Muhammad Rizwan

List of Publications by Citations

Source: https://exaly.com/author-pdf/4077650/muhammad-rizwan-publications-by-citations.pdf

Version: 2024-04-09

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	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
384	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
383	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
382	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
381	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
380	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
379	Cadmium minimization in wheat: A critical review. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 130, 43-53	7	276
378	Effect of biochar on cadmium bioavailability and uptake in wheat (Triticum aestivum L.) grown in a soil with aged contamination. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 140, 37-47	7	252
377	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
376	Citric acid assisted phytoremediation of cadmium by Brassica napus L. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 106, 164-72	7	237
375	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , 2017 , 182, 90-105	8.4	232
374	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
373	Effect of silicon on wheat seedlings (Triticum turgidum L.) grown in hydroponics and exposed to 0 to 30 µM Cu. <i>Planta</i> , 2015 , 241, 847-60	4.7	219
372	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
371	Effect of silicon on reducing cadmium toxicity in durum wheat (Triticum turgidum 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
370	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
369	Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , 2018 , 631-632, 1175-1191	10.2	177

368	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
367	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
366	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
365	Silicon alleviates Cd stress of wheat seedlings (Triticum turgidum L. cv. Claudio) grown in hydroponics. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1414-27	5.1	158
364	Phytoremediation of heavy metals by Alternanthera bettzickiana: Growth and physiological response. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 126, 138-146	7	156
363	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
362	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (Zea mays L.) in relation to plant growth, photosynthesis and metal uptake. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 218-25	7	149
361	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
360	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
359	Biochar enhances the cadmium tolerance in spinach (Spinacia oleracea) through modification of Cd uptake and physiological and biochemical attributes. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 21385-21394	5.1	134
358	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
357	Drinking Water Quality Status and Contamination in Pakistan. <i>BioMed Research International</i> , 2017 , 2017, 7908183	3	125
356	Alleviation of chromium toxicity by glycinebetaine is related to elevated antioxidant enzymes and suppressed chromium uptake and oxidative stress in wheat (Triticum aestivum L.). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 10669-78	5.1	123
355	Citric acid assisted phytoremediation of copper by Brassica napus L. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 120, 310-7	7	123
354	Effect of zinc-lysine on growth, yield and cadmium uptake in wheat (Triticum aestivum L.) and health risk assessment. <i>Chemosphere</i> , 2017 , 187, 35-42	8.4	119
353	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
352	Alleviation of cadmium accumulation in maize (Zea mays L.) by foliar spray of zinc oxide nanoparticles and biochar to contaminated soil. <i>Environmental Pollution</i> , 2019 , 248, 358-367	9.3	115
351	Residual effects of biochar on growth, photosynthesis and cadmium uptake in rice (Oryza sativa L.) under Cd stress with different water conditions. <i>Journal of Environmental Management</i> , 2018 , 206, 676-	6 7 83	114

350	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
349	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
348	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. <i>Sustainability</i> , 2020 , 12, 1927	3.6	107
347	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
346	Phosphorus amendment decreased cadmium (Cd) uptake and ameliorates chlorophyll contents, gas exchange attributes, antioxidants, and mineral nutrients in wheat (Triticum aestivum L.) under Cd stress. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 533-546	2	101
345	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
344	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
343	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
342	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (Triticum aestivum L.). <i>Plant Physiology and Biochemistry</i> , 2019 , 140, 1-8	5.4	95
341	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (Oryza sativa L.) plant. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 11288-11299	5.1	92
340	Fulvic acid mediates chromium (Cr) tolerance in wheat (Triticum aestivum 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
339	Effect of biochar on alleviation of cadmium toxicity in wheat (Triticum aestivum L.) grown on Cd-contaminated saline soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25668-25680	5.1	89
338	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. <i>Chemosphere</i> , 2020 , 238, 124681	8.4	86
337	Use of Maize (Zea mays L.) for phytomanagement of Cd-contaminated soils: a critical review. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 259-277	4.7	85
336	Remediation of heavy metal contaminated soils by using Solanum nigrum: A review. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 143, 236-248	7	85
335	Influence of phosphorus on copper phytoextraction via modulating cellular organelles in two jute (Corchorus capsularis L.) varieties grown in a copper mining soil of Hubei Province, China. <i>Chemosphere</i> , 2020 , 248, 126032	8.4	82
334	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
333	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

