

# Shafaqat Ali

## List of Publications by Year in descending order

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523  
papers

33,452  
citations

3149

92  
h-index

7718

150  
g-index

538  
all docs

538  
docs citations

538  
times ranked

17227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress on the heavy metals ameliorating potential of engineered nanomaterials in rice paddy: a comprehensive outlook on global food safety with nanotoxicity issues. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 2672-2686.	5.4	15
2	Salinity mitigates cadmium-induced phytotoxicity in quinoa ( <i>Chenopodium quinoa</i> Willd.) by limiting the Cd uptake and improved responses to oxidative stress: implications for phytoremediation. <i>Environmental Geochemistry and Health</i> , 2023, 45, 171-185.	1.8	19
3	Individual and Synergic Effects of Phosphorus and Gibberellic Acid on Organic Acids Exudation Pattern, Ultra-Structure of Chloroplast and Stress Response Gene Expression in Cu-Stressed Jute ( <i>Corchorus Capsularis</i> L.). <i>Journal of Plant Growth Regulation</i> , 2023, 42, 1186-1211.	2.8	7
4	Floating Treatment Wetlands (FTWs) is an Innovative Approach for the Remediation of Petroleum Hydrocarbons-Contaminated Water. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 1402-1420.	2.8	10
5	Silicon Enhances Morpho-Physio-Biochemical Responses in Arsenic Stressed Spinach ( <i>Spinacia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 21	2.8	21
6	Chromium (VI)-Induced Leaf-Based Differential Physiological, Metabolic and Microstructural Changes in Two Transgenic Cotton Cultivars (J208, Z905) and Their Hybrid Line (ZD14). <i>Journal of Plant Growth Regulation</i> , 2022, 41, 391-403.	2.8	7
7	Choline Chloride Mediates Chromium Tolerance in Spinach ( <i>Spinacia oleracea</i> L.) by Restricting its Uptake in Relation to Morpho-physio-biochemical Attributes. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1594-1614.	2.8	32
8	Application of bio and chemical fertilizers improves yield, and essential oil quantity and quality of Moldavian balm ( <i>Dracocephalum moldavica</i> L.) intercropped with mung bean ( <i>Vigna</i> ) Tj ETQq0 0 0 rgBT /Overlock 30 Tf 50 45	2.8	45
9	Green molybdenum nanoparticles-mediated bio-stimulation of <i>Bacillus</i> sp. strain ZH16 improved the wheat growth by managing in planta nutrients supply, ionic homeostasis and arsenic accumulation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127024.	6.5	27
10	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. <i>Journal of Hazardous Materials</i> , 2022, 421, 126729.	6.5	100
11	Foliar application of silica sol alleviates boron toxicity in rice ( <i>Oryza sativa</i> ) seedlings. <i>Journal of Hazardous Materials</i> , 2022, 423, 127175.	6.5	18
12	Heavy metal remediation and resistance mechanism of <i>Aeromonas</i> , <i>Bacillus</i> , and <i>Pseudomonas</i> : A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1868-1914.	6.6	71
13	Alleviating lead-induced phytotoxicity and enhancing the phytoremediation of castor bean ( <i>Ricinus</i> ) antioxidants, gas exchange and lead uptake. <i>International Journal of Phytoremediation</i> , 2022, 24, 933-944.	1.7	8
14	Combined application of zinc and iron-lysine and its effects on morpho-physiological traits, antioxidant capacity and chromium uptake in rapeseed ( <i>Brassica napus</i> L.). <i>PLoS ONE</i> , 2022, 17, e0262140.	1.1	37
15	Physiological and biochemical characterization of Kalongi ( <i>Nigella sativa</i> ) against arsenic stress: Implications for human health risk assessment. <i>Environmental Pollution</i> , 2022, 298, 118829.	3.7	4
16	Silicon Fertigation Regimes Attenuates Cadmium Toxicity and Phytoremediation Potential in Two Maize ( <i>Zea mays</i> L.) Cultivars by Minimizing Its Uptake and Oxidative Stress. <i>Sustainability</i> , 2022, 14, 1462.	1.6	35
17	<i>Bacillus mycoides</i> PM35 Reinforces Photosynthetic Efficiency, Antioxidant Defense, Expression of Stress-Responsive Genes, and Ameliorates the Effects of Salinity Stress in Maize. <i>Life</i> , 2022, 12, 219.	1.1	67
18	S-Fertilizer (Elemental Sulfur) Improves the Phytoextraction of Cadmium through <i>Solanum nigrum</i> L.. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1655.	1.2	14

