybird (Coccinella transversalis) food chain. Chemosphere, 2021, 279, 130522.	4.2	14
80	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. Science of the Total Environment, 2021, 785, 147226.	3.9	13
81	Zinc oxide nanoparticles alleviates the adverse effects of cadmium stress on Oryza sativa via modulation of the photosynthesis and antioxidant defense system. Ecotoxicology and Environmental Safety, 2021, 220, 112401.	2.9	79
82	Fate of arsenic in living systems: Implications for sustainable and safe food chains. Journal of Hazardous Materials, 2021, 417, 126050.	6.5	69
83	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. Ecotoxicology and Environmental Safety, 2021, 222, 112459.	2.9	42
84	Biosynthesis and characterization of titanium dioxide nanoparticles and its effects along with calcium phosphate on physicochemical attributes of wheat under drought stress. Ecotoxicology and Environmental Safety, 2021, 223, 112519.	2.9	63
85	Endogenous nitric oxide and its potential sources regulate glutathione-induced cadmium stress tolerance in maize plants. Plant Physiology and Biochemistry, 2021, 167, 723-737.	2.8	13
86	A comprehensive review of adaptations in plants under arsenic toxicity: Physiological, metabolic and molecular interventions. Environmental Pollution, 2021, 290, 118029.	3.7	28
87	Antimicrobial, cytotoxic, antioxidants, enzyme inhibition activities, and scanning electron microscopy of Lactuca orientalis (Boiss.) Boiss. seeds. Microscopy Research and Technique, 2021, 84, 1284-1295.	1.2	12
88	Jasmonic acid (JA) and gibberellic acid (GA3) mitigated Cd-toxicity in chickpea plants through restricted cd uptake and oxidative stress management. Scientific Reports, 2021, 11, 19768.	1.6	47
89	Green synthesis of zinc oxide nanoparticles using Elaeagnus angustifolia L. leaf extracts and their multiple in vitro biological applications. Scientific Reports, 2021, 11, 20988.	1.6	72
90	24-epibrassinolide (EBR) reduces oxidative stress damage induced by cadmium toxicity by restricting cd uptake and modulating some key antioxidant enzymes in maize plants. Pakistan Journal of Botany, 2021, 53, .	0.2	7

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91	Plant growth promoters mediated quality and yield attributes of milk thistle (Silybum marianum L.) ecotypes under salinity stress. Scientific Reports, 2021, 11, 23200.	1.6	8
92	Methionine-induced regulation of growth, secondary metabolites and oxidative defense system in sunflower (Helianthus annuus L.) plants subjected to water deficit stress. PLoS ONE, 2021, 16, e0259585.	1.1	14
93	Ascorbateâ€“Glutathione Oxidant Scavengers, Metabolome Analysis and Adaptation Mechanisms of Ion Exclusion in Sorghum under Salt Stress. International Journal of Molecular Sciences, 2021, 22, 13249.	1.8	16
94	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. Physiologia Plantarum, 2020, 168, 345-360.	2.6	204
95	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. Physiologia Plantarum, 2020, 168, 289-300.	2.6	137
96	Integrative roles of nitric oxide and hydrogen sulfide in melatoninâ€induced tolerance of pepper (<scp>Capsicum annuum</scp> L.) plants to iron deficiency and salt stress alone or in combination. Physiologia Plantarum, 2020, 168, 256-277.	2.6	216
97	Seed Priming with Jasmonic Acid Counteracts Root Knot Nematode Infection in Tomato by Modulating the Activity and Expression of Antioxidative Enzymes. Biomolecules, 2020, 10, 98.	1.8	26
98	Influence of Exogenous Salicylic Acid and Nitric Oxide on Growth, Photosynthesis, and Ascorbate-Glutathione Cycle in Salt Stressed Vigna angularis. Biomolecules, 2020, 10, 42.	1.8	201
99	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (Capsicum annuum L.) plants. Plant Physiology and Biochemistry, 2020, 147, 10-20.	2.8	101
100	Combined effects of brassinosteroid and kinetin mitigates salinity stress in tomato through the modulation of antioxidant and osmolyte metabolism. Plant Physiology and Biochemistry, 2020, 147, 31-42.	2.8	114
101	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation. Plant and Soil, 2020, 446, 393-411.	1.8	8
102	Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in Vicia faba through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. Chemosphere, 2020, 244, 125480.	4.2	86
103	Extraction, Quantification, and Cytokine Inhibitory Response of Bakuchiol in Psoralea coryfolia Linn.. Separations, 2020, 7, 48.	1.1	7