332	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
331	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
330	Seed priming by sodium nitroprusside improves salt tolerance in wheat (Triticum aestivum L.) by enhancing physiological and biochemical parameters. <i>Plant Physiology and Biochemistry</i> , 2017 , 119, 50-5	5 5 ·4	74
329	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
328	Responses of wheat (Triticum aestivum) 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
327	Alleviation of cadmium (Cd) toxicity and minimizing its uptake in wheat (Triticum aestivum) by using organic carbon sources in Cd-spiked soil. <i>Environmental Pollution</i> , 2018 , 241, 557-565	9.3	72
326	Foliar application of ascorbate enhances the physiological and biochemical attributes of maize (Zea mays L.) cultivars under drought stress. <i>Archives of Agronomy and Soil Science</i> , 2015 , 61, 1659-1672	2	72
325	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (Oryza sativa). <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	72
324	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
323	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
322	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
321	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
320	The accumulation of cadmium in wheat (Triticum aestivum) as influenced by zinc oxide nanoparticles and soil moisture conditions. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 1985	5 9 -198	76 6
319	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
318	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
317	Impact of different amendments on biochemical responses of sesame (Sesamum indicum L.) plants grown in lead-cadmium contaminated soil. <i>Plant Physiology and Biochemistry</i> , 2018 , 132, 345-355	5.4	61
316	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
315	Jute: A Potential Candidate for Phytoremediation of Metals-A Review. <i>Plants</i> , 2020 , 9,	4.5	60

314	Iodine biofortification of wheat, rice and maize through fertilizer strategy. Plant and Soil, 2017, 418, 319	9 ₄ β 3 5	59
313	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
312	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
311	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
310	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
309	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
308	Citric acid enhanced the antioxidant defense system and chromium uptake by Lemna minor L. grown in hydroponics under Cr stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 17669-17	678	54
307	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
306	Split application of silicon in cadmium (Cd) spiked alkaline soil plays a vital role in decreasing Cd accumulation in rice (Oryza sativa L.) grains. <i>Chemosphere</i> , 2019 , 226, 454-462	8.4	52
305	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
304	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
303	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
302	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 212, 111978	7	50
301	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. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111627	7	50
300	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
299	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
298	Flax L.): A Potential Candidate for Phytoremediation? Biological and Economical Points of View. <i>Plants</i> , 2020 , 9,	4.5	48
297	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

296	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	
295	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	
294	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	
293	Assessing the Correlations between Different Traits in Copper-Sensitive and Copper-Resistant Varieties of Jute (L.). <i>Plants</i> , 2019 , 8,	4.5	46	
292	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	
291	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	
290	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	
289	Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. <i>Sustainability</i> , 2017 , 9, 266	3.6	43	
288	Synergistic effect of silicon and selenium on the alleviation of cadmium toxicity in rice plants. Journal of Hazardous Materials, 2021 , 401, 123393	12.8	43	
287	Effect of different amendments on rice (Oryza sativa 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	
286	Efficiency of various sewage sludges and their biochars in improving selected soil properties and growth of wheat (Triticum aestivum). <i>Journal of Environmental Management</i> , 2018 , 223, 607-613	7.9	42	
285	Photosynthesis and growth response of maize (Zea mays L.) hybrids exposed to cadmium stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 5521-5529	5.1	41	
284	Role of ZincIlysine 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	
283	Role of iron-lysine on morpho-physiological traits and combating chromium toxicity in rapeseed (Brassica napus L.) plants irrigated with different levels of tannery wastewater. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 70-84	5.4	41	
282	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	
281	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	
280	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	
279	Comparative efficacy of organic and inorganic silicon fertilizers on antioxidant response, Cd/Pb accumulation and health risk assessment in wheat (Triticum aestivum L.). <i>Environmental Pollution</i> , 2019 , 255, 113146	9.3	39	