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19	Phosphorus Fertilizers Enhance the Phytoextraction of Cadmium through <i>Solanum nigrum</i> L.. <i>Plants</i> , 2022, 11, 236.	1.6	6
20	PGPR-Mediated Salt Tolerance in Maize by Modulating Plant Physiology, Antioxidant Defense, Compatible Solutes Accumulation and Bio-Surfactant Producing Genes. <i>Plants</i> , 2022, 11, 345.	1.6	118
21	Improving boron use efficiency via different application techniques for optimum production of good quality potato ( <i>Solanum tuberosum</i> L.) in alkaline soil. <i>PLoS ONE</i> , 2022, 17, e0259403.	1.1	7
22	Chromium-resistant <i>Staphylococcus aureus</i> alleviates chromium toxicity by developing synergistic relationships with zinc oxide nanoparticles in wheat. <i>Ecotoxicology and Environmental Safety</i> , 2022, 230, 113142.	2.9	79
23	Rice straw biochar in combination with farmyard manure mitigates bromoxynil toxicity in wheat ( <i>Triticum aestivum</i> L.). <i>Chemosphere</i> , 2022, 295, 133854.	4.2	2
24	Zinc fortification and alleviation of cadmium stress by application of lysine chelated zinc on different varieties of wheat and rice in cadmium stressed soil. <i>Chemosphere</i> , 2022, 295, 133829.	4.2	27
25	Fertigation with Zn-Lysine Confers Better Photosynthetic Efficiency and Yield in Water Stressed Maize: Water Relations, Antioxidative Defense Mechanism and Nutrient Acquisition. <i>Plants</i> , 2022, 11, 404.	1.6	7
26	A new technique for reducing accumulation, transport, and toxicity of heavy metals in wheat ( <i>Triticum aestivum</i> L.) by bio-filtration of river wastewater. <i>Chemosphere</i> , 2022, 294, 133642.	4.2	13
27	Water Deficit Stress Tolerance Potential of Newly Developed Wheat Genotypes for Better Yield Based on Agronomic Traits and Stress Tolerance Indices: Physio-Biochemical Responses, Lipid Peroxidation and Antioxidative Defense Mechanism. <i>Plants</i> , 2022, 11, 466.	1.6	8
28	Taurine modulates dynamics of oxidative defense, secondary metabolism, and nutrient relation to mitigate boron and chromium toxicity in <i>Triticum aestivum</i> L. plants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 45527-45548.	2.7	30
29	Spatial variations in the biochemical potential of okra [ <i>Abelmoschus esculentus</i> L. (Moench)] leaf and fruit under field conditions. <i>PLoS ONE</i> , 2022, 17, e0259520.	1.1	10
30	Increase in Food Scarcity, Agricultural Challenges, and Their Management: Pakistan Perspectives. , 2022, , 437-458.		4
31	Evaluation of the Efficacy, Biocompatibility, and Permeation of Bupivacaine-Loaded Poly(epsilon-caprolactone) Nano-Capsules as an Anesthetic. <i>Journal of Biomedical Nanotechnology</i> , 2022, 18, 268-276.	0.5	3
32	Exogenous Caffeine (1,3,7-Trimethylxanthine) Application Diminishes Cadmium Toxicity by Modulating Physio-Biochemical Attributes and Improving the Growth of Spinach ( <i>Spinacia oleracea</i> L.). <i>Sustainability</i> , 2022, 14, 2806.	1.6	9
33	Application of Potassium along with Nitrogen under Varied Moisture Regimes Improves Performance and Nitrogen-Use Efficiency of High- and Low-Potassium Efficiency Cotton Cultivars. <i>Agronomy</i> , 2022, 12, 502.	1.3	9
34	Combined Role of Fe Nanoparticles (Fe NPs) and <i>Staphylococcus aureus</i> L. in the Alleviation of Chromium Stress in Rice Plants. <i>Life</i> , 2022, 12, 338.	1.1	17
35	Green and eco-friendly synthesis of TiO <sub>2</sub> nanoparticles and their application for removal of cadmium from wastewater: reaction kinetics study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2022, 236, 637-657.	1.4	12
36	Variation in the Primary and Secondary Metabolites, Antioxidant and Antibacterial Potentials of Tomatoes, Grown in Soil Blended with Different Concentration of Fly Ash. <i>Plants</i> , 2022, 11, 551.	1.6	6

