

Muhammad Rizwan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4077650/muhammad-rizwan-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|--------------------|--------------------------|----------------|-----------------|
| 385 papers | 15,265 citations | 66 h-index | 108 g-index |
| 405 ext. papers | 20,620 ext. citations | 5.3 avg, IF | 7.27 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 385 | S-Fertilizer (Elemental Sulfur) Improves the Phytoextraction of Cadmium through L.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19, | 4.6 | 1 |
| 384 | Chromium-resistant Staphylococcus aureus alleviates chromium toxicity by developing synergistic relationships with zinc oxide nanoparticles in wheat.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 230, 113142 | 7 | 11 |
| 383 | Rice straw biochar in combination with farmyard manure mitigates bromoxynil toxicity in wheat (Triticum aestivum L.).. <i>Chemosphere</i> , 2022 , 295, 133854 | 8.4 | |
| 382 | 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 | 8.4 | 0 |
| 381 | A new technique for reducing accumulation, transport, and toxicity of heavy metals in wheat (Triticum aestivum L.) by bio-filtration of river wastewater.. <i>Chemosphere</i> , 2022 , 294, 133642 | 8.4 | 1 |
| 380 | The comparison of interstitial relative humidity and temperatures of hermetic and polypropylene bag for wheat grain storage under different agro-climatic conditions of rice-wheat ecosystem of Pakistan: Effect on seed quality and protection against insect pests. <i>Journal of Stored Products Research</i> , 2022 , 96, 101936 | 2.5 | 0 |
| 379 | Combined application of zinc and iron-lysine and its effects on morpho-physiological traits, antioxidant capacity and chromium uptake in rapeseed (Brassica napus L.).. <i>PLoS ONE</i> , 2022 , 17, e0262140 | 3.7 | 4 |
| 378 | Physiological and biochemical characterization of Kalongi (Nigella sativa) against arsenic stress: Implications for human health risk assessment.. <i>Environmental Pollution</i> , 2022 , 298, 118829 | 9.3 | 0 |
| 377 | Green molybdenum nanoparticles-mediated bio-stimulation of Bacillus 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 | 12.8 | 7 |
| 376 | Foliar application of silica sol alleviates boron toxicity in rice (Oryza sativa) seedlings. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127175 | 12.8 | 2 |
| 375 | Electroactive polymeric nanocomposite BC-g-(Fe3O4/GO) materials for bone tissue engineering: In-vitro evaluations.. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022 , 1-16 | 3.5 | 2 |
| 374 | Genome-Wide Expression and Physiological Profiling of Pearl Millet Genotype Reveal the Biological Pathways and Various Gene Clusters Underlying Salt Resistance.. <i>Frontiers in Plant Science</i> , 2022 , 13, 849618 | 6.2 | 0 |
| 373 | Determining the appropriate level of farmyard manure biochar application in saline soils for three selected farm tree species.. <i>PLoS ONE</i> , 2022 , 17, e0265005 | 3.7 | 1 |
| 372 | Microbe-citric acid assisted phytoremediation of chromium by castor bean (Ricinus communis L.).. <i>Chemosphere</i> , 2022 , 134065 | 8.4 | 1 |
| 371 | Combined effects of green manure and zinc oxide nanoparticles on cadmium uptake by wheat (Triticum aestivum L.).. <i>Chemosphere</i> , 2022 , 298, 134348 | 8.4 | 0 |
| 370 | Green synthesis and characterization of silver nanoparticles from Acacia nilotica and their anticancer, antidiabetic and antioxidant efficacy.. <i>Environmental Pollution</i> , 2022 , 304, 119249 | 9.3 | 0 |
| 369 | Wastewater Pollution, Types and Treatment Methods Assisted Different Amendments. A Review 2022 , 293-310 | | 0 |

| | | | |
|-----|---|-----|----|
| 368 | Efficacy of Various Amendments for the Phytomanagement of Heavy Metal Contaminated Sites and Sustainable Agriculture. A Review 2022 , 239-272 | | 0 |
| 367 | Potential of nanocomposites of zero valent copper and magnetite with Eleocharis dulcis biochar for packed column and batch scale removal of Congo red dye.. <i>Environmental Pollution</i> , 2022 , 305, 119291 | 9.3 | 0 |
| 366 | Nickel Toxicity Interferes with NO ₃ ⁻ /NH ₄ ⁺ Uptake and Nitrogen Metabolic Enzyme Activity in Rice (Oryza sativa L.). <i>Plants</i> , 2022 , 11, 1401 | 4.5 | 0 |
| 365 | Environmental and Health Effects of Heavy Metals and Their Treatment Methods. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022 , 143-175 | 0.5 | |
| 364 | nCOV-19 peptides mass fingerprinting identification, binding, and blocking of inhibitors flavonoids and anthraquinone of and hydroxychloroquine. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 4089-4099 | 3.6 | 17 |
| 363 | Combined Application of Citric Acid and Cr Resistant Microbes Improved Castor Bean Growth and Photosynthesis while It Alleviated Cr Toxicity by Reducing Cr to Cr ³⁺ . <i>Microorganisms</i> , 2021 , 9, | 4.9 | 2 |
| 362 | Kinetic model studies of controlled nutrient release and swelling behavior of combo hydrogel using Acer platanoides cellulose. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 131, 104137-104137 | 5.3 | 0 |
| 361 | Nondetrimental impact of two concomitant entomopathogenic fungi on life history parameters of a generalist predator, Coccinella septempunctata (Coleoptera: Coccinellidae). <i>Scientific Reports</i> , 2021 , 11, 20699 | 4.9 | 1 |
| 360 | Influence of calcium and magnesium elimination on plant biomass and secondary metabolites of Stevia rebaudiana Bertoni. <i>Biotechnology and Applied Biochemistry</i> , 2021 , | 2.8 | 2 |
| 359 | Alleviating lead-induced phytotoxicity and enhancing the phytoremediation of castor bean (L.) by glutathione application: new insights into the mechanisms regulating antioxidants, gas exchange and lead uptake. <i>International Journal of Phytoremediation</i> , 2021 , 1-12 | 3.9 | 2 |
| 358 | 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 | 7 | 3 |
| 357 | Edible mushroom (Flammulina velutipes) as biosource for silver nanoparticles: from synthesis to diverse biomedical and environmental applications. <i>Nanotechnology</i> , 2021 , 32, 065101 | 3.4 | 21 |
| 356 | 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, | 4.6 | 7 |
| 355 | Green Synthesis of Zinc Oxide (ZnO) Nanoparticles Using Aqueous Fruit Extracts of : Their Characterizations and Biological and Environmental Applications. <i>ACS Omega</i> , 2021 , 6, 9709-9722 | 3.9 | 55 |
| 354 | 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 | 5.1 | 8 |
| 353 | 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 | 3.9 | 1 |
| 352 | Synthesis, characterization, hydrolytic degradation, mathematical modeling and antibacterial activity of poly[bis((methoxyethoxy)ethoxy)phosphazene] (MEEP). <i>Polymer Bulletin</i> , 2021 , 78, 6059-6072 | 2.4 | 0 |
| 351 | 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 | 3.6 | 5 |

| | | | |
|-----|--|------|----|
| 350 | TiO 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 | 7 | 14 |
| 349 | Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 212, 111978 | 7 | 50 |
| 348 | Appraisal for organic amendments and plant growth-promoting rhizobacteria to enhance crop productivity under drought stress: A review. <i>Journal of Agronomy and Crop Science</i> , 2021 , 207, 783-802 | 3.9 | 11 |
| 347 | Menadione sodium bisulphite regulates physiological and biochemical responses to lessen salinity effects on wheat (L.). <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 1135-1152 | 2.8 | 3 |
| 346 | 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 | 7 | 6 |
| 345 | Multi-element uptake and growth responses of Rice (<i>Oryza sativa</i> L.) to TiO nanoparticles applied in different textured soils. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 215, 112149 | 7 | 9 |
| 344 | 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 | 7 | 15 |
| 343 | Cadmium uptake and translocation: selenium and silicon roles in Cd detoxification for the production of low Cd crops: a critical review. <i>Chemosphere</i> , 2021 , 273, 129690 | 8.4 | 36 |
| 342 | Assessment of early physiological and biochemical responses in chia (<i>Salvia hispanica</i> L.) sprouts under salt stress. <i>Acta Physiologiae Plantarum</i> , 2021 , 43, 1 | 2.6 | 1 |
| 341 | 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 | 2 | 7 |
| 340 | 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 | 12.8 | 54 |
| 339 | Synergistic effect of silicon and selenium on the alleviation of cadmium toxicity in rice plants. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123393 | 12.8 | 43 |
| 338 | 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 | 8.4 | 26 |
| 337 | Enhanced performance of OSR-3 in combination with putrescine ameliorated hydrocarbon stress in. <i>International Journal of Phytoremediation</i> , 2021 , 23, 119-129 | 3.9 | 10 |
| 336 | Lead (Pb)-resistant bacteria inhibit Pb accumulation in dill (<i>Anethum graveolens</i> L.) by improving biochemical, physiological, and antioxidant enzyme response of plants. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 5704-5713 | 5.1 | 3 |
| 335 | 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 | 8.4 | 38 |
| 334 | 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 | 4.6 | 23 |
| 333 | 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 | 8.4 | 12 |

