Yong Sik Ok

List of Publications by Citations

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

714 papers	46,107 citations	110 h-index	179 g-index
765 ext. papers	58,944 ext. citations	8.8 avg, IF	8.36 L-index

#	Paper	IF	Citations
714	Biochar as a sorbent for contaminant management in soil and water: a review. *Chemosphere*, **2014**, 99, 19-33	8.4	2439
713	Organic and inorganic contaminants removal from water with biochar, a renewable, low cost and sustainable adsorbent--a critical review. *Bioresource Technology*, **2014**, 160, 191-202	11	1406
712	Occurrences and removal of pharmaceuticals and personal care products (PPCPs) in drinking water and water/sewage treatment plants: A review. *Science of the Total Environment*, **2017**, 596-597, 303-320	10.2	805
711	Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. *Bioresource Technology*, **2012**, 118, 536-44	11	752
710	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. *Chemosphere*, **2016**, 148, 276-91	8.4	703
709	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 406-433	11.1	703
708	Review on nano zerovalent iron (nZVI): From synthesis to environmental applications. *Chemical Engineering Journal*, **2016**, 287, 618-632	14.7	500
707	Surface functional groups of carbon-based adsorbents and their roles in the removal of heavy metals from aqueous solutions: A critical review. *Chemical Engineering Journal*, **2019**, 366, 608-621	14.7	435
706	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation—A review. *Earth-Science Reviews*, **2017**, 171, 621-645	10.2	396
705	Competitive adsorption of heavy metals onto sesame straw biochar in aqueous solutions. *Chemosphere*, **2016**, 142, 77-83	8.4	374
704	Effect of bamboo and rice straw biochars on the mobility and redistribution of heavy metals (Cd, Cu, Pb and Zn) in contaminated soil. *Journal of Environmental Management*, **2017**, 186, 285-292	7.9	364
703	Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. *Environmental Science and Pollution Research*, **2016**, 23, 17859-79	5.1	361
702	Biochar application to low fertility soils: A review of current status, and future prospects. *Geoderma* , **2019**, 337, 536-554	6.7	357
701	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. *Environment International*, **2020**, 134, 105046	12.9	352
700	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. *Bioresource Technology*, **2017**, 246, 254-270	11	300
699	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. *Environment International*, **2019**, 124, 521-532	12.9	287
698	Effect of metal and metal oxide nanoparticles on growth and physiology of globally important food crops: A critical review. *Journal of Hazardous Materials*, **2017**, 322, 2-16	12.8	286

697	Occurrence and Environmental Fate of Veterinary Antibiotics in the Terrestrial Environment. *Water, Air, and Soil Pollution*, **2011**, 214, 163-174	2.6	280
696	Mechanisms of biochar-mediated alleviation of toxicity of trace elements in plants: a critical review. *Environmental Science and Pollution Research*, **2016**, 23, 2230-48	5.1	279
695	Cadmium minimization in wheat: A critical review. *Ecotoxicology and Environmental Safety*, **2016**, 130, 43-53	7	276
694	Minireview of potential applications of hydrochar derived from hydrothermal carbonization of biomass. *Journal of Industrial and Engineering Chemistry*, **2018**, 57, 15-21	6.3	268
693	Trichloroethylene adsorption by pine needle biochars produced at various pyrolysis temperatures. *Bioresource Technology*, **2013**, 143, 615-22	11	266
692	Effect of biochar on cadmium bioavailability and uptake in wheat (Triticum aestivum L.) grown in a soil with aged contamination. *Ecotoxicology and Environmental Safety*, **2017**, 140, 37-47	7	252
691	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. *Chemosphere*, **2017**, 182, 90-105	8.4	232
690	Effects of soil dilution and amendments (mussel shell, cow bone, and biochar) on Pb availability and phytotoxicity in military shooting range soil. *Ecotoxicology and Environmental Safety*, **2012**, 79, 225-231	7	231
689	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. *International Materials Reviews*, **2019**, 64, 216-247	16.1	228
688	Enhanced sulfamethazine removal by steam-activated invasive plant-derived biochar. *Journal of Hazardous Materials*, **2015**, 290, 43-50	12.8	226
687	Pyrolysis condition affected sulfamethazine sorption by tea waste biochars. *Bioresource Technology* , **2014**, 166, 303-8	11	225
686	Biochar for crop production: potential benefits and risks. *Journal of Soils and Sediments*, **2017**, 17, 685-716	5.4	222
685	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. *Environmental Pollution*, **2018**, 232, 31-41	9.3	222
684	Applications of biochar in redox-mediated reactions. *Bioresource Technology*, **2017**, 246, 271-281	11	218
683	Biochar soil amendment on alleviation of drought and salt stress in plants: a critical review. *Environmental Science and Pollution Research*, **2017**, 24, 12700-12712	5.1	217
682	Biochar technology in wastewater treatment: A critical review. *Chemosphere*, **2020**, 252, 126539	8.4	209
681	Production of bioplastic through food waste valorization. *Environment International*, **2019**, 127, 625-644	12.9	200
680	Interaction of arsenic with biochar in soil and water: A critical review. *Carbon*, **2017**, 113, 219-230	10.4	200