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37	Antifungal activity of Zinc nitrate derived nano ZnO fungicide synthesized from <i>Trachyspermum ammi</i> to control fruit rot disease of grapefruit. <i>Ecotoxicology and Environmental Safety</i> , 2022, 233, 113311.	2.9	28
38	Robust Profiling of Cytochrome P450s (P450ome) in Notable <i>Aspergillus</i> spp.. <i>Life</i> , 2022, 12, 451.	1.1	17
39	Quantifying Temperature and Osmotic Stress Impact on Seed Germination Rate and Seedling Growth of <i>Eruca sativa</i> Mill. via Hydrothermal Time Model. <i>Life</i> , 2022, 12, 400.	1.1	9
40	Modelling Climate Uncertainty and Adaptations for Soybean-Based Cropping System. <i>International Journal of Plant Production</i> , 2022, 16, 235-250.	1.0	10
41	Calcium Oxide Nanoparticles Have the Role of Alleviating Arsenic Toxicity of Barley. <i>Frontiers in Plant Science</i> , 2022, 13, 843795.	1.7	27
42	Alleviation of drought stress by root-applied thiourea is related to elevated photosynthetic pigments, osmoprotectants, antioxidant enzymes, and tubers yield and suppressed oxidative stress in potatoes cultivars. <i>PeerJ</i> , 2022, 10, e13121.	0.9	7
43	Abandoned agriculture soil can be recultivated by promoting biological phosphorus fertility when amended with nano-rock phosphate and suitable bacterial inoculant. <i>Ecotoxicology and Environmental Safety</i> , 2022, 234, 113385.	2.9	13
44	Microbe-citric acid assisted phytoremediation of chromium by castor bean ( <i>Ricinus communis</i> L.). <i>Chemosphere</i> , 2022, 296, 134065.	4.2	11
45	Combined effects of green manure and zinc oxide nanoparticles on cadmium uptake by wheat ( <i>Triticum</i> ) Tj ETQq1 1 0.784314 rgBT / 4.2 15	4.2	15
46	Green synthesis and characterization of silver nanoparticles from <i>Acacia nilotica</i> and their anticancer, antidiabetic and antioxidant efficacy. <i>Environmental Pollution</i> , 2022, 304, 119249.	3.7	29
47	Electro-Oxidation of Metal Oxide-Fabricated Graphitic Carbon Nitride for Hydrogen Production via Water Splitting. <i>Coatings</i> , 2022, 12, 548.	1.2	4
48	A Novel Distachionate from <i>Breynia distachia</i> Treats Inflammations by Modulating COX-2 and Inflammatory Cytokines in Rat Liver Tissue. <i>Molecules</i> , 2022, 27, 2596.	1.7	19
49	Potential of nanocomposites of zero valent copper and magnetite with <i>Eleocharis dulcis</i> biochar for packed column and batch scale removal of Congo red dye. <i>Environmental Pollution</i> , 2022, 305, 119291.	3.7	11
50	Towards achieving eco-efficiency in top 10 polluted countries: The role of green technology and natural resource rents. <i>Gondwana Research</i> , 2022, 110, 114-127.	3.0	96
51	Foliar spray of silicon nanoparticles improved the growth and minimized cadmium (Cd) in wheat under combined Cd and water-limited stress. <i>Environmental Science and Pollution Research</i> , 2022, 29, 77321-77332.	2.7	16
52	Microwave Irradiation and Glutamic Acid-Assisted Phytotreatment of Textile and Surgical Industrial Wastewater by Sorghum. <i>Molecules</i> , 2022, 27, 4004.	1.7	3
53	Phytoremediation of contaminated industrial wastewater by duckweed ( <i>Lemna minor</i> L.): Growth and physiological response under acetic acid application. <i>Chemosphere</i> , 2022, 304, 135262.	4.2	11
54	Photocatalytic degradation of some dyes under solar light irradiation using ZnO nanoparticles synthesized from <i>Rosmarinus officinalis</i> extract. <i>Green Chemistry Letters and Reviews</i> , 2022, 15, 460-473.	2.1	31