| | | | |
|-----|--|-----|----|
| 332 | Effects of 24-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 | 4.6 | 37 |
| 331 | Silicon mediated improvement in the growth and ion homeostasis by decreasing Na uptake in maize (<i>Zea mays</i> L.) cultivars exposed to salinity stress. <i>Plant Physiology and Biochemistry</i> , 2021 , 158, 208-218 | 5.4 | 32 |
| 330 | 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 | 7 | 6 |
| 329 | Combined effect of <i>Bacillus fortis</i> IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in <i>Cucumis melo</i> . <i>Plant Physiology and Biochemistry</i> , 2021 , 158, 1-12 | 5.4 | 19 |
| 328 | Effect of alkaline and chemically engineered biochar on soil properties and phosphorus bioavailability in maize. <i>Chemosphere</i> , 2021 , 266, 128980 | 8.4 | 9 |
| 327 | Silver nanoparticles improved the plant growth and reduced the sodium and chlorine accumulation in pearl millet: a life cycle study. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 13712-13724 | 5.1 | 17 |
| 326 | Foliar exposure of zinc oxide nanoparticles improved the growth of wheat (<i>Triticum aestivum</i> L.) and decreased cadmium concentration in grains under simultaneous Cd and water deficient stress. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111627 | 7 | 50 |
| 325 | Foliar application of silicon nanoparticles affected the growth, vitamin C, flavonoid, and antioxidant enzyme activities of coriander (<i>Coriandrum sativum</i> L.) plants grown in lead (Pb)-spiked soil. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 1417-1425 | 5.1 | 38 |
| 324 | Effect of biochar and compost on cadmium bioavailability and its uptake by wheat-rice cropping system irrigated with untreated sewage water: a field study. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1 | 1.8 | 8 |
| 323 | A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. <i>Processes</i> , 2021 , 9, 137 | 2.9 | 26 |
| 322 | Alteration of plant physiology by the application of biochar for remediation of organic pollutants 2021 , 475-492 | | 2 |
| 321 | Metals Phytoextraction by Brassica Species 2021 , 361-384 | | 2 |
| 320 | Heavy Metals Induced Physiological and Biochemical Changes in Fenugreek (<i>Trigonella foenum-graceum</i> L.) 2021 , 239-258 | | |
| 319 | Selective Removal of Hexavalent Chromium from Wastewater by Rice Husk: Kinetic, Isotherm and Spectroscopic Investigation. <i>Water (Switzerland)</i> , 2021 , 13, 263 | 3 | 11 |
| 318 | Are Clay Minerals a Significant Source of Si for Crops? A Comparison of Amorphous Silica and the Roles of the Mineral Type and pH. <i>Silicon</i> , 2021 , 13, 3611-3618 | 2.4 | 4 |
| 317 | 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 | 4.6 | 2 |
| 316 | 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 | 4.3 | 22 |
| 315 | 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 | 4.6 | 16 |

| | | | |
|-----|---|------|----|
| 314 | The Sewage Sludge Biochar and Its Composts Influence the Phosphate Sorption in an Alkaline-Calcareous Soil. <i>Sustainability</i> , 2021 , 13, 1779 | 3.6 | 0 |
| 313 | Curcuma longa Mediated Synthesis of Copper Oxide, Nickel Oxide and Cu-Ni Bimetallic Hybrid Nanoparticles: Characterization and Evaluation for Antimicrobial, Anti-Parasitic and Cytotoxic Potentials. <i>Coatings</i> , 2021 , 11, 849 | 2.9 | 7 |
| 312 | Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125585 | 12.8 | 11 |
| 311 | Combined use of zinc nanoparticles and co-composted biochar enhanced wheat growth and decreased Cd concentration in grains under Cd and drought stress: A field study. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101518 | 7 | 6 |
| 310 | 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 | 7 | 8 |
| 309 | 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> , 2021 , 1-15 | 11.5 | 4 |
| 308 | Effects of nanoparticles on trace element uptake and toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 221, 112437 | 7 | 14 |
| 307 | 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> , 2021 , 1 | 4.7 | 3 |
| 306 | Silicon elevated cadmium tolerance in wheat (<i>Triticum aestivum</i> L.) by endorsing nutrients uptake and antioxidative defense mechanisms in the leaves. <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 148-154 | 5.4 | 7 |
| 305 | Cellulose supported magnetic nanohybrids: Synthesis, physicomagnetic properties and biomedical applications-A review. <i>Carbohydrate Polymers</i> , 2021 , 267, 118136 | 10.3 | 4 |
| 304 | Biochar composite with microbes enhanced arsenic biosorption and phytoextraction by <i>Typha latifolia</i> in hybrid vertical subsurface flow constructed wetland. <i>Environmental Pollution</i> , 2021 , 291, 118269 | 2.3 | 4 |
| 303 | Biochar mitigates arsenic-induced human health risks and phytotoxicity in quinoa under saline conditions by modulating ionic and oxidative stress responses. <i>Environmental Pollution</i> , 2021 , 287, 117348 | 8.3 | 10 |
| 302 | Biogenic and characterizations of new silver nanoparticles stabilized with indole acetic acid derived from <i>Azospirillum brasilense</i> MMGH-SADAT1, their bioactivity, and histopathological assessment in rats. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112521 | 7 | 1 |
| 301 | Recent advances in nanoparticles associated ecological harms and their biodegradation: Global environmental safety from nano-invaders. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106093 | 6.8 | 3 |
| 300 | Arsenic behavior in soil-plant system and its detoxification mechanisms in plants: A review. <i>Environmental Pollution</i> , 2021 , 286, 117389 | 9.3 | 13 |
| 299 | Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112510 | 7 | 27 |
| 298 | Boron application mitigates Cd toxicity in leaves of rice by subcellular distribution, cell wall adsorption and antioxidant system. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112540 | 7 | 4 |
| 297 | Biological synthesis, characterization of three metal-based nanoparticles and their anticancer activities against hepatocellular carcinoma HepG2 cells. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 223, 112575 | 7 | 4 |

| | | | |
|-----|---|-----|----|
| 296 | Host-pathogen interaction between Asian citrus psyllid and entomopathogenic fungus (<i>Cordyceps fumosorosea</i>) is regulated by modulations in gene expression, enzymatic activity and HLB-bacterial population of the host. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021 , 248, 109112 | 3.2 | 8 |
| 295 | Absciscic acid signaling reduced transpiration flow, regulated Na ⁺ ion homeostasis and antioxidant enzyme activities to induce salinity tolerance in wheat (<i>Triticum aestivum</i> L.) seedlings. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101808 | 7 | 7 |
| 294 | Cellulose extraction of <i>Alstonia scholaris</i> : A comparative study on efficiency of different bleaching reagents for its isolation and characterization. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 964-972 | 7.9 | 3 |
| 293 | 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. <i>Chemosphere</i> , 2021 , 283, 131107 | 8.4 | 2 |
| 292 | Green magnesium oxide nanoparticles-based modulation of cellular oxidative repair mechanisms to reduce arsenic uptake and translocation in rice (<i>Oryza sativa</i> L.) plants. <i>Environmental Pollution</i> , 2021 , 288, 117785 | 9.3 | 18 |
| 291 | Comparative efficacy of raw and HNO ₃ -modified biochar derived from rice straw on vanadium transformation and its uptake by rice (<i>Oryza sativa</i> L.): Insights from photosynthesis, antioxidative response, and gene-expression profile. <i>Environmental Pollution</i> , 2021 , 289, 117916 | 9.3 | 4 |
| 290 | Interactions of nanoparticles and salinity stress at physiological, biochemical and molecular levels in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 225, 112769 | 7 | 8 |
| 289 | Research advances and applications of biosensing technology for the diagnosis of pathogens in sustainable agriculture. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 9002-9019 | 5.1 | 21 |
| 288 | Surface water quality assessment of Skardu springs using Water Quality Index. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 20537-20548 | 5.1 | 10 |
| 287 | Remediation of organic pollutants by Brassica species 2021 , 689-700 | | 1 |
| 286 | Heavy Metals-Induced Morphophysiological and Biochemical Changes in <i>Mentha piperita</i> L. 2021 , 223-237 | | |
| 285 | Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. <i>Physiologia Plantarum</i> , 2020 , 168, 289-300 | 4.6 | 48 |
| 284 | 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 | 4.3 | 5 |
| 283 | Effect of biochar and phosphate solubilizing bacteria on growth and phosphorus uptake by maize in an Aridisol. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1 | 1.8 | 5 |
| 282 | 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 | 1.8 | 3 |
| 281 | 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 | 5.1 | 16 |
| 280 | Role of Nitric Oxide and Calcium Signaling in Abiotic Stress Tolerance in Plants 2020 , 563-581 | | 2 |
| 279 | 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 | 8.4 | 19 |