679	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. *Critical Reviews in Plant Sciences*, **2014**, 33, 374-391	5.6	197
678	A critical review on sustainable biochar system through gasification: Energy and environmental applications. *Bioresource Technology*, **2017**, 246, 242-253	11	188
677	Biochar for composting improvement and contaminants reduction. A review. *Bioresource Technology*, **2017**, 246, 193-202	11	187
676	Speciation and phytoavailability of lead and antimony in a small arms range soil amended with mussel shell, cow bone and biochar: EXAFS spectroscopy and chemical extractions. *Chemosphere*, **2014**, 95, 433-41	8.4	186
675	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. *Chemosphere*, **2017**, 178, 110-118	8.4	185
674	Engineered/designer biochar for the removal of phosphate in water and wastewater. *Science of the Total Environment*, **2018**, 616-617, 1242-1260	10.2	185
673	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. *Chemosphere*, **2017**, 174, 593-603	8.4	184
672	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. *Bioresource Technology*, **2018**, 269, 465-475	11	182
671	Designer carbon nanotubes for contaminant removal in water and wastewater: A critical review. *Science of the Total Environment*, **2018**, 612, 561-581	10.2	180
670	Cadmium phytoremediation potential of Brassica crop species: A review. *Science of the Total Environment*, **2018**, 631-632, 1175-1191	10.2	177
669	Response of microbial communities to biochar-amended soils: a critical review. *Biochar*, **2019**, 1, 3-22	10	175
668	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. *Environment International*, **2019**, 126, 336-345	12.9	175
667	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. *Critical Reviews in Environmental Science and Technology*, **2019**, 49, 1027-1078	11.1	171
666	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. *Nature Reviews Earth & Environment*, **2020**, 1, 366-381	30.2	171
665	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. *Environment International*, **2019**, 131, 104937	12.9	169
664	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. *Chemosphere*, **2018**, 200, 274-282	8.4	168
663	Effects of rapeseed residue on lead and cadmium availability and uptake by rice plants in heavy metal contaminated paddy soil. *Chemosphere*, **2011**, 85, 677-82	8.4	168
662	Integrated adsorption and photocatalytic degradation of volatile organic compounds (VOCs) using carbon-based nanocomposites: A critical review. *Chemosphere*, **2019**, 218, 845-859	8.4	165