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55	Green Synthesis of Silver Nanoparticles Using <i>Thespesia populnea</i> Bark Extract for Efficient Removal of Methylene Blue (MB) Degradation via Photocatalysis with Antimicrobial Activity and for Anticancer Activity. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-12.	1.8	7
56	Effect of different seed priming agents on chromium accumulation, oxidative defense, glyoxalase system and mineral nutrition in canola ( <i>Brassica napus</i> L.) cultivars. <i>Environmental Pollution</i> , 2022, 309, 119769.	3.7	15
57	Potential of Fish Scale Biochar Nanocomposite with ZnO for Effective Sequestration of Cr (VI) from Water: Modeling and Kinetics. <i>International Journal of Environmental Research</i> , 2022, 16, .	1.1	3
58	Exogenous calcium oxide nanoparticles alleviate cadmium toxicity by reducing Cd uptake and enhancing antioxidative capacity in barley seedlings. <i>Journal of Hazardous Materials</i> , 2022, 438, 129498.	6.5	29
59	Zn alleviated salt toxicity in <i>Solanum lycopersicum</i> L. seedlings by reducing Na <sup>+</sup> transfer, improving gas exchange, defense system and Zn contents. <i>Plant Physiology and Biochemistry</i> , 2022, 186, 52-63.	2.8	11
60	Temperature self-regulating flat electric heaters based on MWCNTs-modified polymers. <i>Polymer Bulletin</i> , 2021, 78, 6689-6703.	1.7	9
61	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2531-2566.	6.6	50
62	Beneficial role of <i>Azolla</i> sp. in paddy soils and their use as bioremediators in polluted aqueous environments: implications and future perspectives. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 1242-1255.	1.3	18
63	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability. <i>Journal of Hazardous Materials</i> , 2021, 401, 123338.	6.5	112
64	Boron supply alleviates cadmium toxicity in rice ( <i>Oryza sativa</i> L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. <i>Chemosphere</i> , 2021, 266, 128938.	4.2	68
65	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato ( <i>Solanum lycopersicum</i> L.) by minimizing cobalt uptake. <i>Chemosphere</i> , 2021, 263, 128169.	4.2	88
66	Exogenous abscisic acid and jasmonic acid restrain polyethylene glycol-induced drought by improving the growth and antioxidative enzyme activities in pearl millet. <i>Physiologia Plantarum</i> , 2021, 172, 809-819.	2.6	59
67	Dopamine Alleviates Hydrocarbon Stress in <i>Brassica oleracea</i> through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems. <i>Chemosphere</i> , 2021, 270, 128633.	4.2	27
68	Effects of epibrassinolide on plant growth, antioxidants defense system, and endogenous hormones in two wheat varieties under drought stress. <i>Physiologia Plantarum</i> , 2021, 172, 696-706.	2.6	89
69	Silicon mediated improvement in the growth and ion homeostasis by decreasing Na <sup>+</sup> uptake in maize ( <i>Zea mays</i> L.) cultivars exposed to salinity stress. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 208-218.	2.8	93
70	Charge storage in binder-free 2D-hexagonal CoMoO <sub>4</sub> nanosheets as a redox active material for pseudocapacitors. <i>Ceramics International</i> , 2021, 47, 8659-8667.	2.3	99
71	Nanocomposites of sedimentary material with ZnO and magnetite for the effective sequestration of arsenic from aqueous systems: Reusability, modeling and kinetics. <i>Environmental Technology and Innovation</i> , 2021, 21, 101298.	3.0	16
72	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytic degradation of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104877.	3.3	145

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73	Combined effect of Bacillus fortis IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in Cucumis melo. Plant Physiology and Biochemistry, 2021, 158, 1-12.	2.8	58
74	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO <sub>2</sub> gas-sensing applications. Materials Research Bulletin, 2021, 136, 111133.	2.7	85
75	Effect of alkaline and chemically engineered biochar on soil properties and phosphorus bioavailability in maize. Chemosphere, 2021, 266, 128980.	4.2	19
76	Silver nanoparticles improved the plant growth and reduced the sodium and chlorine accumulation in pearl millet: a life cycle study. Environmental Science and Pollution Research, 2021, 28, 13712-13724.	2.7	48
77	Foliar exposure of zinc oxide nanoparticles improved the growth of wheat (Triticum aestivum L.) and decreased cadmium concentration in grains under simultaneous Cd and water deficient stress. Ecotoxicology and Environmental Safety, 2021, 208, 111627.	2.9	154
78	Efficacy of Duckweeds for Phytoremediation: Morpho-Physiological and Biochemical Alterations. , 2021, , 345-359.		0
79	Application of ferrous sulfate alleviates negative impact of cadmium in rice (Oryza sativa L.). Biocell, 2021, 45, 1631-1649.	0.4	18
80	Effect of biochar and compost on cadmium bioavailability and its uptake by wheatâ€“rice cropping system irrigated with untreated sewage water: a field study. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	19
81	A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. Processes, 2021, 9, 137.	1.3	67
82	Pesticides in Drinking Waterâ€“A Review. International Journal of Environmental Research and Public Health, 2021, 18, 468.	1.2	271
83	Energy Storage Applications of CdMoO <sub>4</sub> Microspheres. Jom, 2021, 73, 1546-1551.	0.9	6
84	Metals Phytoextraction by Brassica Species. , 2021, , 361-384.		2
85	Heavy Metals Induced Physiological and Biochemical Changes in Fenugreek (Trigonella) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		1
86	Selective Removal of Hexavalent Chromium from Wastewater by Rice Husk: Kinetic, Isotherm and Spectroscopic Investigation. Water (Switzerland), 2021, 13, 263.	1.2	32
87	Impact of Climate Warming on Cotton Growth and Yields in China and Pakistan: A Regional Perspective. Agriculture (Switzerland), 2021, 11, 97.	1.4	29
88	Effects of Cr <sub>2</sub> O <sub>3</sub> Content on Microstructure and Mechanical Properties of Al <sub>2</sub> O <sub>3</sub> Matrix Composites. Coatings, 2021, 11, 234.	1.2	48
89	Elucidating Cd-mediated distinct rhizospheric and in planta ionic and physio-biochemical responses of two contrasting Zea mays L. cultivars. Physiology and Molecular Biology of Plants, 2021, 27, 297-312.	1.4	12
90	Influence of Tillage Systems and Cerealsâ€“Legume Mixture on Fodder Yield, Quality and Net Returns under Rainfed Conditions. Sustainability, 2021, 13, 2172.	1.6	15