| | | | |
|-----|--|-----|-----|
| 278 | 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 | 5.1 | 12 |
| 277 | Effect of gibberellic acid on growth, biomass, and antioxidant defense system of wheat (<i>Triticum aestivum</i> L.) under cerium oxide nanoparticle stress. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 33809-33820 | 5.1 | 7 |
| 276 | Green remediation of saline-sodic Pb-factored soil by growing salt-tolerant rice cultivar along with soil applied inorganic amendments. <i>Paddy and Water Environment</i> , 2020 , 18, 637-649 | 1.6 | 3 |
| 275 | 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 | 2.3 | 5 |
| 274 | Effect of acidified biochar on bioaccumulation of cadmium (Cd) and rice growth in contaminated soil. <i>Environmental Technology and Innovation</i> , 2020 , 19, 101015 | 7 | 20 |
| 273 | Ethylenediaminetetraacetic Acid (EDTA) Mitigates the Toxic Effect of Excessive Copper Concentrations on Growth, Gaseous Exchange and Chloroplast Ultrastructure of L. and Improves Copper Accumulation Capabilities. <i>Plants</i> , 2020 , 9, | 4.5 | 32 |
| 272 | N-Fertilizer (Urea) Enhances the Phytoextraction of Cadmium through L. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17, | 4.6 | 7 |
| 271 | Synthesis and characterization of titanium dioxide nanoparticles by chemical and green methods and their antifungal activities against wheat rust. <i>Chemosphere</i> , 2020 , 258, 127352 | 8.4 | 49 |
| 270 | 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 | 8.4 | 14 |
| 269 | Engineered ZnO and CuO Nanoparticles Ameliorate Morphological and Biochemical Response in Tissue Culture Regenerants of Candy leaf (). <i>Molecules</i> , 2020 , 25, | 4.8 | 29 |
| 268 | Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. <i>Plants</i> , 2020 , 9, | 4.5 | 9 |
| 267 | Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. <i>Sustainability</i> , 2020 , 12, 1927 | 3.6 | 107 |
| 266 | Comparative evaluation of wheat straw and press mud biochars for Cr(VI) elimination from contaminated aqueous solution. <i>Environmental Technology and Innovation</i> , 2020 , 19, 101017 | 7 | 13 |
| 265 | Isolation and characterization of lead (Pb) resistant microbes and their combined use with silicon nanoparticles improved the growth, photosynthesis and antioxidant capacity of coriander (<i>Coriandrum sativum</i> L.) under Pb stress. <i>Environmental Pollution</i> , 2020 , 266, 114982 | 9.3 | 31 |
| 264 | Use of Nitric Oxide and Hydrogen Peroxide for Better Yield of Wheat (L.) under Water Deficit Conditions: Growth, Osmoregulation, and Antioxidative Defense Mechanism. <i>Plants</i> , 2020 , 9, | 4.5 | 44 |
| 263 | Jute: A Potential Candidate for Phytoremediation of Metals-A Review. <i>Plants</i> , 2020 , 9, | 4.5 | 60 |
| 262 | Chromium resistant microbes and melatonin reduced Cr uptake and toxicity, improved physio-biochemical traits and yield of wheat in contaminated soil. <i>Chemosphere</i> , 2020 , 250, 126239 | 8.4 | 39 |
| 261 | Effect of biochar modified with magnetite nanoparticles and HNO for efficient removal of Cr(VI) from contaminated water: A batch and column scale study. <i>Environmental Pollution</i> , 2020 , 261, 114231 | 9.3 | 58 |

| | | | |
|-----|---|-----|----|
| 260 | Influence of phosphorus on copper phytoextraction via modulating cellular organelles in two jute (<i>Corchorus capsularis</i> L.) varieties grown in a copper mining soil of Hubei Province, China. <i>Chemosphere</i> , 2020 , 248, 126032 | 8.4 | 82 |
| 259 | Dynamics of AB-DTPA-extractable Zn in high and low limed calcareous soils amended with biochar and farmyard and poultry manures. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1 | 1.8 | |
| 258 | Flax L.): A Potential Candidate for Phytoremediation? Biological and Economical Points of View. <i>Plants</i> , 2020 , 9, | 4.5 | 48 |
| 257 | Existence of the solution to second order differential equation through fixed point results for nonlinear F-contractions involving w0-distance. <i>Filomat</i> , 2020 , 34, 4079-4094 | 0.7 | |
| 256 | Influence of Metals and Metalloids on Microbial Diversity of Soil and Ecosystem 2020 , 95-111 | | |
| 255 | Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. <i>Sustainability</i> , 2020 , 12, 3731 | 3.6 | 21 |
| 254 | IronLysine Mediated Alleviation of Chromium Toxicity in Spinach (<i>Spinacia oleracea</i> L.) Plants in Relation to Morpho-Physiological Traits and Iron Uptake When Irrigated with Tannery Wastewater. <i>Sustainability</i> , 2020 , 12, 6690 | 3.6 | 23 |
| 253 | Fertigation of Ajwain (<i>Trachyspermum ammi</i> L.) with Fe-Glutamate Confers Better Plant Performance and Drought Tolerance in Comparison with FeSO ₄ . <i>Sustainability</i> , 2020 , 12, 7119 | 3.6 | 5 |
| 252 | In Situ Phytoremediation of Metals. <i>Concepts and Strategies in Plant Sciences</i> , 2020 , 103-121 | 0.5 | 2 |
| 251 | Effect of Nanoparticles on Plant Growth and Physiology and on Soil Microbes. <i>Nanotechnology in the Life Sciences</i> , 2020 , 65-85 | 1.1 | 2 |
| 250 | Restoration of Degraded Soil for Sustainable Agriculture 2020 , 31-81 | | 9 |
| 249 | Rice Production, Augmentation, Escalation, and Yield Under Water Stress 2020 , 117-128 | | 2 |
| 248 | Individual and combined application of EDTA and citric acid assisted phytoextraction of copper using jute (<i>Corchorus capsularis</i> L.) seedlings. <i>Environmental Technology and Innovation</i> , 2020 , 19, 100893 | 7 | 26 |
| 247 | Residual effects of biochar and phosphorus on growth and nutrient accumulation by maize (<i>Zea mays</i> L.) amended with microbes in texturally different soils. <i>Chemosphere</i> , 2020 , 238, 124710 | 8.4 | 34 |
| 246 | Loading of Cefixime to pH sensitive chitosan based hydrogel and investigation of controlled release kinetics. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1236-1244 | 7.9 | 36 |
| 245 | High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. <i>Chemosphere</i> , 2020 , 243, 125330 | 8.4 | 48 |
| 244 | A review of biochar-based sorbents for separation of heavy metals from water. <i>International Journal of Phytoremediation</i> , 2020 , 22, 111-126 | 3.9 | 57 |
| 243 | Efficacy of Entomopathogenic Fungi Against Brown Planthopper <i>Nilaparvata lugens</i> (Stål) (Homoptera: Delphacidae) Under Controlled Conditions. <i>Gesunde Pflanzen</i> , 2020 , 72, 101-112 | 1.9 | 5 |