278	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
277	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
276	Promotive role of 5-aminolevulinic acid on chromium-induced morphological, photosynthetic, and oxidative changes in cauliflower (Brassica oleracea botrytis L.). <i>Environmental Science and Pollution Research</i> , 2017 , 24, 8814-8824	5.1	38
275	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
274	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (Solanum lycopersicum L.) by minimizing cobalt uptake. <i>Chemosphere</i> , 2021 , 263, 128169	8.4	38
273	Foliar application of silicon nanoparticles affected the growth, vitamin C, flavonoid, and antioxidant enzyme activities of coriander (Coriandrum sativum L.) plants grown in lead (Pb)-spiked soil. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 1417-1425	5.1	38
272	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
271	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. <i>Plants</i> , 2020 , 9,	4.5	37
270	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
269	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
268	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
267	Cadmium uptake and translocation: selenium and silicon loles in Cd detoxification for the production of low Cd crops: a critical review. <i>Chemosphere</i> , 2021 , 273, 129690	8.4	36
266	EDTA-assisted phytoextraction of lead and cadmium by Pelargonium cultivars grown on spiked soil. <i>International Journal of Phytoremediation</i> , 2019 , 21, 101-110	3.9	35
265	Physiological and biochemical mechanisms of silicon-induced copper stress tolerance in cotton (Gossypium hirsutum L.). <i>Acta Physiologiae Plantarum</i> , 2016 , 38, 1	2.6	35
264	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
263	Residual effects of biochar and phosphorus on growth and nutrient accumulation by maize (Zea mays L.) amended with microbes in texturally different soils. <i>Chemosphere</i> , 2020 , 238, 124710	8.4	34
262	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
261	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

260	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
259	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
258	Glycinebetaine alleviates the chromium toxicity in Brassica oleracea 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
257	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
256	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. <i>Sustainability</i> , 2020 , 12, 5559	3.6	32
255	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
254	Silicon mediated improvement in the growth and ion homeostasis by decreasing Na uptake in maize (Zea mays L.) cultivars exposed to salinity stress. <i>Plant Physiology and Biochemistry</i> , 2021 , 158, 208-218	5.4	32
253	Isolation and characterization of lead (Pb) resistant microbes and their combined use with silicon nanoparticles improved the growth, photosynthesis and antioxidant capacity of coriander (Coriandrum sativum L.) under Pb stress. <i>Environmental Pollution</i> , 2020 , 266, 114982	9.3	31
252	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 456-480	4.7	31
251	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
250	Engineered ZnO and CuO Nanoparticles Ameliorate Morphological and Biochemical Response in Tissue Culture Regenerants of Candyleaf (). <i>Molecules</i> , 2020 , 25,	4.8	29
249	Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat. <i>Chemosphere</i> , 2020 , 244, 125548	8.4	29
248	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
247	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	29
246	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
245	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
244	Green synthesized silver nanoparticles induced cytogenotoxic and genotoxic changes in Allium cepa L. varies with nanoparticles doses and duration of exposure. <i>Chemosphere</i> , 2020 , 243, 125430	8.4	28
243	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium Pseudomonas aeruginosa and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017 , 39, 1583-1593	4.7	27

242	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
241	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
240	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
239	A review on remediation of harmful dyes through visible light-driven WO3 photocatalytic nanomaterials. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 4975-4988	3.3	26
238	Individual and combined application of EDTA and citric acid assisted phytoextraction of copper using jute (Corchorus capsularis L.) seedlings. <i>Environmental Technology and Innovation</i> , 2020 , 19, 10089	9₹	26
237	Reduces Cadmium Accumulation and Improves Growth and Antioxidant Defense System in Two Wheat (L.) Varieties. <i>Plants</i> , 2020 , 9,	4.5	26
236	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, 110	0365	26
235	Boron supply alleviates cadmium toxicity in rice (Oryza sativa L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. <i>Chemosphere</i> , 2021 , 266, 128938	8.4	26
234	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
233	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (Triticum aestivum L.). <i>Scientific Reports</i> , 2019 , 9, 12924	4.9	25
232	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
231	Lead Toxicity in Cereals and Its Management Strategies: a Critical Review. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	25
230	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
229	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
228	Role of organic and inorganic amendments in alleviating heavy metal stress in oilseed crops 2017 , 224-	235	24
227	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
226	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
225	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 ,	3.4	23

(2020-2017)