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91	Effects of biochar, farm manure, and pressmud on mineral nutrients and cadmium availability to wheat ( <i>Triticum aestivum</i> L.) in Cd-contaminated soil. <i>Physiologia Plantarum</i> , 2021, 173, 191-200.	2.6	7
92	Investigation of Lithium Application and Effect of Organic Matter on Soil Health. <i>Sustainability</i> , 2021, 13, 1705.	1.6	15
93	Effective sequestration of Congo red dye with ZnO/cotton stalks biochar nanocomposite: MODELING, reusability and stability. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101176.	2.4	44
94	Electro-Oxidation of Ammonia at Novel Ag <sub>2</sub> O/PrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Coatings</i> , 2021, 11, 257.	1.2	33
95	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. <i>Physiologia Plantarum</i> , 2021, 172, 1269-1290.	2.6	61
96	Effect of potassium permanganate on morphological, structural and electro-optical properties of graphene oxide thin films. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102953.	2.3	36
97	The Sewage Sludge Biochar and Its Composts Influence the Phosphate Sorption in an Alkaline-Calcareous Soil. <i>Sustainability</i> , 2021, 13, 1779.	1.6	3
98	Paclobutrazol Improves Sesame Yield by Increasing Dry Matter Accumulation and Reducing Seed Shattering Under Rainfed Conditions. <i>International Journal of Plant Production</i> , 2021, 15, 337-349.	1.0	16
99	Compact maize canopy improves radiation use efficiency and grain yield of maize/soybean relay intercropping system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41135-41148.	2.7	20
100	Synthesis and Characterization of Na-Zeolites from Textile Waste Ash and Its Application for Removal of Lead (Pb) from Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3373.	1.2	18
101	Seed Treatment with $\alpha$ -Tocopherol Regulates Growth and Key Physio-Biochemical Attributes in Carrot ( <i>Daucus carota</i> L.) Plants under Water Limited Regimes. <i>Agronomy</i> , 2021, 11, 469.	1.3	34
102	Performance of Spring and Summer-Sown Maize under Different Irrigation Strategies in Pakistan. <i>Sustainability</i> , 2021, 13, 2757.	1.6	1
103	Foliar application of ascorbic acid enhances salinity stress tolerance in barley ( <i>Hordeum vulgare</i> L.) through modulation of morpho-physio-biochemical attributes, ions uptake, osmo-protectants and stress response genes expression. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 4276-4290.	1.8	67
104	Menadione sodium bisulfite alleviated chromium effects on wheat by regulating oxidative defense, chromium speciation, and ion homeostasis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36205-36225.	2.7	26
105	Mechanochemical Functionalization of Mesoporous Carbons for the Catalytic Transformation of <i>trans</i> -Ferulic Acid into Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4704-4710.	3.2	5
106	Effect of three different types of biochars on eco-physiological response of important agroforestry tree species under salt stress. <i>International Journal of Phytoremediation</i> , 2021, 23, 1412-1422.	1.7	5
107	Synthesis and Characterization of CeO <sub>2</sub> /CuO Nanocomposites for Photocatalytic Degradation of Methylene Blue in Visible Light. <i>Coatings</i> , 2021, 11, 305.	1.2	29
108	Evaluating the Effects of Biochar with Farmyard Manure under Optimal Mineral Fertilizing on Tomato Growth, Soil Organic C and Biochemical Quality in a Low Fertility Soil. <i>Sustainability</i> , 2021, 13, 2652.	1.6	13