| | | | |
|-----|--|------|----|
| 242 | Comparing the performance of four macrophytes in bacterial assisted floating treatment wetlands for the removal of trace metals (Fe, Mn, Ni, Pb, and Cr) from polluted river water. <i>Chemosphere</i> , 2020 , 243, 125353 | 8.4 | 28 |
| 241 | Biomass for renewable energy production in Pakistan: current state and prospects. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1 | 1.8 | 9 |
| 240 | Kinetics and controlled release of lidocaine from novel carrageenan and alginate-based blend hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 67-78 | 7.9 | 19 |
| 239 | Potential of siltstone and its composites with biochar and magnetite nanoparticles for the removal of cadmium from contaminated aqueous solutions: Batch and column scale studies. <i>Environmental Pollution</i> , 2020 , 259, 113938 | 9.3 | 25 |
| 238 | Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121976 | 12.8 | 17 |
| 237 | Green synthesized silver nanoparticles induced cytogenotoxic and genotoxic changes in <i>Allium cepa</i> L. varies with nanoparticles doses and duration of exposure. <i>Chemosphere</i> , 2020 , 243, 125430 | 8.4 | 28 |
| 236 | Assessment of grain yield indices in response to drought stress in wheat (L.). <i>Saudi Journal of Biological Sciences</i> , 2020 , 27, 1818-1823 | 4 | 20 |
| 235 | Surface characterizations of membranes and electrospun chitosan derivatives by optical speckle analysis. <i>Surface and Interface Analysis</i> , 2020 , 52, 132-139 | 1.5 | 1 |
| 234 | Effects of silicon nanoparticles on growth and physiology of wheat in cadmium contaminated soil under different soil moisture levels. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 4958-4968 | 5.1 | 56 |
| 233 | 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 | 5.1 | 32 |
| 232 | Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat. <i>Chemosphere</i> , 2020 , 244, 125548 | 8.4 | 29 |
| 231 | 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 | 8.4 | 21 |
| 230 | 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 | 8.4 | 32 |
| 229 | Glutamic Acid-Assisted Phytomanagement of Chromium Contaminated Soil by Sunflower (L.): Morphophysiological and Biochemical Alterations. <i>Frontiers in Plant Science</i> , 2020 , 11, 1297 | 6.2 | 7 |
| 228 | 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 | 5.4 | 81 |
| 227 | Effects of biochar and foliar application of selenium on the uptake and subcellular distribution of chromium in <i>Ipomoea aquatica</i> in chromium-polluted soils. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 206, 111184 | 7 | 14 |
| 226 | 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 | 5.9 | 29 |
| 225 | Characterization of mycotoxins from entomopathogenic fungi (<i>Cordyceps fumosorosea</i>) and their toxic effects to the development of asian citrus psyllid reared on healthy and diseased citrus plants. <i>Toxicon</i> , 2020 , 188, 39-47 | 2.8 | 12 |

| | | | |
|-----|--|------|----|
| 224 | 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 | 4.9 | 52 |
| 223 | 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 | 5.4 | 23 |
| 222 | Reduces Cadmium Accumulation and Improves Growth and Antioxidant Defense System in Two Wheat (L.) Varieties. <i>Plants</i> , 2020 , 9, | 4.5 | 26 |
| 221 | Effects of cropping system and fertilization regime on soil phosphorous are mediated by rhizosphere-microbial processes in a semi-arid agroecosystem. <i>Journal of Environmental Management</i> , 2020 , 271, 111033 | 7.9 | 6 |
| 220 | Effects of cultivars, water regimes, and growth stages on cadmium accumulation in rice with different radial oxygen loss. <i>Plant and Soil</i> , 2020 , 453, 529-543 | 4.2 | 8 |
| 219 | Relief Role of Lysine Chelated Zinc (Zn) on 6-Week-Old Maize Plants under Tannery Wastewater Irrigation Stress. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17, | 4.6 | 5 |
| 218 | PEG 6000-Stimulated Drought Stress Improves the Attributes of In Vitro Growth, Steviol Glycosides Production, and Antioxidant Activities in Bertoni. <i>Plants</i> , 2020 , 9, | 4.5 | 25 |
| 217 | Assessment of health and ecological risks of heavy metal contamination: a case study of agricultural soils in Thall, Dir-Kohistan. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 786 | 3.1 | 9 |
| 216 | Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-36 | 11.1 | 19 |
| 215 | Role of iron-lysine on morpho-physiological traits and combating chromium toxicity in rapeseed (<i>Brassica napus</i> L.) plants irrigated with different levels of tannery wastewater. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 70-84 | 5.4 | 41 |
| 214 | Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. <i>Plants</i> , 2020 , 9, | 4.5 | 37 |
| 213 | Implementation of Floating Treatment Wetlands for Textile Wastewater Management: A Review. <i>Sustainability</i> , 2020 , 12, 5801 | 3.6 | 11 |
| 212 | Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. <i>Sustainability</i> , 2020 , 12, 5559 | 3.6 | 32 |
| 211 | Biochar impact on microbial population and elemental composition of red soil. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1 | 1.8 | 3 |
| 210 | 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 | 4.3 | 35 |
| 209 | Unraveling the effects of cadmium on growth, physiology and associated health risks of leafy vegetables. <i>Revista Brasileira De Botanica</i> , 2020 , 43, 799-811 | 1.2 | 5 |
| 208 | Foliar Spray of Fe-Asp Confers Better Drought Tolerance in Sunflower as Compared with FeSO: Yield Traits, Osmotic Adjustment, and Antioxidative Defense Mechanisms. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 4 |
| 207 | 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 | 3.6 | 7 |

| | | | |
|-----|---|-----|----|
| 206 | Ameliorating the Drought Stress for Wheat Growth through Application of ACC-Deaminase Containing Rhizobacteria along with Biogas Slurry. <i>Sustainability</i> , 2020 , 12, 6022 | 3.6 | 23 |
| 205 | Low Doses of 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. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 7 |
| 204 | Zinc-lysine Supplementation Mitigates Oxidative Stress in Rapeseed (L.) by Preventing Phytotoxicity of Chromium, When Irrigated with Tannery Wastewater. <i>Plants</i> , 2020 , 9, | 4.5 | 21 |
| 203 | Physiological and Biochemical Response of (Regel) G. Nicholson under Acetic Acid Assisted Phytoextraction of Lead. <i>Plants</i> , 2020 , 9, | 4.5 | 2 |
| 202 | Influence of Metal-Resistant Staphylococcus aureus Strain K1 on the Alleviation of Chromium Stress in Wheat. <i>Agronomy</i> , 2020 , 10, 1354 | 3.6 | 7 |
| 201 | Interactive role of zinc and iron lysine on L. growth, photosynthesis and antioxidant capacity irrigated with tannery wastewater. <i>Physiology and Molecular Biology of Plants</i> , 2020 , 26, 2435-2452 | 2.8 | 12 |
| 200 | Integrated Nutrient Management Enhances Soil Quality and Crop Productivity in Maize-Based Cropping System. <i>Sustainability</i> , 2020 , 12, 10214 | 3.6 | 11 |
| 199 | Salicylic Acid Improves Boron Toxicity Tolerance by Modulating the Physio-Biochemical Characteristics of Maize (Zea mays L.) at an Early Growth Stage. <i>Agronomy</i> , 2020 , 10, 2013 | 3.6 | 12 |
| 198 | Approaches in Enhancing Thermotolerance in Plants: An Updated Review. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 456-480 | 4.7 | 31 |
| 197 | Phragmites australis in combination with hydrocarbons degrading bacteria is a suitable option for remediation of diesel-contaminated water in floating wetlands. <i>Chemosphere</i> , 2020 , 240, 124890 | 8.4 | 38 |
| 196 | Efficacy of Zea mays L. for the management of marble effluent contaminated soil under citric acid amendment; morpho-physiological and biochemical response. <i>Chemosphere</i> , 2020 , 240, 124930 | 8.4 | 24 |
| 195 | Damage potential of Tribolium castaneum (Herbst) (Coleoptera: Tenebrionidae) on wheat grains stored in hermetic and non-hermetic storage bags. <i>International Journal of Tropical Insect Science</i> , 2020 , 40, 27-37 | 1 | 7 |
| 194 | Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. <i>Chemosphere</i> , 2020 , 238, 124681 | 8.4 | 86 |
| 193 | Seasonal variations of soil phosphorus and associated fertility indicators in wastewater-irrigated urban aridisol. <i>Chemosphere</i> , 2020 , 239, 124725 | 8.4 | 5 |
| 192 | Effect of composted organic amendments and zinc oxide nanoparticles on growth and cadmium accumulation by wheat; a life cycle study. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 23926-23936 | 5.1 | 10 |
| 191 | Sugar-Catalyzed Synthesis of Triarylimidazoles: An Exemplary Model of Sweet Chemistry. <i>Russian Journal of Organic Chemistry</i> , 2020 , 56, 509-513 | 0.7 | 0 |
| 190 | Copper Uptake and Accumulation, Ultra-Structural Alteration, and Bast Fibre Yield and Quality of Fibrous Jute (L.) Plants Grown Under Two Different Soils of China. <i>Plants</i> , 2020 , 9, | 4.5 | 34 |
| 189 | Physiological and biochemical response of wheat (Triticum aestivum) to TiO nanoparticles in phosphorous amended soil: A full life cycle study. <i>Journal of Environmental Management</i> , 2020 , 263, 110365 | 7.9 | 26 |