224	Microwave irradiation and citric acid assisted seed germination and phytoextraction of nickel (Ni) by Brassica napus L.: morpho-physiological and biochemical alterations under Ni stress. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21050-21064	5.1	23
223	IronIlysine Mediated Alleviation of Chromium Toxicity in Spinach (Spinacia oleracea 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
222	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
221	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
22 0	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
219	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
218	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
217	Potential of Duckweed (Lemna minor) for the Phytoremediation of Landfill Leachate. <i>Journal of Chemistry</i> , 2018 , 2018, 1-9	2.3	22
216	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
215	Lead toxicity induced phytotoxic effects on mung bean can be relegated by lead tolerant Bacillus subtilis (PbRB3). <i>Chemosphere</i> , 2019 , 234, 70-80	8.4	21
214	Prevailing trends of climatic extremes across Indus-Delta of Sindh-Pakistan. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 1101-1117	3	21
213	Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. <i>Sustainability</i> , 2020 , 12, 3731	3.6	21
212	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
211	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
210	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
209	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
208	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
207	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

Zinc-lysine prevents chromium-induced morphological, photosynthetic, and oxidative alterations in 206 spinach irrigated with tannery wastewater. Environmental Science and Pollution Research, **2019**, 26, $2895\overline{1}^{-1}2896\overline{1}^{\circ}$ Potential impact of biochar types and microbial inoculants on growth of onion plant in differently 205 20 7.9 textured and phosphorus limited soils. Journal of Environmental Management, 2019, 247, 672-680 Phytoremediation of landfill leachate waste contaminants through floating bed technique using 204 3.9 20 water hyacinth and water lettuce. International Journal of Phytoremediation, 2019, 21, 1356-1367 Assessment of grain yield indices in response to drought stress in wheat (L.). Saudi Journal of 203 20 4 Biological Sciences, **2020**, 27, 1818-1823 Effect of poultry litter biochar on chromium (Cr) bioavailability and accumulation in spinach 1.8 202 20 (Spinacia oleracea) grown in Cr-polluted soil. Arabian Journal of Geosciences, 2019, 12, 1 Characterization and chromium biosorption potential of extruded polymeric substances from Synechococcus mundulus induced by acute dose of gamma irradiation. Environmental Science and 201 5.1 19 Pollution Research, 2019, 26, 31998-32012 Accumulation potential and tolerance response of Typha latifolia L. under citric acid assisted 8.4 200 19 phytoextraction of lead and mercury. Chemosphere, 2020, 257, 127247 Kinetics and controlled release of lidocaine from novel carrageenan and alginate-based blend 199 19 7.9 hydrogels. International Journal of Biological Macromolecules, 2020, 147, 67-78 Effects of selenium on the uptake of toxic trace elements by crop plants: A review. Critical Reviews 198 11.1 19 in Environmental Science and Technology, 2020, 1-36 Combined effect of Bacillus fortis IAGS 223 and zinc oxide nanoparticles to alleviate cadmium 197 5.4 19 phytotoxicity in Cucumis melo. Plant Physiology and Biochemistry, 2021, 158, 1-12 Effects of Rhizophagus clarus and biochar on growth, photosynthesis, nutrients, and cadmium (Cd) concentration of maize (Zea mays) grown in Cd-spiked soil. Environmental Science and Pollution 196 5.1 18 Research, 2019, 26, 20689-20700 Contrasting Effects of Organic and Inorganic Amendments on Reducing Lead Toxicity in Wheat. 2.7 18 195 Bulletin of Environmental Contamination and Toxicology, 2017, 99, 642-647 5-Aminolevulinic Acid-Induced Heavy Metal Stress Tolerance and Underlying Mechanisms in Plants. 18 194 4.7 Journal of Plant Growth Regulation, 2018, 37, 1423-1436 Green magnesium oxide nanoparticles-based modulation of cellular oxidative repair mechanisms to reduce arsenic uptake and translocation in rice (Oryza sativa L.) plants. Environmental Pollution, 18 193 9.3 **2021**, 288, 117785 nCOV-19 peptides mass fingerprinting identification, binding, and blocking of inhibitors flavonoids and anthraquinone of and hydroxychloroquine. Journal of Biomolecular Structure and Dynamics, 3.6 192 17 **2021**, 39, 4089-4099 Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. 12.8 191 17 Journal of Hazardous Materials, 2020, 390, 121976 Silver nanoparticles improved the plant growth and reduced the sodium and chlorine accumulation 190 5.1 17 in pearl millet: a life cycle study. Environmental Science and Pollution Research, 2021, 28, 13712-13724 Role of Bioremediation Agents (Bacteria, Fungi, and Algae) in Alleviating Heavy Metal Toxicity 2017 189 16 , 517-537