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109	Surface charge on chitosan/cellulose nanowhiskers composite via functionalized and untreated carbon nanotube. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103022.	2.3	29
110	Silicon Application Modulates Growth, Physio-Chemicals, and Antioxidants in Wheat ( <i>Triticum</i> )	0.7	17
111	Improving Water Use Efficiency through Reduced Irrigation for Sustainable Cotton Production. <i>Sustainability</i> , 2021, 13, 4044.	1.6	6
112	Phytoextraction of Lead Using a Hedge Plant [ <i>Alternanthera bettzickiana</i> (Regel) G. Nicholson]: Physiological and Biochemical Alterations through Bioresource Management. <i>Sustainability</i> , 2021, 13, 5074.	1.6	13
113	Combined Citric Acid and Glutathione Augments Lead (Pb) Stress Tolerance and Phytoremediation of Castorbean through Antioxidant Machinery and Pb Uptake. <i>Sustainability</i> , 2021, 13, 4073.	1.6	20
114	TiO <sub>2</sub> nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice ( <i>Oryza sativa</i> L.), soil enzymatic activities and plant growth. <i>Ecotoxicology and Environmental Safety</i> , 2021, 213, 111977.	2.9	32
115	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 212, 111978.	2.9	186
116	Transcriptional Responses of <i>Fusarium graminearum</i> Interacted with Soybean to Cause Root Rot. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 422.	1.5	4
117	Seed Priming with Sodium Nitroprusside and H <sub>2</sub> O <sub>2</sub> Confers Better Yield in Wheat Under Salinity: Water Relations, Antioxidative Defense Mechanism and Ion Homeostasis. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2433-2453.	2.8	19
118	Menadione sodium bisulphite regulates physiological and biochemical responses to lessen salinity effects on wheat ( <i>Triticum aestivum</i> L.). <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 1135-1152.	1.4	11
119	Can sulphur improve the nutrient uptake, partitioning, and seed yield of sesame?. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	7
120	Weight Loss during Calcination and Sintering Process of Na <sub>0.5</sub> Bi <sub>0.5</sub> Ti <sub>0.3</sub> Bi <sub>1/2</sub> (Mg <sub>2/3</sub> Nb <sub>1/3</sub> )O <sub>3</sub> Composite Lead-Free Piezoelectric Ceramics. <i>Coatings</i> , 2021, 11, 676.	1.2	3
121	Optimizing Intercropping Systems of Black Cumin ( <i>Nigella sativa</i> L.) and Fenugreek ( <i>Trigonella foenum-graecum</i> L.) through Inoculation with Bacteria and Mycorrhizal Fungi. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000269.	2.7	16
122	Phosphate-lanthanum coated sewage sludge biochar improved the soil properties and growth of ryegrass in an alkaline soil. <i>Ecotoxicology and Environmental Safety</i> , 2021, 216, 112173.	2.9	21
123	Multi-element uptake and growth responses of Rice ( <i>Oryza sativa</i> L.) to TiO <sub>2</sub> nanoparticles applied in different textured soils. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112149.	2.9	23
124	Combined use of different nanoparticles effectively decreased cadmium (Cd) concentration in grains of wheat grown in a field contaminated with Cd. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112139.	2.9	46
125	Potassium ferrite nanoparticles on DAP to formulate slow release fertilizer with auxiliary nutrients. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112148.	2.9	18
126	Evaluating eco-efficiency in consumption and production through sustainable utilization of resources: A panel analysis of APAC by population. <i>Renewable Energy</i> , 2021, 170, 1096-1106.	4.3	12