| | | | |
|-----|--|-----|-----|
| 188 | Role of Exogenous and Endogenous Hydrogen Sulfide (HS) on Functional Traits of Plants Under Heavy Metal Stresses: A Recent Perspective. <i>Frontiers in Plant Science</i> , 2020 , 11, 545453 | 6.2 | 13 |
| 187 | The Use of Silicon in Stressed Agriculture Management 2020 , 381-431 | | 5 |
| 186 | Evaluation of the entomopathogenic fungi as a non-traditional control of the rice leaf roller, <i>Cnaphalocrocis medinalis</i> (Guenee) (Lepidoptera: Pyralidae) under controlled conditions. <i>Egyptian Journal of Biological Pest Control</i> , 2019 , 29, | 2 | 9 |
| 185 | Effect of the entomopathogenic fungus, <i>Beauveria bassiana</i> , combined with diatomaceous earth on the red flour beetle, <i>Tribolium castaneum</i> (Herbst) (Tenebrionidae: Coleoptera). <i>Egyptian Journal of Biological Pest Control</i> , 2019 , 29, | 2 | 11 |
| 184 | Characterization and chromium biosorption potential of extruded polymeric substances from <i>Synechococcus mundulus</i> induced by acute dose of gamma irradiation. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 31998-32012 | 5.1 | 19 |
| 183 | Comparative effect of mesquite biochar, farmyard manure, and chemical fertilizers on soil fertility and growth of onion (<i>Allium cepa</i> L.). <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 3 |
| 182 | Comparative efficacy of organic and inorganic silicon fertilizers on antioxidant response, Cd/Pb accumulation and health risk assessment in wheat (<i>Triticum aestivum</i> L.). <i>Environmental Pollution</i> , 2019 , 255, 113146 | 9.3 | 39 |
| 181 | Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (<i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2019 , 9, 12924 | 4.9 | 25 |
| 180 | Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019 , 9, 13022 | 4.9 | 27 |
| 179 | Morphological and Physiological Responses of Plants to Cadmium Toxicity 2019 , 47-72 | | 5 |
| 178 | <i>Solanum nigrum</i> L.: A Novel Hyperaccumulator for the Phyto-Management of Cadmium Contaminated Soils 2019 , 451-477 | | 6 |
| 177 | EDTA-assisted phytoextraction of lead and cadmium by <i>Pelargonium</i> cultivars grown on spiked soil. <i>International Journal of Phytoremediation</i> , 2019 , 21, 101-110 | 3.9 | 35 |
| 176 | Morpho-physiological and biochemical responses of tolerant and sensitive rapeseed cultivars to drought stress during early seedling growth stage. <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1 | 2.6 | 40 |
| 175 | Variations in morphological and physiological traits of wheat regulated by chromium species in long-term tannery effluent irrigated soils. <i>Chemosphere</i> , 2019 , 222, 891-903 | 8.4 | 21 |
| 174 | Foliar- and soil-applied salicylic acid and bagasse compost addition to soil reduced deleterious effects of salinity on wheat. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 0 |
| 173 | Seed priming with silicon nanoparticles improved the biomass and yield while reduced the oxidative stress and cadmium concentration in wheat grains. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 7579-7588 | 5.1 | 112 |
| 172 | Combined application of citric acid and 5-aminolevulinic acid improved biomass, photosynthesis and gas exchange attributes of sunflower (L.) grown on chromium contaminated soil. <i>International Journal of Phytoremediation</i> , 2019 , 21, 760-767 | 3.9 | 39 |
| 171 | Synthesis of magnetite-based nanocomposites for effective removal of brilliant green dye from wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 24489-24502 | 5.1 | 25 |

| | | | |
|-----|---|-----|----|
| 170 | Assessment of trace element and macronutrient accumulation capacity of two native plant species in three different Egyptian mine areas for remediation of contaminated soils. <i>Ecological Indicators</i> , 2019 , 106, 105463 | 5.8 | 2 |
| 169 | Novel chitosan derivative based composite scaffolds with enhanced angiogenesis; potential candidates for healing chronic non-healing wounds. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 72 | 4.5 | 7 |
| 168 | Lead toxicity induced phytotoxic effects on mung bean can be relegated by lead tolerant <i>Bacillus subtilis</i> (PbRB3). <i>Chemosphere</i> , 2019 , 234, 70-80 | 8.4 | 21 |
| 167 | The accumulation of cadmium in wheat (<i>Triticum aestivum</i>) as influenced by zinc oxide nanoparticles and soil moisture conditions. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19859-19870 | 5.1 | 66 |
| 166 | Opportunities and challenges in the remediation of metal-contaminated soils by using tobacco (<i>Nicotiana tabacum</i> L.): a critical review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 18053-18070 | 5.1 | 9 |
| 165 | Effects of <i>Rhizophagus clarus</i> and biochar on growth, photosynthesis, nutrients, and cadmium (Cd) concentration of maize (<i>Zea mays</i>) grown in Cd-spiked soil. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 20689-20700 | 5.1 | 18 |
| 164 | Organic Manures for Cadmium Tolerance and Remediation 2019 , 19-67 | | 4 |
| 163 | Inorganic Amendments for the Remediation of Cadmium-Contaminated Soils 2019 , 113-141 | | 3 |
| 162 | Plant Nutrients and Cadmium Stress Tolerance 2019 , 319-333 | | |
| 161 | Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019 , 140, 1-8 | 5.4 | 95 |
| 160 | Comparative efficiency of peanut shell and peanut shell biochar for removal of arsenic from water. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 18624-18635 | 5.1 | 37 |
| 159 | A review on remediation of harmful dyes through visible light-driven WO ₃ photocatalytic nanomaterials. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 4975-4988 | 3.3 | 26 |
| 158 | Influence of biochar amendment and foliar application of iron oxide nanoparticles on growth, photosynthesis, and cadmium accumulation in rice biomass. <i>Journal of Soils and Sediments</i> , 2019 , 19, 3749-3759 | 3.4 | 23 |
| 157 | Assessment of flood-induced changes in soil heavy metal and nutrient status in Rajanpur, Pakistan. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 234 | 3.1 | 7 |
| 156 | Hydrogen sulfide enhances rice tolerance to nickel through the prevention of chloroplast damage and the improvement of nitrogen metabolism under excessive nickel. <i>Plant Physiology and Biochemistry</i> , 2019 , 138, 100-111 | 5.4 | 44 |
| 155 | Comparative effectiveness of different biochars and conventional organic materials on growth, photosynthesis and cadmium accumulation in cereals. <i>Chemosphere</i> , 2019 , 227, 72-81 | 8.4 | 46 |
| 154 | Split application of silicon in cadmium (Cd) spiked alkaline soil plays a vital role in decreasing Cd accumulation in rice (<i>Oryza sativa</i> L.) grains. <i>Chemosphere</i> , 2019 , 226, 454-462 | 8.4 | 52 |
| 153 | Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (<i>Oryza sativa</i> L.) plant. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 11288-11299 | 5.1 | 92 |