(2021-2020)

188	Citric acid enhanced phytoextraction of nickel (Ni) and alleviate Mentha piperita (L.) from Ni-induced physiological and biochemical damages. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 27010-27022	5.1	16
187	Effect of polar aprotic solvents on hydroxyethyl cellulose-based gel polymer electrolyte. <i>Ionics</i> , 2018 , 24, 1955-1964	2.7	16
186	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
185	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
184	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
183	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
182	Biochar for sustainable soil and environment: a comprehensive review. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	16
181	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
180	Effects of biochar on growth, photosynthesis, and chromium (Cr) uptake in Brassica rapa L. under Cr stress. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	16
179	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
178	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-	<i>1</i> 7791	15
177	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
176	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
175	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
174	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 ^{8.4}	14
173	Effects of biochar and foliar application of selenium on the uptake and subcellular distribution of chromium in Ipomoea aquatica in chromium-polluted soils. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 206, 111184	7	14
172	TiO nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice (Oryza sativa L.), soil enzymatic activities and plant growth. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 213, 111977	7	14
171	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 221, 112437	7	14

170	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
169	Arsenic behavior in soil-plant system and its detoxification mechanisms in plants: A review. <i>Environmental Pollution</i> , 2021 , 286, 117389	9.3	13
168	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
167	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, 338	2 1 -338	3 12
166	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
165	Characterization of mycotoxins from entomopathogenic fungi (Cordyceps fumosorosea) 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
164	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
163	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
162	Gaseous pollutants from brick kiln industry decreased the growth, photosynthesis, and yield of wheat (Triticum aestivum L.). <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 267	3.1	12
161	Dopamine Alleviates Hydrocarbon Stress in Brassica oleracea through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems. <i>Chemosphere</i> , 2021 , 270, 128633	8.4	12
160	Effect of the entomopathogenic fungus, Beauveria bassiana, combined with diatomaceous earth on the red flour beetle, Tribolium castaneum (Herbst) (Tenebrionidae: Coleoptera). <i>Egyptian Journal of Biological Pest Control</i> , 2019 , 29,	2	11
159	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
158	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
157	Investigation into arsenic retention in arid contaminated soils with biochar application. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	11
156	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
155	Implementation of Floating Treatment Wetlands for Textile Wastewater Management: A Review. <i>Sustainability</i> , 2020 , 12, 5801	3.6	11
154	Integrated Nutrient Management Enhances Soil Quality and Crop Productivity in Maize-Based Cropping System. <i>Sustainability</i> , 2020 , 12, 10214	3.6	11
153	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

152	Selective Removal of Hexavalent Chromium from Wastewater by Rice Husk: Kinetic, Isotherm and Spectroscopic Investigation. <i>Water (Switzerland)</i> , 2021 , 13, 263	3	11
151	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
150	Remediating Cadmium-Contaminated Soils by Growing Grain Crops Using Inorganic Amendments 2015 , 367-396		10
149	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
148	Heavy metal remediation and resistance mechanism of Aeromonas, Bacillus, and Pseudomonas: A review. <i>Critical Reviews in Environmental Science and Technology</i> ,1-48	11.1	10
147	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
146	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	- 2 23930	5 ¹⁰
145	Enhanced performance of OSR-3 in combination with putrescine ammeliorated hydrocarbon stress in. <i>International Journal of Phytoremediation</i> , 2021 , 23, 119-129	3.9	10
144	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
143	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, 1173	48 ³	10
142	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
141	Evaluation of the entomopathogenic fungi as a non-traditional control of the rice leaf roller, Cnaphalocrocis medinalis (Guenee) (Lepidoptera: Pyralidae) under controlled conditions. <i>Egyptian Journal of Biological Pest Control</i> , 2019 , 29,	2	9
140	Opportunities and challenges in the remediation of metal-contaminated soils by using tobacco (Nicotiana tabacum L.): a critical review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 18053-1	8 ₫70	9
139	Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. <i>Plants</i> , 2020 , 9,	4.5	9
138	Restoration of Degraded Soil for Sustainable Agriculture 2020 , 31-81		9
137	Biomass for renewable energy production in Pakistan: current state and prospects. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	9
136	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
135	Multi-element uptake and growth responses of Rice (Oryza sativa L.) to TiO nanoparticles applied in different textured soils. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 215, 112149	7	9