661	A green biochar/iron oxide composite for methylene blue removal. *Journal of Hazardous Materials*, **2020**, 384, 121286	12.8	165
660	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. *Journal of Hazardous Materials*, **2019**, 373, 820-834	12.8	164
659	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. *Environment International*, **2019**, 127, 819-847	12.9	160
658	Biochar-induced concomitant decrease in ammonia volatilization and increase in nitrogen use efficiency by wheat. *Chemosphere*, **2016**, 142, 120-7	8.4	159
657	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. *Water Research*, **2018**, 137, 130-143	12.5	158
656	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. *Environment International*, **2019**, 124, 320-328	12.9	157
655	Biochar-based engineered composites for sorptive decontamination of water: A review. *Chemical Engineering Journal*, **2019**, 372, 536-550	14.7	157
654	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. *Chemical Engineering Journal*, **2017**, 328, 246-273	14.7	156
653	SMART biochar technology—A shifting paradigm towards advanced materials and healthcare research. *Environmental Technology and Innovation*, **2015**, 4, 206-209	7	155
652	Effect of biochar on heavy metal immobilization and uptake by lettuce (Lactuca sativa L.) in agricultural soil. *Environmental Earth Sciences*, **2015**, 74, 1249-1259	2.9	153
651	Nanoarchitectured Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. *Advanced Materials*, **2020**, 32, e1907035	24	153
650	Biochar production from date palm waste: Charring temperature induced changes in composition and surface chemistry. *Journal of Analytical and Applied Pyrolysis*, **2015**, 115, 392-400	6	152
649	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. *Environment International*, **2019**, 126, 747-761	12.9	149
648	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. *Ecotoxicology and Environmental Safety*, **2016**, 133, 218-25	7	149
647	Heavy metal adsorption by a formulated zeolite-Portland cement mixture. *Journal of Hazardous Materials*, **2007**, 147, 91-6	12.8	149
646	Biochar-induced changes in soil properties affected immobilization/mobilization of metals/metalloids in contaminated soils. *Journal of Soils and Sediments*, **2017**, 17, 717-730	3.4	148
645	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. *Journal of Environmental Management*, **2019**, 241, 458-467	7.9	145
644	Green synthesis of gamma-valerolactone (GVL) through hydrogenation of biomass-derived levulinic acid using non-noble metal catalysts: A critical review. *Chemical Engineering Journal*, **2019**, 372, 992-1006	14.7	144

643	Biochar affects the dissolved and colloidal concentrations of Cd, Cu, Ni, and Zn and their phytoavailability and potential mobility in a mining soil under dynamic redox-conditions. *Science of the Total Environment*, **2018**, 624, 1059-1071	10.2	144
642	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. *Environment International*, **2018**, 119, 1-19	12.9	143
641	A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. *Energy Conversion and Management*, **2020**, 212, 112792	10.6	142
640	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. *Geoderma*, **2018**, 332, 100-108	6.7	142
639	Pyrolysis process of agricultural waste using CO2 for waste management, energy recovery, and biochar fabrication. *Applied Energy*, **2017**, 185, 214-222	10.7	142
638	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. *Environmental Earth Sciences*, **2010**, 61, 1301-1308	2.9	141
637	Lead and copper immobilization in a shooting range soil using soybean stover- and pine needle-derived biochars: Chemical, microbial and spectroscopic assessments. *Journal of Hazardous Materials*, **2016**, 301, 179-86	12.8	140
636	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. *Science of the Total Environment*, **2018**, 625, 1567-1573	10.2	139
635	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. *Chemical Engineering Journal*, **2019**, 375, 121983	14.7	138
634	Microplastics as pollutants in agricultural soils. *Environmental Pollution*, **2020**, 265, 114980	9.3	137
633	Eggshell and coral wastes as low cost sorbents for the removal of Pb2+, Cd2+ and Cu2+ from aqueous solutions. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 198-204	6.3	137
632	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. *Journal of Hazardous Materials*, **2019**, 365, 665-673	12.8	136
631	Biochar enhances the cadmium tolerance in spinach (Spinacia oleracea) through modification of Cd uptake and physiological and biochemical attributes. *Environmental Science and Pollution Research*, **2016**, 23, 21385-21394	5.1	134
630	A sustainable biochar catalyst synergized with copper heteroatoms and CO2 for singlet oxygenation and electron transfer routes. *Green Chemistry*, **2019**, 21, 4800-4814	10	133
629	Effects of polyacrylamide, biopolymer, and biochar on decomposition of soil organic matter and plant residues as determined by 14C and enzyme activities. *European Journal of Soil Biology*, **2012**, 48, 1-10	2.9	133
628	Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. *Chemosphere*, **2016**, 142, 64-71	8.4	131
627	Immobilization of lead in a Korean military shooting range soil using eggshell waste: an integrated mechanistic approach. *Journal of Hazardous Materials*, **2012**, 209-210, 392-401	12.8	128
626	Advances and future directions of biochar characterization methods and applications. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 2275-2330	11.1	128