| | | | |
|-----|--|------|----|
| 152 | Responses of wheat (<i>Triticum aestivum</i>) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 173, 156-164 | 7 | 72 |
| 151 | Zinc-lysine prevents chromium-induced morphological, photosynthetic, and oxidative alterations in spinach irrigated with tannery wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28951-28961 | 5.1 | 20 |
| 150 | Cadmium immobilization in the soil and accumulation by spinach (<i>Spinacia oleracea</i>) depend on biochar types under controlled and field conditions. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 4 |
| 149 | Precipitation Variations under a Changing Climate from 1961-2015 in the Source Region of the Indus River. <i>Water (Switzerland)</i> , 2019 , 11, 1366 | 3 | 5 |
| 148 | Potential impact of biochar types and microbial inoculants on growth of onion plant in differently textured and phosphorus limited soils. <i>Journal of Environmental Management</i> , 2019 , 247, 672-680 | 7.9 | 20 |
| 147 | Effect of zinc-biofortified seeds on grain yield of wheat, rice, and common bean grown in six countries. <i>Journal of Plant Nutrition and Soil Science</i> , 2019 , 182, 791-804 | 2.3 | 12 |
| 146 | Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating HO for ciprofloxacin removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120848 | 12.8 | 73 |
| 145 | Seed priming with melatonin coping drought stress in rapeseed by regulating reactive oxygen species detoxification: Antioxidant defense system, osmotic adjustment, stomatal traits and chloroplast ultrastructure perseveration. <i>Industrial Crops and Products</i> , 2019 , 140, 111597 | 5.9 | 65 |
| 144 | Phytoremediation of landfill leachate waste contaminants through floating bed technique using water hyacinth and water lettuce. <i>International Journal of Phytoremediation</i> , 2019 , 21, 1356-1367 | 3.9 | 20 |
| 143 | Chemically synthesized silver nanoparticles induced physio-chemical and chloroplast ultrastructural changes in broad bean seedlings. <i>Chemosphere</i> , 2019 , 235, 1066-1072 | 8.4 | 27 |
| 142 | Spatio-temporal variations of shallow and deep well groundwater nitrate concentrations along the Indus River floodplain aquifer in Pakistan. <i>Environmental Pollution</i> , 2019 , 253, 384-392 | 9.3 | 11 |
| 141 | Regulation of Photosynthesis Under Metal Stress 2019 , 95-105 | | 4 |
| 140 | Phosphate fertilizer premixing with farmyard manure enhances phosphorus availability in calcareous soil for higher wheat productivity. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 32276-32284 | 5.1 | 3 |
| 139 | Effect of gibberellic acid on growth, photosynthesis and antioxidant defense system of wheat under zinc oxide nanoparticle stress. <i>Environmental Pollution</i> , 2019 , 254, 113109 | 9.3 | 22 |
| 138 | Nanoscale Morphology Control of Na-Rich Prussian Blue Cathode Materials for Sodium Ion Batteries with Good Thermal Stability. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8570-8579 | 6.1 | 11 |
| 137 | Investigation into arsenic retention in arid contaminated soils with biochar application. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 11 |
| 136 | Different nitrogen and biochar sources application in an alkaline calcareous soil improved the maize yield and soil nitrogen retention. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 6 |
| 135 | Design and Synthesis of Novel Inhibitor against Ser121 and Val122 Mutations in P53 Cancer Gene. <i>Advances in Pharmacology and Pharmacy</i> , 2019 , 7, 63-70 | 2.3 | 4 |

| | | | |
|-----|--|-----|-----|
| 134 | Alleviation of cadmium accumulation in maize (<i>Zea mays</i> L.) by foliar spray of zinc oxide nanoparticles and biochar to contaminated soil. <i>Environmental Pollution</i> , 2019 , 248, 358-367 | 9.3 | 115 |
| 133 | Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (<i>Oryza sativa</i>). <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1 | 2.6 | 72 |
| 132 | Ecophysiological response of early stage <i>Albizia lebbek</i> to cadmium toxicity and biochar addition. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 4 |
| 131 | Cerium oxide nanoparticles: Advances in synthesis, prospects and application in agro-ecosystem. <i>Comprehensive Analytical Chemistry</i> , 2019 , 87, 209-250 | 1.9 | 6 |
| 130 | Assessing the Correlations between Different Traits in Copper-Sensitive and Copper-Resistant Varieties of Jute (L.). <i>Plants</i> , 2019 , 8, | 4.5 | 46 |
| 129 | Synthesis and Application of Titanium Dioxide Nanoparticles for Removal of Cadmium from Wastewater: Kinetic and Equilibrium Study. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1 | 2.6 | 16 |
| 128 | Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. <i>Plants</i> , 2019 , 8, | 4.5 | 32 |
| 127 | Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5111-5121 | 5.1 | 24 |
| 126 | Composting of municipal solid waste by different methods improved the growth of vegetables and reduced the health risks of cadmium and lead. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5463-5474 | 5.1 | 16 |
| 125 | Biochar Is a Potential Source of Silicon Fertilizer 2019 , 225-238 | | 4 |
| 124 | The Ameliorative Role of 5-Aminolevulinic Acid (ALA) Under Cr Stress in Two Maize Cultivars Showing Differential Sensitivity to Cr Stress Tolerance. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 788-798 | 4.7 | 10 |
| 123 | Recent Advances in Arsenic Accumulation in Rice 2019 , 385-398 | | 8 |
| 122 | A critical review on the effects of zinc at toxic levels of cadmium in plants. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 6279-6289 | 5.1 | 67 |
| 121 | Effect of poultry litter biochar on chromium (Cr) bioavailability and accumulation in spinach (<i>Spinacia oleracea</i>) grown in Cr-polluted soil. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 20 |
| 120 | Zinc and iron oxide nanoparticles improved the plant growth and reduced the oxidative stress and cadmium concentration in wheat. <i>Chemosphere</i> , 2019 , 214, 269-277 | 8.4 | 296 |
| 119 | Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1777-1791 | 4.7 | 15 |
| 118 | Heavy metal-induced oxidative stress on seed germination and seedling development: a critical review. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1813-1831 | 4.7 | 78 |
| 117 | Management of tannery wastewater for improving growth attributes and reducing chromium uptake in spinach through citric acid application. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 10848-10856 | 5.1 | 28 |

| | | | |
|-----|--|------|-----|
| 116 | Phyto-management of chromium contaminated soils through sunflower under exogenously applied 5-aminolevulinic acid. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 151, 255-265 | 7 | 57 |
| 115 | Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. <i>Chemosphere</i> , 2018 , 199, 468-476 | 8.4 | 46 |
| 114 | Effect of polar aprotic solvents on hydroxyethyl cellulose-based gel polymer electrolyte. <i>Ionics</i> , 2018 , 24, 1955-1964 | 2.7 | 16 |
| 113 | Biochar application increased the growth and yield and reduced cadmium in drought stressed wheat grown in an aged contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 148, 825-833 | 7 | 154 |
| 112 | Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , 2018 , 631-632, 1175-1191 | 10.2 | 177 |
| 111 | Conductivity or rheology? Tradeoff for competing properties in the fabrication of a gel polymer electrolyte based on chitosan-barbiturate derivative. <i>Ionics</i> , 2018 , 24, 3015-3025 | 2.7 | 4 |
| 110 | Effect of biochar on alleviation of cadmium toxicity in wheat (<i>Triticum aestivum</i> L.) grown on Cd-contaminated saline soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25668-25680 | 5.1 | 89 |
| 109 | Prevailing trends of climatic extremes across Indus-Delta of Sindh-Pakistan. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 1101-1117 | 3 | 21 |
| 108 | Nitric oxide induces rice tolerance to excessive nickel by regulating nickel uptake, reactive oxygen species detoxification and defense-related gene expression. <i>Chemosphere</i> , 2018 , 191, 23-35 | 8.4 | 75 |
| 107 | Applicability of upflow anaerobic sludge blanket (UASB) reactor for typical sewage of a small community: its biomass reactivation after shutdown. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 1745-1756 | 3.3 | 4 |
| 106 | Review of Upflow Anaerobic Sludge Blanket Reactor Technology: Effect of Different Parameters and Developments for Domestic Wastewater Treatment. <i>Journal of Chemistry</i> , 2018 , 2018, 1-13 | 2.3 | 50 |
| 105 | Increased Foliar Activity of Isoproturon+Tribenuron and Pyroxsulam Against Little Seed Canary Grass and Field Bindweed by Proper Adjuvant Selection in Wheat. <i>Planta Daninha</i> , 2018 , 36, | 0.7 | 1 |
| 104 | Evaluation of the Impact of Water Management Technologies on Water Savings in the Lower Chenab Canal Command Area, Indus River Basin. <i>Water (Switzerland)</i> , 2018 , 10, 681 | 3 | 10 |
| 103 | Role of Zinc Lysine on Growth and Chromium Uptake in Rice Plants under Cr Stress. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1413-1422 | 4.7 | 41 |
| 102 | Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018 , 332, 100-108 | 6.7 | 142 |
| 101 | Effect of foliar-applied iron complexed with lysine on growth and cadmium (Cd) uptake in rice under Cd stress. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 20691-20699 | 5.1 | 46 |
| 100 | Zinc oxide nanoparticles alter the wheat physiological response and reduce the cadmium uptake by plants. <i>Environmental Pollution</i> , 2018 , 242, 1518-1526 | 9.3 | 176 |
| 99 | A critical review of mechanisms involved in the adsorption of organic and inorganic contaminants through biochar. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 68 |