134	Effect of alkaline and chemically engineered biochar on soil properties and phosphorus bioavailability in maize. <i>Chemosphere</i> , 2021 , 266, 128980	8.4	9
133	Residual impact of biochar on cadmium uptake by rice (Oryza sativa L.) grown in Cd-contaminated soil. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	9
132	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
131	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, 3620	0 5 -362	225
130	Recent Advances in Arsenic Accumulation in Rice 2019 , 385-398		8
129	Effect of biochar and compost on cadmium bioavailability and its uptake by wheatfice cropping system irrigated with untreated sewage water: a field study. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	8
128	Improved ionic conductivity in guar gum succinateBased polymer electrolyte membrane. <i>High Performance Polymers</i> , 2018 , 30, 993-1001	1.6	8
127	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
126	Host-pathogen interaction between Asian citrus psyllid and entomopathogenic fungus (Cordyceps fumosorosea) is regulated by modulations in gene expression, enzymatic activity and HLB-bacterial population of the host. Comparative Biochemistry and Physiology Part - C: Toxicology and	3.2	8
125	Pharmacology, 2021, 248, 109112 Interactions of nanoparticles and salinity stress at physiological, biochemical and molecular levels in plants: A review. Ecotoxicology and Environmental Safety, 2021, 225, 112769	7	8
124	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
123	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
122	Effect of gibberellic acid on growth, biomass, and antioxidant defense system of wheat (Triticum aestivum L.) under cerium oxide nanoparticle stress. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 33809-33820	5.1	7
121	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
120	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
119	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
118	⊞rocopherol Foliar Spray and Translocation Mediates Growth, Photosynthetic Pigments, Nutrient Uptake, and Oxidative Defense in Maize (Zea mays L.) under Drought Stress. <i>Agronomy</i> , 2020 , 10, 1235	3.6	7
117	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

116	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
115	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
114	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
113	Beneficial role of Azolla 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
112	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
111	Silicon elevated cadmium tolerance in wheat (Triticum aestivum L.) by endorsing nutrients uptake and antioxidative defense mechanisms in the leaves. <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 148-	1 59	7
110	Abscisic acid signaling reduced transpiration flow, regulated Na+ ion homeostasis and antioxidant enzyme activities to induce salinity tolerance in wheat (Triticum aestivum L.) seedlings. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101808	7	7
109	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
108	Solanum nigrum L.: A Novel Hyperaccumulator for the Phyto-Management of Cadmium Contaminated Soils 2019 , 451-477		6
107	Different nitrogen and biochar sources@pplication 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
106	Citric acid assisted phytoremediation of arsenic through Brassica napus L <i>Arsenic in the Environment Proceedings</i> , 2016 , 599-600		6
105	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
104	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
103	Cerium oxide nanoparticles: Advances in synthesis, prospects and application in agro-ecosystem. <i>Comprehensive Analytical Chemistry</i> , 2019 , 87, 209-250	1.9	6
102	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
101	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
100	Morphological and Physiological Responses of Plants to Cadmium Toxicity 2019 , 47-72		5
99	Straw-based biochar mediated potassium availability and increased growth and yield of cotton (Gossypium hirsutum L.). <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 963-973	4.3	5