625	Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars from tea waste and rice husks. *Chemosphere*, **2016**, 150, 781-789	8.4	127
624	Alginate-based composites for environmental applications: A critical review. *Critical Reviews in Environmental Science and Technology*, **2018**, 49, 318-356	11.1	127
623	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. *Bioresource Technology*, **2020**, 312, 123613	11	124
622	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. *Green Chemistry*, **2019**, 21, 1267-1281	10	124
621	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 467-499	11.1	123
620	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. *Environment International*, **2020**, 134, 105281	12.9	123
619	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. *Science of the Total Environment*, **2018**, 621, 1642-1651	10.2	122
618	Sorption and transport of sulfamethazine in agricultural soils amended with invasive-plant-derived biochar. *Journal of Environmental Management*, **2014**, 141, 95-103	7.9	120
617	Ameliorants to immobilize Cd in rice paddy soils contaminated by abandoned metal mines in Korea. *Environmental Geochemistry and Health*, **2011**, 33 Suppl 1, 23-30	4.7	119
616	Impact of biochar properties on soil conditions and agricultural sustainability: A review. *Land Degradation and Development*, **2018**, 29, 2124-2161	4.4	118
615	Veterinary antibiotics contamination in water, sediment, and soil near a swine manure composting facility. *Environmental Earth Sciences*, **2014**, 71, 1433-1440	2.9	118
614	Microwave vacuum pyrolysis of waste plastic and used cooking oil for simultaneous waste reduction and sustainable energy conversion: Recovery of cleaner liquid fuel and techno-economic analysis. *Renewable and Sustainable Energy Reviews*, **2019**, 115, 109359	16.2	116
613	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. *Chemosphere*, **2016**, 144, 2516-21	8.4	115
612	Sustainable in situ remediation of recalcitrant organic pollutants in groundwater with controlled release materials: A review. *Journal of Controlled Release*, **2018**, 283, 200-213	11.7	115
611	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. *Journal of Hazardous Materials*, **2019**, 374, 412-419	12.8	114
610	A combination of ferric nitrate/EDDS-enhanced washing and sludge-derived biochar stabilization of metal-contaminated soils. *Science of the Total Environment*, **2018**, 616-617, 572-582	10.2	114
609	Adsorption of Cd by peanut husks and peanut husk biochar from aqueous solutions. *Ecological Engineering*, **2016**, 87, 240-245	3.9	113
608	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. *Journal of Environmental Management*, **2016**, 166, 131-9	7.9	113