| | | | |
|----|--|-----|-----|
| 98 | Role of Mineral Nutrients in Plant Growth Under Extreme Temperatures 2018 , 499-524 | | 2 |
| 97 | Lead Toxicity in Cereals and Its Management Strategies: a Critical Review. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1 | 2.6 | 25 |
| 96 | Alleviation of cadmium (Cd) toxicity and minimizing its uptake in wheat (<i>Triticum aestivum</i>) by using organic carbon sources in Cd-spiked soil. <i>Environmental Pollution</i> , 2018 , 241, 557-565 | 9.3 | 72 |
| 95 | Efficiency of biogas slurry and Burkholderia phytofirmans PsJN to improve growth, physiology, and antioxidant activity of Brassica napus L. in chromium-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 6387-6397 | 5.1 | 16 |
| 94 | Comparative Effects of Biochar, Slag and Ferrous-Mn Ore on Lead and Cadmium Immobilization in Soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 100, 286-292 | 2.7 | 34 |
| 93 | Synthesis of a novel organosoluble, biocompatible, and antibacterial chitosan derivative for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45905 | 2.9 | 15 |
| 92 | Residual effects of biochar on growth, photosynthesis and cadmium uptake in rice (<i>Oryza sativa</i> L.) under Cd stress with different water conditions. <i>Journal of Environmental Management</i> , 2018 , 206, 676-683 | 7.9 | 114 |
| 91 | Potential of Duckweed (<i>Lemna minor</i>) for the Phytoremediation of Landfill Leachate. <i>Journal of Chemistry</i> , 2018 , 2018, 1-9 | 2.3 | 22 |
| 90 | Cadmium (Cd) concentration in wheat (<i>Triticum aestivum</i>) grown in Cd-spiked soil varies with the doses and biochar feedstock. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 3 |
| 89 | Biochar for sustainable soil and environment: a comprehensive review. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 16 |
| 88 | Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018 , 8, 17086 | 4.9 | 33 |
| 87 | Sugarcane waste straw biochar and its effects on calcareous soil and agronomic traits of okra. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 5 |
| 86 | A field study investigating the potential use of phosphorus combined with organic amendments on cadmium accumulation by wheat and subsequent rice. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 10 |
| 85 | Tea waste as a potential biowaste for removal of hexavalent chromium from wastewater: equilibrium and kinetic studies. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 15 |
| 84 | 5-Aminolevulinic Acid-Induced Heavy Metal Stress Tolerance and Underlying Mechanisms in Plants. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1423-1436 | 4.7 | 18 |
| 83 | Residual impact of biochar on cadmium uptake by rice (<i>Oryza sativa</i> L.) grown in Cd-contaminated soil. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 9 |
| 82 | Synthesis of biochar from sugarcane filter-cake and its impacts on physiological performance of lettuce (<i>Lettuce sativa</i>) grown on cadmium contaminated soil. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 1 |
| 81 | Effect of coal and wood ash on phosphorus immobilization in different textured soils. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 4 |

| | | | |
|----|--|------|-----|
| 80 | Impact of different amendments on biochemical responses of sesame (<i>Sesamum indicum</i> L.) plants grown in lead-cadmium contaminated soil. <i>Plant Physiology and Biochemistry</i> , 2018 , 132, 345-355 | 5.4 | 61 |
| 79 | Recent Progress of Nanotoxicology in Plants 2018 , 143-174 | | 2 |
| 78 | Fulvic Acid Prevents Chromium-induced Morphological, Photosynthetic, and Oxidative Alterations in Wheat Irrigated with Tannery Waste Water. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1357-1367 | 4.7 | 16 |
| 77 | Effects of biochar on growth, photosynthesis, and chromium (Cr) uptake in <i>Brassica rapa</i> L. under Cr stress. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 16 |
| 76 | Effect of biochar and quicklime on growth of wheat and physicochemical properties of Ultisols. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1 | 1.8 | 15 |
| 75 | Improved ionic conductivity in guar gum succinateBased polymer electrolyte membrane. <i>High Performance Polymers</i> , 2018 , 30, 993-1001 | 1.6 | 8 |
| 74 | Efficiency of various sewage sludges and their biochars in improving selected soil properties and growth of wheat (<i>Triticum aestivum</i>). <i>Journal of Environmental Management</i> , 2018 , 223, 607-613 | 7.9 | 42 |
| 73 | Glutamic acid assisted phyto-management of silver-contaminated soils through sunflower; physiological and biochemical response. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25390-25400 | 5.1 | 29 |
| 72 | Effect of metal and metal oxide nanoparticles on growth and physiology of globally important food crops: A critical review. <i>Journal of Hazardous Materials</i> , 2017 , 322, 2-16 | 12.8 | 286 |
| 71 | Use of Maize (<i>Zea mays</i> L.) for phytomanagement of Cd-contaminated soils: a critical review. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 259-277 | 4.7 | 85 |
| 70 | Air pollution tolerance index of plants around brick kilns in Rawalpindi, Pakistan. <i>Journal of Environmental Management</i> , 2017 , 190, 252-258 | 7.9 | 43 |
| 69 | Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. <i>Chemosphere</i> , 2017 , 174, 515-523 | 8.4 | 98 |
| 68 | Promotive role of 5-aminolevulinic acid on chromium-induced morphological, photosynthetic, and oxidative changes in cauliflower (<i>Brassica oleracea botrytis</i> L.). <i>Environmental Science and Pollution Research</i> , 2017 , 24, 8814-8824 | 5.1 | 38 |
| 67 | Agroforestry: a sustainable environmental practice for carbon sequestration under the climate change scenarios-a review. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 11177-11191 | 5.1 | 60 |
| 66 | Effect of biochar on cadmium bioavailability and uptake in wheat (<i>Triticum aestivum</i> L.) grown in a soil with aged contamination. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 140, 37-47 | 7 | 252 |
| 65 | Role of organic and inorganic amendments in alleviating heavy metal stress in oilseed crops 2017 , 224-235 | | 24 |
| 64 | Interactive effect of salinity and silver nanoparticles on photosynthetic and biochemical parameters of wheat. <i>Archives of Agronomy and Soil Science</i> , 2017 , 63, 1736-1747 | 2 | 102 |
| 63 | Human health risk assessment of arsenic in groundwater aquifers of Lahore, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017 , 23, 836-850 | 4.9 | 39 |

| | | | |
|----|---|------|-----|
| 62 | Multi-metal resistance and plant growth promotion potential of a wastewater bacterium <i>Pseudomonas aeruginosa</i> and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 1583-1593 | 4.7 | 27 |
| 61 | Effect of limestone, lignite and biochar applied alone and combined on cadmium uptake in wheat and rice under rotation in an effluent irrigated field. <i>Environmental Pollution</i> , 2017 , 227, 560-568 | 9.3 | 160 |
| 60 | A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , 2017 , 182, 90-105 | 8.4 | 232 |
| 59 | Application of natural plant extracts improves the tolerance against combined terminal heat and drought stresses in bread wheat. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 528-538 | 3.9 | 20 |
| 58 | Citric acid enhanced the antioxidant defense system and chromium uptake by <i>Lemna minor</i> L. grown in hydroponics under Cr stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 17669-17678 | 5.1 | 54 |
| 57 | Remediation of heavy metal contaminated soils by using <i>Solanum nigrum</i> : A review. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 143, 236-248 | 7 | 85 |
| 56 | Human health implications, risk assessment and remediation of As-contaminated water: A critical review. <i>Science of the Total Environment</i> , 2017 , 601-602, 756-769 | 10.2 | 116 |
| 55 | Phyto-management of Cr-contaminated soils by sunflower hybrids: physiological and biochemical response and metal extractability under Cr stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 16845-16859 | 5.1 | 36 |
| 54 | Biochar soil amendment on alleviation of drought and salt stress in plants: a critical review. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 12700-12712 | 5.1 | 217 |
| 53 | Photosynthesis and growth response of maize (<i>Zea mays</i> L.) hybrids exposed to cadmium stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 5521-5529 | 5.1 | 41 |
| 52 | Role of Bioremediation Agents (Bacteria, Fungi, and Algae) in Alleviating Heavy Metal Toxicity 2017 , 517-537 | | 16 |
| 51 | Pre-breeding of lentil (<i>Lens culinaris</i> Medik.) for herbicide resistance through seed mutagenesis. <i>PLoS ONE</i> , 2017 , 12, e0171846 | 3.7 | 4 |
| 50 | Iodine biofortification of wheat, rice and maize through fertilizer strategy. <i>Plant and Soil</i> , 2017 , 418, 319-325 | 4.35 | 59 |
| 49 | Contrasting Effects of Organic and Inorganic Amendments on Reducing Lead Toxicity in Wheat. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017 , 99, 642-647 | 2.7 | 18 |
| 48 | Effects of co-composting of farm manure and biochar on plant growth and carbon mineralization in an alkaline soil. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 26060-26068 | 5.1 | 40 |
| 47 | Microwave irradiation and citric acid assisted seed germination and phytoextraction of nickel (Ni) by <i>Brassica napus</i> L.: morpho-physiological and biochemical alterations under Ni stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21050-21064 | 5.1 | 23 |
| 46 | Citric acid assisted phytoextraction of chromium by sunflower; morpho-physiological and biochemical alterations in plants. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 145, 90-102 | 7 | 99 |
| 45 | Foliar application of aspartic acid lowers cadmium uptake and Cd-induced oxidative stress in rice under Cd stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21938-21947 | 5.1 | 30 |