98	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
97	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
96	Precipitation Variations under a Changing Climate from 1961\(\overline{0}\)015 in the Source Region of the Indus River. <i>Water (Switzerland)</i> , 2019 , 11, 1366	3	5
95	Fertigation of Ajwain (Trachyspermum ammi L.) with Fe-Glutamate Confers Better Plant Performance and Drought Tolerance in Comparison with FeSO4. <i>Sustainability</i> , 2020 , 12, 7119	3.6	5
94	Efficacy of Entomopathogenic Fungi Against Brown Planthopper Nilaparvata Lugens (St l) (Homoptera: Delphacidae) Under Controlled Conditions. <i>Gesunde Pflanzen</i> , 2020 , 72, 101-112	1.9	5
93	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
92	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
91	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
90	Seasonal variations of soil phosphorus and associated fertility indicators in wastewater-irrigated urban aridisol. <i>Chemosphere</i> , 2020 , 239, 124725	8.4	5
89	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
88	The Use of Silicon in Stressed Agriculture Management 2020 , 381-431		5
87	Organic Manures for Cadmium Tolerance and Remediation 2019 , 19-67		4
86	Pre-breeding of lentil (Lens culinaris Medik.) for herbicide resistance through seed mutagenesis. <i>PLoS ONE</i> , 2017 , 12, e0171846	3.7	4
85	Conductivity or rheology? Tradeoff for competing properties in the fabrication of a gel polymer electrolyte based on chitosan-barbiturate derivative. <i>Jonics</i> , 2018 , 24, 3015-3025	2.7	4
84	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
83	Cadmium immobilization in the soil and accumulation by spinach (Spinacia oleracea) depend on biochar types under controlled and field conditions. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	4
82	Regulation of Photosynthesis Under Metal Stress 2019 , 95-105		4
81	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

80	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, e026214	<i>в</i> о7	4
79	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
78	Ecophysiological response of early stage Albizia lebbeck to cadmium toxicity and biochar addition. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	4
77	Biochar Is a Potential Source of Silicon Fertilizer 2019 , 225-238		4
76	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
75	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
74	Recent progress on the heavy metals ameliorating potential of engineered nanomaterials in rice paddy: a comprehensive outlook on global food safety with nanotoxicitiy issues. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-15	11.5	4
73	Cellulose supported magnetic nanohybrids: Synthesis, physicomagnetic properties and biomedical applications-A review. <i>Carbohydrate Polymers</i> , 2021 , 267, 118136	10.3	4
72	Biochar composite with microbes enhanced arsenic biosorption and phytoextraction by Typha latifolia in hybrid vertical subsurface flow constructed wetland. <i>Environmental Pollution</i> , 2021 , 291, 1182	26 3	4
71	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
70	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
69	Comparative efficacy of raw and HNO-modified biochar derived from rice straw on vanadium transformation and its uptake by rice (Oryza sativa L.): Insights from photosynthesis, antioxidative response, and gene-expression profile. <i>Environmental Pollution</i> , 2021 , 289, 117916	9.3	4
68	Comparative effect of mesquite biochar, farmyard manure, and chemical fertilizers on soil fertility and growth of onion (Allium cepa L.). <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	3
67	Inorganic Amendments for the Remediation of Cadmium-Contaminated Soils 2019 , 113-141		3
66	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
65	Green remediation of salineBodic 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
64	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
63	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	 3	3

62	Biochar impact on microbial population and elemental composition of red soil. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3
61	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
60	Lead (Pb)-resistant bacteria inhibit Pb accumulation in dill (Anethum graveolens 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
59	Cadmium (Cd) concentration in wheat (Triticum aestivum) grown in Cd-spiked soil varies with the doses and biochar feedstock. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	3
58	Salinity mitigates cadmium-induced phytotoxicity in quinoa (Chenopodium quinoa 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
57	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, 10609	£8	3
56	Cellulose extraction of Alstonia scholaris: 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
55	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
54	Role of Nitric Oxide and Calcium Signaling in Abiotic Stress Tolerance in Plants 2020 , 563-581		2
53	Role of Mineral Nutrients in Plant Growth Under Extreme Temperatures 2018 , 499-524		2
52	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 <i>Microorganisms</i> , 2021 , 9,	4.9	2
51	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
50	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
49	In Situ Phytoremediation of Metals. Concepts and Strategies in Plant Sciences, 2020, 103-121	0.5	2
48	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
47	Rice Production, Augmentation, Escalation, and Yield Under Water Stress 2020 , 117-128		2
46	Physiological and Biochemical Response of (Regel) G. Nicholson under Acetic Acid Assisted Phytoextraction of Lead. <i>Plants</i> , 2020 , 9,	4.5	2
45	Alteration of plant physiology by the application of biochar for remediation of organic pollutants 2021 , 475-492		2