104	Plant growth regulators: a sustainable approach to combat pesticide toxicity. 3 Biotech, 2020, 10, 466.	1.1	20
105	Interaction of ZnO nanoparticle and AM fungi mitigates Pb toxicity in wheat by upregulating antioxidants and restricted uptake of Pb. Journal of Biotechnology, 2020, 323, 254-263.	1.9	36
106	Isolation, purification and characterization of naturally derived Crocetin beta-d-glucosyl ester from Crocus sativus L. against breast cancer and its binding chemistry with ER-alpha/HDAC2. Saudi Journal of Biological Sciences, 2020, 27, 975-984.	1.8	36
107	Foliar Application of 24-Epibrassinolide Improves Growth, Ascorbate-Glutathione Cycle, and Glyoxalase System in Brown Mustard (Brassica juncea (L.) Czern.) under Cadmium Toxicity. Plants, 2020, 9, 1487.	1.6	29
108	Ameliorating the Drought Stress for Wheat Growth through Application of ACC-Deaminase Containing Rhizobacteria along with Biogas Slurry. Sustainability, 2020, 12, 6022.	1.6	48

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109	Low Doses of Cuscuta reflexa Extract Act as Natural Biostimulants to Improve the Germination Vigor, Growth, and Grain Yield of Wheat Grown under Water Stress: Photosynthetic Pigments, Antioxidative Defense Mechanisms, and Nutrient Acquisition. Biomolecules, 2020, 10, 1212.	1.8	17
110	Insights into the Role of Streptomyces hydrogenans as the Plant Growth Promoter, Photosynthetic Pigment Enhancer and Biocontrol Agent against Meloidogyne incognita in Solanum lycopersicum Seedlings. Plants, 2020, 9, 1109.	1.6	28
111	Multivariate Statistical Approach to Study Spatiotemporal Variations in Water Quality of aHimalayan Urban Fresh Water Lake. Water (Switzerland), 2020, 12, 2365.	1.2	12
112	Boxâ€“Behnken Response Surface Design of Polysaccharide Extraction from Rhododendron arboreum and the Evaluation of Its Antioxidant Potential. Molecules, 2020, 25, 3835.	1.7	38
113	Mechanisms Underlying Graft Union Formation and Rootstock Scion Interaction in Horticultural Plants. Frontiers in Plant Science, 2020, 11, 590847.	1.7	73
114	Influence of Nitrogen Management Regimes on Milling Recovery and Grain Quality of Aromatic Rice in Different Rice Production Systems. Agronomy, 2020, 10, 1841.	1.3	14
115	Zinc-Induced Effects on Productivity, Zinc Use Efficiency, and Grain Biofortification of Bread Wheat under Different Tillage Permutations. Agronomy, 2020, 10, 1566.	1.3	41
116	Ecotoxicological Effects of Ibuprofen on Plant Growth of Vigna unguiculata L.. Plants, 2020, 9, 1473.	1.6	21
117	Zingerone [4-(3-Methoxy-4-hydroxyphenyl)-butan-2] Attenuates Lipopolysaccharide-Induced Inflammation and Protects Rats from Sepsis Associated Multi Organ Damage. Molecules, 2020, 25, 5127.	1.7	14
118	Covid-19 Pandemic and Current Medical Interventions. Archives of Medical Research, 2020, 51, 473-481.	1.5	11
119	Cyperus laevigatus L. Enhances Diesel Oil Remediation in Synergism with Bacterial Inoculation in Floating Treatment Wetlands. Sustainability, 2020, 12, 2353.	1.6	15
120	Silicon is dependent on hydrogen sulphide to improve boron toxicity tolerance in pepper plants by regulating the AsA-GSH cycle and glyoxalase system. Chemosphere, 2020, 257, 127241.	4.2	44
121	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. Journal of Hazardous Materials, 2020, 398, 122882.	6.5	213
122	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. Journal of Hazardous Materials, 2020, 399, 123020.	6.5	160
123	Jasmonic acid and methyl jasmonate modulate growth, photosynthetic activity and expression of photosystem II subunit genes in Brassica oleracea L. Scientific Reports, 2020, 10, 9322.	1.6	57
124	24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbateâ€“Glutathione and Glyoxalase Cycles. Journal of Plant Growth Regulation, 2020, 39, 1587-1604.	2.8	59
125	Design of expert guided investigation of native L-asparaginase encapsulated long-acting cross-linker-free poly (lactic-co-glycolic) acid nanoformulation in an Ehrlich ascites tumor model. Saudi Pharmaceutical Journal, 2020, 28, 719-728.	1.2	9
126	Micropropagation and Production of Health Promoting Lignans in Linum usitatissimum. Plants, 2020, 9, 728.	1.6	20

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127	Rapid colorimetric and spectroscopy based sensing of mercury by surface functionalized silver nanoparticles in the presence of tyrosine. Optics Communications, 2020, 464, 125512.	1.0	23