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129	Deciphering <i>Plantago ovata</i> Forsk Leaf Extract Mediated Distinct Germination, Growth and Physio-Biochemical Improvements under Water Stress in Maize ( <i>Zea mays</i> L.) at Early Growth Stage. <i>Agronomy</i> , 2021, 11, 1404.	1.3	26
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133	Proximate Composition and Nutritive Value of Some Leafy Vegetables from Faisalabad, Pakistan. <i>Sustainability</i> , 2021, 13, 8444.	1.6	10
134	Diethyl Aminoethyl Hexanoate Priming Ameliorates Seed Germination via Involvement in Hormonal Changes, Osmotic Adjustment, and Dehydrins Accumulation in White Clover Under Drought Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 709187.	1.7	13
135	Risk Assessment of Heavy Metals in Basmati Rice: Implications for Public Health. <i>Sustainability</i> , 2021, 13, 8513.	1.6	37
136	Growth Rate, Dry Matter Accumulation, and Partitioning in Soybean ( <i>Glycine max</i> L.) in Response to Defoliation under High-Rainfall Conditions. <i>Plants</i> , 2021, 10, 1497.	1.6	5
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138	Evaluation of Compost and Biochar to Mitigate Chlorpyrifos Pollution in Soil and Their Effect on Soil Enzyme Dynamics. <i>Sustainability</i> , 2021, 13, 9695.	1.6	11
139	Quantitative Estimation of the Hydroquinone, Mercury and Total Plate Count in Skin-Lightening Creams. <i>Sustainability</i> , 2021, 13, 8786.	1.6	7
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142	Effect of gibberellic acid and titanium dioxide nanoparticles on growth, antioxidant defense system and mineral nutrient uptake in wheat. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112436.	2.9	24
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160	Efficacy of <i>Lemna minor</i> and <i>Typha latifolia</i> for the treatment of textile industry wastewater in a constructed wetland under citric acid amendment: A lab scale study. Chemosphere, 2021, 283, 131107.	4.2	7
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171	Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A way forward towards sustainable agriculture. <i>Ecotoxicology and Environmental Safety</i> , 2021, 227, 112888.	2.9	35
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173	Phenolic Profile, Nutritional Composition, Functional Properties, and Antioxidant Activity of Newly Grown Parthenocarpic and Normal Seeded Tomato. <i>Journal of Chemistry</i> , 2021, 2021, 1-11.	0.9	2
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178	IMPACT OF ENDEMICITY OF ASCARIASIS ON DIAGNOSIS OF ACUTE APPENDICITIS. <i>Pakistan Armed Forces Medical Journal</i> , 2021, 71, 1567-70.	0.0	0
179	Combined Application of Citric Acid and Cr Resistant Microbes Improved Castor Bean Growth and Photosynthesis while It Alleviated Cr Toxicity by Reducing Cr <sup>+6</sup> to Cr <sup>+3</sup> . <i>Microorganisms</i> , 2021, 9, 2499.	1.6	6
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183	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 456-480.	2.8	67
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185	Efficacy of <i>Zea mays</i> L. for the management of marble effluent contaminated soil under citric acid amendment; morpho-physiological and biochemical response. <i>Chemosphere</i> , 2020, 240, 124930.	4.2	31
186	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. <i>Chemosphere</i> , 2020, 238, 124681.	4.2	183
187	Seasonal variations of soil phosphorus and associated fertility indicators in wastewater-irrigated urban aridisol. <i>Chemosphere</i> , 2020, 239, 124725.	4.2	7
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194	Glycinebetaine alleviates the chromium toxicity in <i>Brassica oleracea</i> L. by suppressing oxidative stress and modulating the plant morphology and photosynthetic attributes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1101-1111.	2.7	72
195	Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat. <i>Chemosphere</i> , 2020, 244, 125548.	4.2	58
196	Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. <i>Chemosphere</i> , 2020, 244, 125481.	4.2	46
197	Application of co-composted farm manure and biochar increased the wheat growth and decreased cadmium accumulation in plants under different water regimes. <i>Chemosphere</i> , 2020, 246, 125809.	4.2	65
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200	Amelioration of salt induced toxicity in pearl millet by seed priming with silver nanoparticles (AgNPs): The oxidative damage, antioxidant enzymes and ions uptake are major determinants of salt tolerant capacity. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 221-232.	2.8	190
201	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8935-8964.	2.3	59
202	Electrochemical Oxygen Evolution Reaction Activity of Tin Sulfide Nanostructures. <i>ChemistrySelect</i> , 2020, 5, 11703-11707.	0.7	0
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204	Plant growth promoting rhizobacteria alleviates drought stress in potato in response to suppressive oxidative stress and antioxidant enzymes activities. <i>Scientific Reports</i> , 2020, 10, 16975.	1.6	179
205	Biofilm forming rhizobacteria enhance growth and salt tolerance in sunflower plants by stimulating antioxidant enzymes activity. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 242-256.	2.8	61
206	<i>Bacillus siamensis</i> Reduces Cadmium Accumulation and Improves Growth and Antioxidant Defense System in Two Wheat ( <i>Triticum aestivum</i> L.) Varieties. <i>Plants</i> , 2020, 9, 878.	1.6	61
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214	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. <i>Plants</i> , 2020, 9, 896.	1.6	84
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216	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. <i>Sustainability</i> , 2020, 12, 5559.	1.6	75