607	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. *Bioresource Technology*, **2019**, 291, 121878	11	113
606	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. *Environment International*, **2019**, 122, 357-362	12.9	111
605	Impacts of biochar application on upland agriculture: A review. *Journal of Environmental Management*, **2019**, 234, 52-64	7.9	110
604	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (Gracilaria lemaneiformis) for production of levulinic acid and algae hydrochar. *Bioresource Technology*, **2019**, 273, 251-258	11	108
603	Immobilization of lead in contaminated firing range soil using biochar. *Environmental Science and Pollution Research*, **2013**, 20, 8464-71	5.1	107
602	Distribution and accumulative pattern of tetracyclines and sulfonamides in edible vegetables of cucumber, tomato, and lettuce. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 398-405	5.7	107
601	Stabilization of Pb and Cd contaminated soils and soil quality improvements using waste oyster shells. *Environmental Geochemistry and Health*, **2011**, 33, 83-91	4.7	105
600	Effect of biochar on reclaimed tidal land soil properties and maize (Zea mays L.) response. *Chemosphere*, **2016**, 142, 153-9	8.4	102
599	The roles of biochar as green admixture for sediment-based construction products. *Cement and Concrete Composites*, **2019**, 104, 103348	8.6	101
598	Kinetic study on phosphate removal from aqueous solution by biochar derived from peanut shell as renewable adsorptive media. *International Journal of Environmental Science and Technology*, **2015**, 12, 3363-3372	3.3	101
597	Enhancement of chromate reduction in soils by surface modified biochar. *Journal of Environmental Management*, **2017**, 186, 277-284	7.9	100
596	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. *Journal of Hazardous Materials*, **2019**, 365, 684-694	12.8	100
595	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. *Soil Use and Management*, **2020**, 36, 358-386	3.1	100
594	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. *Bioresource Technology*, **2017**, 237, 222-230	11	99
593	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. *Bioresource Technology*, **2018**, 252, 76-82	11	99
592	Biorenewable hydrogen production through biomass gasification: A review and future prospects. *Environmental Research*, **2020**, 186, 109547	7.9	99
591	Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. *Chemosphere*, **2017**, 174, 515-523	8.4	98
590	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. *Journal of Cleaner Production*, **2020**, 270, 122462	10.3	97

589	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. *Chemosphere*, **2018**, 198, 450-459	8.4	97
588	Decline in extractable antibiotics in manure-based composts during composting. *Waste Management*, **2012**, 32, 110-6	8.6	97
587	Application of eggshell waste for the immobilization of cadmium and lead in a contaminated soil. *Environmental Geochemistry and Health*, **2011**, 33 Suppl 1, 31-9	4.7	97
586	Invasive plant-derived biochar inhibits sulfamethazine uptake by lettuce in soil. *Chemosphere*, **2014**, 111, 500-4	8.4	96
585	Effects of polyacrylamide, biopolymer and biochar on the decomposition of 14C-labelled maize residues and on their stabilization in soil aggregates. *European Journal of Soil Science*, **2013**, 64, 488-499	3.4	96
584	Biochar increased water holding capacity but accelerated organic carbon leaching from a sloping farmland soil in China. *Environmental Science and Pollution Research*, **2016**, 23, 995-1006	5.1	94
583	Clay-biochar composites for sorptive removal of tetracycline antibiotic in aqueous media. *Journal of Environmental Management*, **2019**, 238, 315-322	7.9	94
582	Biochar as green additives in cement-based composites with carbon dioxide curing. *Journal of Cleaner Production*, **2020**, 258, 120678	10.3	93
581	Antimonate and antimonite adsorption by a polyvinyl alcohol-stabilized granular adsorbent containing nanoscale zero-valent iron. *Chemical Engineering Journal*, **2014**, 247, 250-257	14.7	93
580	Chromium(VI) sorption efficiency of acid-activated banana peel over organo-montmorillonite in aqueous solutions. *International Journal of Phytoremediation*, **2017**, 19, 605-613	3.9	93
579	Effects of calcium carbonate on pyrolysis of sewage sludge. *Energy*, **2018**, 153, 726-731	7.9	92
578	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. *Environmental Science & Technology*, **2020**, 54, 14797-14814	10.3	92
577	Lead-based paint remains a major public health concern: A critical review of global production, trade, use, exposure, health risk, and implications. *Environment International*, **2018**, 121, 85-101	12.9	92
576	A critical review of ferrate(VI)-based remediation of soil and groundwater. *Environmental Research*, **2018**, 160, 420-448	7.9	91
575	Surface complexation modeling and spectroscopic evidence of antimony adsorption on iron-oxide-rich red earth soils. *Journal of Colloid and Interface Science*, **2013**, 406, 217-24	9.3	90
574	Effect of biochar on alleviation of cadmium toxicity in wheat (Triticum aestivum L.) grown on Cd-contaminated saline soil. *Environmental Science and Pollution Research*, **2018**, 25, 25668-25680	5.1	89
573	Exploring the arsenic removal potential of various biosorbents from water. *Environment International*, **2019**, 123, 567-579	12.9	89
572	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. *Advances in Agronomy*, **2019**, 1-107	7.7	88