128	Extraction and purification of an antimicrobial bioactive element from lichen associated Streptomyces olivaceus LEP7 against wound inhabiting microbial pathogens. Journal of King Saud University - Science, 2020, 32, 2009-2015.	1.6	12
129	Enhanced production antibiotics using green gram husk medium by Streptomyces sp. SD1 using response surface methodology. Journal of King Saud University - Science, 2020, 32, 2134-2141.	1.6	17
130	Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. Plants, 2020, 9, 380.	1.6	20
131	Neuroprotective Effects of Dried Tubers of Aconitum napellus. Plants, 2020, 9, 356.	1.6	9
132	Zinc Oxide Nanoparticles Application Alleviates Arsenic (As) Toxicity in Soybean Plants by Restricting the Uptake of as and Modulating Key Biochemical Attributes, Antioxidant Enzymes, Ascorbate-Glutathione Cycle and Glyoxalase System. Plants, 2020, 9, 825.	1.6	165
133	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. Journal of Experimental Botany, 2020, 71, 6758-6774.	2.4	107
134	Covidâ€19 and thymoquinone: Connecting the dots. Phytotherapy Research, 2020, 34, 2786-2789.	2.8	34
135	Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (Carthamus tinctorious L.). Plants, 2020, 9, 104.	1.6	88
136	Photocatalytic degradation of an organic dye using Ag doped ZrO2 nanoparticles: Milk powder facilitated eco-friendly synthesis. Journal of King Saud University - Science, 2020, 32, 1872-1878.	1.6	62
137	Antioxidant, Antimicrobial, Antidiabetic and Cytotoxic Activity of Crocus sativus L. Petals. Applied Sciences (Switzerland), 2020, 10, 1519.	1.3	22
138	Impact of ethanolic extract of Equisetum arvense (EA1) on pancreatic carcinoma AsPC-1 cells. Saudi Journal of Biological Sciences, 2020, 27, 1260-1264.	1.8	8
139	Physiological, Biochemical and Reproductive Studies on Valeriana wallichii, a Critically Endangered Medicinal Plant of the Himalayan Region Grown under In-Situ and Ex-Situ Conditions. Plants, 2020, 9, 131.	1.6	4
140	Crocus sativus L. Extract Containing Polyphenols Modulates Oxidative Stress and Inflammatory Response against Anti-Tuberculosis Drugs-Induced Liver Injury. Plants, 2020, 9, 167.	1.6	17
141	In-vitro antioxidant, antimutagenic and cancer cell growth inhibition activities of Rhododendron arboreum leaves and flowers. Saudi Journal of Biological Sciences, 2020, 27, 1788-1796.	1.8	23
142	Combined Kinetin and Spermidine Treatments Ameliorate Growth and Photosynthetic Inhibition in Vigna angularis by Up-Regulating Antioxidant and Nitrogen Metabolism under Cadmium Stress. Biomolecules, 2020, 10, 147.	1.8	74
143	Effect of Rhododendron arboreum Leaf Extract on the Antioxidant Defense System against Chromium (VI) Stress in Vigna radiata Plants. Plants, 2020, 9, 164.	1.6	21
144	Genetic transformation of Sr22 gene in a high yielding susceptible cultivar of commercial wheat (Triticum aestivum L.). 3 Biotech, 2020, 10, 197.	1.1	2

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145	The role of nitrate reductase in brassinosteroid-induced endogenous nitric oxide generation to improve cadmium stress tolerance of pepper plants by upregulating the ascorbate-glutathione cycle. Ecotoxicology and Environmental Safety, 2020, 196, 110483.	2.9	84
146	Nitrate reductase rather than nitric oxide synthase activity is involved in 24-epibrassinolide-induced nitric oxide synthesis to improve tolerance to iron deficiency in strawberry (Fragaria Ã— annassa) by up-regulating the ascorbate-glutathione cycle. Plant Physiology and Biochemistry, 2020, 151, 486-499.	2.8	35
147	Biological Efficacy of Essential Oils and Plant Extracts of Cultivated and Wild Ecotypes of Origanum vulgare L.. BioMed Research International, 2020, 2020, 1-16.	0.9	20
148	Sulfur-enriched leonardite and humic acid soil amendments enhance tolerance to drought and phosphorus deficiency stress in maize (Zea mays L.). Scientific Reports, 2020, 10, 6432.	1.6	95
149	Impact of drought and heat stress individually and in combination on physio-biochemical parameters, antioxidant responses, and gene expression in Solanum lycopersicum. 3 Biotech, 2020, 10, 208.	1.1	144
150	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (Capsicum annuum L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. Journal of Biotechnology, 2020, 316, 35-45.	1.9	82
151	Fertilizer adaptive bacteria Acidovorax valerianellae and Sinorhizobium fredii in integrated nutrient management of pigeon pea (Cajanus cajan L.). South African Journal of Botany, 2020, 134, 84-90.	1.2	4
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