| | | | |
|----|---|------|-----|
| 44 | Effect of zinc-lysine on growth, yield and cadmium uptake in wheat (<i>Triticum aestivum</i> L.) and health risk assessment. <i>Chemosphere</i> , 2017 , 187, 35-42 | 8.4 | 119 |
| 43 | Seed priming by sodium nitroprusside improves salt tolerance in wheat (<i>Triticum aestivum</i> L.) by enhancing physiological and biochemical parameters. <i>Plant Physiology and Biochemistry</i> , 2017 , 119, 50-58 | 5.4 | 74 |
| 42 | Advances and future directions of biochar characterization methods and applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 2275-2330 | 11.1 | 128 |
| 41 | pH Sensitive Hydrogels in Drug Delivery: Brief History, Properties, Swelling, and Release Mechanism, Material Selection and Applications. <i>Polymers</i> , 2017 , 9, | 4.5 | 246 |
| 40 | Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. <i>Sustainability</i> , 2017 , 9, 266 | 3.6 | 43 |
| 39 | Drinking Water Quality Status and Contamination in Pakistan. <i>BioMed Research International</i> , 2017 , 2017, 7908183 | 3 | 125 |
| 38 | Silicon alleviates Cd stress of wheat seedlings (<i>Triticum turgidum</i> L. cv. Claudio) grown in hydroponics. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1414-27 | 5.1 | 158 |
| 37 | Glycinebetaine mediates chromium tolerance in mung bean through lowering of Cr uptake and improved antioxidant system. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 648-662 | 2 | 69 |
| 36 | Phosphorus amendment decreased cadmium (Cd) uptake and ameliorates chlorophyll contents, gas exchange attributes, antioxidants, and mineral nutrients in wheat (<i>Triticum aestivum</i> L.) under Cd stress. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 533-546 | 2 | 101 |
| 35 | Silicon alleviates nickel toxicity in cotton seedlings through enhancing growth, photosynthesis, and suppressing Ni uptake and oxidative stress. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 633-647 | 2 | 68 |
| 34 | Uptake and distribution of minerals and heavy metals in commonly grown leafy vegetable species irrigated with sewage water. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 541 | 3.1 | 52 |
| 33 | Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (<i>Zea mays</i> L.) in relation to plant growth, photosynthesis and metal uptake. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 218-25 | 7 | 149 |
| 32 | Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2016 , 46, 1498-1528 | 11.1 | 82 |
| 31 | Physiological and biochemical mechanisms of silicon-induced copper stress tolerance in cotton (<i>Gossypium hirsutum</i> L.). <i>Acta Physiologiae Plantarum</i> , 2016 , 38, 1 | 2.6 | 35 |
| 30 | Effect of different amendments on rice (<i>Oryza sativa</i> L.) growth, yield, nutrient uptake and grain quality in Ni-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 18585-95 | 5.1 | 42 |
| 29 | Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 17859-79 | 5.1 | 361 |
| 28 | Cadmium stress in cotton seedlings: Physiological, photosynthesis and oxidative damages alleviated by glycinebetaine. <i>South African Journal of Botany</i> , 2016 , 104, 61-68 | 2.9 | 109 |
| 27 | Phytoremediation of heavy metals by <i>Alternanthera bettzickiana</i> : Growth and physiological response. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 126, 138-146 | 7 | 156 |

| | | | |
|----|---|-----|-----|
| 26 | Effects of ambient gaseous pollutants on photosynthesis, growth, yield and grain quality of selected crops grown at different sites varying in pollution levels. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 1195-1207 | 2 | 7 |
| 25 | Mechanisms of biochar-mediated alleviation of toxicity of trace elements in plants: a critical review. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2230-48 | 5.1 | 279 |
| 24 | Citric acid assisted phytoremediation of arsenic through Brassica napus L.. <i>Arsenic in the Environment Proceedings</i> , 2016 , 599-600 | | 6 |
| 23 | Chapter 2 Role of Silicon under Nutrient Deficiency 2016 , 29-46 | | 1 |
| 22 | Gaseous pollutants from brick kiln industry decreased the growth, photosynthesis, and yield of wheat (<i>Triticum aestivum</i> L.). <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 267 | 3.1 | 12 |
| 21 | Cadmium minimization in wheat: A critical review. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 130, 43-53 | 7 | 276 |
| 20 | Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. <i>Journal of Environmental Management</i> , 2016 , 183, 521-529 | 7.9 | 100 |
| 19 | Biochar enhances the cadmium tolerance in spinach (<i>Spinacia oleracea</i>) through modification of Cd uptake and physiological and biochemical attributes. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 21385-21394 | 5.1 | 134 |
| 18 | Alleviation of chromium toxicity by glycinebetaine is related to elevated antioxidant enzymes and suppressed chromium uptake and oxidative stress in wheat (<i>Triticum aestivum</i> L.). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10669-78 | 5.1 | 123 |
| 17 | Fulvic acid mediates chromium (Cr) tolerance in wheat (<i>Triticum aestivum</i> L.) through lowering of Cr uptake and improved antioxidant defense system. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10601-9 | 5.1 | 92 |
| 16 | Citric acid assisted phytoremediation of copper by Brassica napus L. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 120, 310-7 | 7 | 123 |
| 15 | Mannitol alleviates chromium toxicity in wheat plants in relation to growth, yield, stimulation of anti-oxidative enzymes, oxidative stress and Cr uptake in sand and soil media. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 122, 1-8 | 7 | 65 |
| 14 | Effect of inorganic amendments for in situ stabilization of cadmium in contaminated soils and its phyto-availability to wheat and rice under rotation. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 16897-906 | 5.1 | 169 |
| 13 | Citric acid enhances the phytoextraction of chromium, plant growth, and photosynthesis by alleviating the oxidative damages in Brassica napus L. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 11679-89 | 5.1 | 141 |
| 12 | The effect of excess copper on growth and physiology of important food crops: a review. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 8148-62 | 5.1 | 396 |
| 11 | Mechanisms of silicon-mediated alleviation of drought and salt stress in plants: a review. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 15416-31 | 5.1 | 230 |
| 10 | Effect of silicon on wheat seedlings (<i>Triticum turgidum</i> L.) grown in hydroponics and exposed to 0 to 30 μ M Cu. <i>Planta</i> , 2015 , 241, 847-60 | 4.7 | 219 |
| 9 | EDTA enhanced plant growth, antioxidant defense system, and phytoextraction of copper by Brassica napus L. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 1534-44 | 5.1 | 179 |

| | | | |
|---|--|------|-----|
| 8 | Remediating Cadmium-Contaminated Soils by Growing Grain Crops Using Inorganic Amendments 2015 , 367-396 | | 10 |
| 7 | Foliar application of ascorbate enhances the physiological and biochemical attributes of maize (<i>Zea mays</i> L.) cultivars under drought stress. <i>Archives of Agronomy and Soil Science</i> , 2015 , 61, 1659-1672 | 2 | 72 |
| 6 | Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 119, 186-97 | 7 | 467 |
| 5 | Citric acid assisted phytoremediation of cadmium by <i>Brassica napus</i> L. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 106, 164-72 | 7 | 237 |
| 4 | Effect of silicon on reducing cadmium toxicity in durum wheat (<i>Triticum turgidum</i> L. cv. Claudio W.) grown in a soil with aged contamination. <i>Journal of Hazardous Materials</i> , 2012 , 209-210, 326-34 | 12.8 | 211 |
| 3 | Chitosan-Based Smart Polymeric Hydrogels and their Prospective Applications in Biomedicine. <i>Starch/Staerke</i> , 2100150 | 2.3 | 1 |
| 2 | 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> , 1-48 | 11.1 | 10 |
| 1 | Do neonicotinoids better than pyrethroids for <i>Coccinella septempunctata</i> L. (Coleoptera: Coccinellidae)? A comparative sub-lethal indirect age-stage, two-sex life tables laboratory bioassay. <i>International Journal of Tropical Insect Science</i> , 1 | 1 | 1 |