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218	Adsorption-reduction performance of tea waste and rice husk biochars for Cr(VI) elimination from wastewater. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 799-810.	2.4	66
219	Foliar Spray of Fe-Asp Confers Better Drought Tolerance in Sunflower as Compared with FeSO <sub>4</sub> : Yield Traits, Osmotic Adjustment, and Antioxidative Defense Mechanisms. <i>Biomolecules</i> , 2020, 10, 1217.	1.8	12
220	Î±-Tocopherol Foliar Spray and Translocation Mediates Growth, Photosynthetic Pigments, Nutrient Uptake, and Oxidative Defense in Maize ( <i>Zea mays</i> L.) under Drought Stress. <i>Agronomy</i> , 2020, 10, 1235.	1.3	25
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225	Physiological and Biochemical Bases of Foliar Silicon-Induced Alleviation of Cadmium Toxicity in Wheat. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 2714-2730.	1.7	37
226	Zinc-lysine Supplementation Mitigates Oxidative Stress in Rapeseed ( <i>Brassica napus</i> L.) by Preventing Phytotoxicity of Chromium, When Irrigated with Tannery Wastewater. <i>Plants</i> , 2020, 9, 1145.	1.6	53
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230	Peptone-Induced Physio-Biochemical Modulations Reduce Cadmium Toxicity and Accumulation in Spinach ( <i>Spinacia oleracea</i> L.). <i>Plants</i> , 2020, 9, 1806.	1.6	12
231	Integrated Nutrient Management Enhances Soil Quality and Crop Productivity in Maize-Based Cropping System. <i>Sustainability</i> , 2020, 12, 10214.	1.6	20
232	Glycinebetaine-Induced Alteration in Gaseous Exchange Capacity and Osmoprotective Phenomena in Safflower ( <i>Carthamus tinctorius</i> L.) under Water Deficit Conditions. <i>Sustainability</i> , 2020, 12, 10649.	1.6	29
233	Salicylic Acid Improves Boron Toxicity Tolerance by Modulating the Physio-Biochemical Characteristics of Maize ( <i>Zea mays</i> L.) at an Early Growth Stage. <i>Agronomy</i> , 2020, 10, 2013.	1.3	24
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236	Straw-based biochar mediated potassium availability and increased growth and yield of cotton ( <i>Gossypium hirsutum</i> L.). <i>Journal of Saudi Chemical Society</i> , 2020, 24, 963-973.	2.4	20
237	Calcium Plays a Double-Edged Role in Modulating Cadmium Uptake and Translocation in Rice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8058.	1.8	32
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240	Effect of biochars, biogenic, and inorganic amendments on dissolution and kinetic release of phytoavailable silicon in texturally different soils under submerged conditions. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	7
241	<i>Cyperus laevigatus</i> L. Enhances Diesel Oil Remediation in Synergism with Bacterial Inoculation in Floating Treatment Wetlands. <i>Sustainability</i> , 2020, 12, 2353.	1.6	15
242	Citric acid enhanced phytoextraction of nickel (Ni) and alleviate <i>Mentha piperita</i> (L.) from Ni-induced physiological and biochemical damages. <i>Environmental Science and Pollution Research</i> , 2020, 27, 27010-27022.	2.7	27
243	Accumulation potential and tolerance response of <i>Typha latifolia</i> L. under citric acid assisted phytoextraction of lead and mercury. <i>Chemosphere</i> , 2020, 257, 127247.	4.2	38
244	Molybdenum-induced effects on leaf ultra-structure and rhizosphere phosphorus transformation in <i>Triticum aestivum</i> L. <i>Plant Physiology and Biochemistry</i> , 2020, 153, 20-29.	2.8	19
245	Effective sequestration of Cr (VI) from wastewater using nanocomposite of ZnO with cotton stalks biochar: modeling, kinetics, and reusability. <i>Environmental Science and Pollution Research</i> , 2020, 27, 33821-33834.	2.7	27
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248	Uptake and utilization of nitrogen, phosphorus and potassium as related to yield advantage in maize-soybean intercropping under different row configurations. <i>Scientific Reports</i> , 2020, 10, 9504.	1.6	33
249	Physicochemical and Bacteriological Characterization of Industrial Wastewater Being Discharged to Surface Water Bodies: Significant Threat to Environmental Pollution and Human Health. <i>Journal of Chemistry</i> , 2020, 2020, 1-10.	0.9	21
250	Effect of acidified biochar on bioaccumulation of cadmium (Cd) and rice growth in contaminated soil. <i>Environmental Technology and Innovation</i> , 2020, 19, 101015.	3.0	44
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254	Efficacy of <i>Alternanthera bettzickiana</i> to Remediate Copper and Cobalt Contaminated Soil Physiological and Biochemical Alterations. <i>International Journal of Environmental Research</i> , 2020, 14, 243-255.	1.1	20
255	Efficacy of fenugreek plant for ascorbic acid assisted phytoextraction of copper (Cu); A detailed study of Cu induced morpho-physiological and biochemical alterations. <i>Chemosphere</i> , 2020, 251, 126424.	4.2	22
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257	Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. <i>Plants</i> , 2020, 9, 380.	1.6	20
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