44	Metals Phytoextraction by Brassica Species 2021 , 361-384		2
43	Effects of biochar, farm manure, and pressmud on mineral nutrients and cadmium availability to wheat (Triticum aestivum L.) in Cd-contaminated soil. <i>Physiologia Plantarum</i> , 2021 , 173, 191-200	4.6	2
42	Recent Progress of Nanotoxicology in Plants 2018 , 143-174		2
41	Efficacy of Lemna minor and Typha latifolia 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
40	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
39	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
38	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
37	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
36	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
35	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
34	Chitosan-Based Smart Polymeric Hydrogels and their Prospective Applications in Biomedicine. Starch/Staerke,2100150	2.3	1
33	Chapter 2 Role of Silicon under Nutrient Deficiency 2016 , 29-46		1
32	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
31	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
30	Assessment of early physiological and biochemical responses in chia (Salvia hispanica L.) sprouts under salt stress. <i>Acta Physiologiae Plantarum</i> , 2021 , 43, 1	2.6	1
29	Do neonicotinoids better than pyrethroids for Coccinella septempunctata L. (Coleoptera: Coccinellidae)? A comparative sub-lethal indirect age-stage, two-sex life tables laboratory bioassay. International Journal of Tropical Insect Science,1	1	1
28	Synthesis of biochar from sugarcane filter-cake and its impacts on physiological performance of lettuce (Lettuce sativa) grown on cadmium contaminated soil. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	1
27	Biogenic and characterizations of new silver nanoparticles stabilized with indole acetic acid derived from Azospirillum brasilense MMGH-SADAT1, their bioactivity, and histopathological assessment in rats. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112521	7	1

26	Remediation of organic pollutants by Brassica species 2021 , 689-700		1
25	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
24	Microbe-citric acid assisted phytoremediation of chromium by castor bean (Ricinus communis L.) <i>Chemosphere</i> , 2022 , 134065	8.4	1
23	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	O
22	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	О
21	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</i>	2.5	O
20	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, 104137-104	1537	0
19	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	O
18	Synthesis, characterization, hydrolytic degradation, mathematical modeling and antibacterial activity of poly[bis((methoxyethoxy)ethoxy)phosphazene] (MEEP). <i>Polymer Bulletin</i> , 2021 , 78, 6059-607	2 ^{2.4}	O
17	Sugar-Catalyzed Synthesis of TriarylimidazolesAn Exemplary Model of Sweet Chemistry. <i>Russian Journal of Organic Chemistry</i> , 2020 , 56, 509-513	0.7	O
16	The Sewage Sludge Biochar and Its Composts Influence the Phosphate Sorption in an Alkaline Calcareous Soil. Sustainability, 2021, 13, 1779	3.6	O
15	Genome-Wide Expression and Physiological Profiling of Pearl Millet Genotype Reveal the Biological Pathways and Various Gene Clusters Underlying Salt Resistance Frontiers in Plant Science, 2022 , 13, 849618	6.2	O
14	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
13	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	O
12	Wastewater Pollution, Types and Treatment Methods Assisted Different Amendments. A Review 2022 , 293-310		0
11	Efficacy of Various Amendments for the Phytomanagement of Heavy Metal Contaminated Sites and Sustainable Agriculture. A Review 2022 , 239-272		O
10	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
9	Nickel Toxicity Interferes with NO3/NH4+ Uptake and Nitrogen Metabolic Enzyme Activity in Rice (Oryza sativa L.). <i>Plants</i> , 2022 , 11, 1401	4.5	O

8 Plant Nutrients and Cadmium Stress Tolerance **2019**, 319-333

7	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
6	Rice straw biochar in combination with farmyard manure mitigates bromoxynil toxicity in wheat (Triticum aestivum L.) <i>Chemosphere</i> , 2022 , 295, 133854	8.4
5	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
4	Influence of Metals and Metalloids on Microbial Diversity of Soil and Ecosystem 2020 , 95-111	
3	Heavy Metals Induced Physiological and Biochemical Changes in Fenugreek (Trigonella foenum-graceum L.) 2021 , 239-258	
2	Heavy Metals-Induced Morphophysiological and Biochemical Changes in Mentha piperita L. 2021 , 223-	237
1	Environmental and Health Effects of Heavy Metals and Their Treatment Methods. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022 , 143-175	0.5