571	The role of biochar, natural iron oxides, and nanomaterials as soil amendments for immobilizing metals in shooting range soil. *Environmental Geochemistry and Health*, **2015**, 37, 931-42	4.7	88
570	Phosphate-assisted phytoremediation of arsenic by Brassica napus and Brassica juncea: Morphological and physiological response. *International Journal of Phytoremediation*, **2017**, 19, 670-678	3.9	87
569	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. *Chemosphere*, **2017**, 184, 197-206	8.4	87
568	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. *Science of the Total Environment*, **2020**, 698, 134112	10.2	87
567	Soil biota, antimicrobial resistance and planetary health. *Environment International*, **2019**, 131, 105059	12.9	86
566	Carbon mineralization and nutrient availability in calcareous sandy soils amended with woody waste biochar. *Chemosphere*, **2015**, 138, 67-73	8.4	86
565	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). *Chemical Engineering Journal*, **2020**, 385, 123842	14.7	86
564	Use of Maize (Zea mays L.) for phytomanagement of Cd-contaminated soils: a critical review. *Environmental Geochemistry and Health*, **2017**, 39, 259-277	4.7	85
563	Remediation of heavy metal contaminated soils by using Solanum nigrum: A review. *Ecotoxicology and Environmental Safety*, **2017**, 143, 236-248	7	85
562	Acid-activated biochar increased sulfamethazine retention in soils. *Environmental Science and Pollution Research*, **2015**, 22, 2175-86	5.1	85
561	Heavy metal immobilization in soil near abandoned mines using eggshell waste and rapeseed residue. *Environmental Science and Pollution Research*, **2013**, 20, 1719-26	5.1	85
560	Evaluating biochar and its modifications for the removal of ammonium, nitrate, and phosphate in water. *Water Research*, **2020**, 186, 116303	12.5	84
559	Evaluation of phosphorus adsorption capacity of sesame straw biochar on aqueous solution: influence of activation methods and pyrolysis temperatures. *Environmental Geochemistry and Health*, **2015**, 37, 969-83	4.7	83
558	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 1498-1528	11.1	82
557	Soil pollution assessment and identification of hyperaccumulating plants in chromated copper arsenate (CCA) contaminated sites, Korea. *Chemosphere*, **2012**, 87, 872-8	8.4	82
556	Electricity generation from rice straw using a microbial fuel cell. *International Journal of Hydrogen Energy*, **2014**, 39, 9490-9496	6.7	81
555	Biochar-based adsorbents for carbon dioxide capture: A critical review. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109582	16.2	81
554	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. *Chemosphere*, **2017**, 176, 315-323	8.4	80

553	A review on waste-derived adsorbents from sugar industry for pollutant removal in water and wastewater. *Journal of Molecular Liquids*, **2017**, 240, 179-188	6	80
552	Microbial functional diversity and carbon use feedback in soils as affected by heavy metals. *Environment International*, **2019**, 125, 478-488	12.9	80
551	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. *Science of the Total Environment*, **2018**, 640-641, 704-713	10.2	80
550	Valorization of cellulosic food waste into levulinic acid catalyzed by heterogeneous Brønsted acids: Temperature and solvent effects. *Chemical Engineering Journal*, **2017**, 327, 328-335	14.7	80
549	Selective dissolution followed by EDDS washing of an e-waste contaminated soil: Extraction efficiency, fate of residual metals, and impact on soil environment. *Chemosphere*, **2017**, 166, 489-496	8.4	79
548	Modeling adsorption kinetics of trichloroethylene onto biochars derived from soybean stover and peanut shell wastes. *Environmental Science and Pollution Research*, **2013**, 20, 8364-73	5.1	79
547	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. *Bioresource Technology*, **2016**, 219, 338-347	11	79
546	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. *Chemosphere*, **2017**, 180, 553-563	8.4	78
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