Bin Gao

List of Publications by Year in Descending Order

464 papers	31,638 citations	88 h-index	165 g-index
483 ext. papers	39,137 ext. citations	8.3 avg, IF	7.91 L-index

#	Paper	IF	Citations
464	Occurrences and impacts of microplastics in soils and groundwater **2022**, 253-299		
463	Occurrences and impacts of engineered nanoparticles in soils and groundwater **2022**, 165-204		
462	Fate and transport of engineered nanoparticles in soils and groundwater **2022**, 205-251		
461	Fate and transport of microplastics in soils and groundwater **2022**, 301-329		1
460	Occurrences and impacts of pharmaceuticals and personal care products in soils and groundwater **2022**, 5-47		
459	Stabilization of heavy metals in biochar derived from plants in antimony mining area and its environmental implications.. *Environmental Pollution*, **2022**, 300, 118902	9.3	2
458	Synthesis of hickory biochar via one-step acidic ball milling: Characteristics and titan yellow adsorption. *Journal of Cleaner Production*, **2022**, 338, 130575	10.3	1
457	Treatment technologies for selenium contaminated water: A critical review.. *Environmental Pollution*, **2022**, 118858	9.3	2
456	Straw and wood based biochar for CO2 capture: Adsorption performance and governing mechanisms. *Separation and Purification Technology*, **2022**, 287, 120592	8.3	7
455	Transport of perfluorooctanoic acid in unsaturated porous media mediated by SDBS. *Journal of Hydrology*, **2022**, 607, 127479	6	3
454	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. *Journal of Hazardous Materials*, **2022**, 428, 128223	12.8	2
453	Release characteristics of phosphate from ball-milled biochar and its potential effects on plant growth.. *Science of the Total Environment*, **2022**, 821, 153256	10.2	1
452	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. *Journal of Hazardous Materials*, **2022**, 430, 128479	12.8	3
451	Pyrolysis temperature and feedstock affected Cr(VI) removal capacity of sulfidated zerovalent iron: Importance of surface area and electrical conductivity.. *Chemosphere*, **2022**, 296, 133927	8.4	0
450	Preparation of biosorbent for the removal of organic dyes from aqueous solution via one-step alkaline ball milling of hickory wood.. *Bioresource Technology*, **2022**, 348, 126831	11	1
449	Recent advances in the treatment of contaminated soils by ball milling technology: Classification, mechanisms, and applications. *Journal of Cleaner Production*, **2022**, 340, 130821	10.3	2
448	Ball-milled bismuth oxybromide/biochar composites with enhanced removal of reactive red owing to the synergy between adsorption and photodegradation.. *Journal of Environmental Management*, **2022**, 308, 114652	7.9	1

447	Interactive effects of biochar amendment and lead toxicity on soil microbial community.. *Journal of Hazardous Materials*, **2022**, 425, 127921	12.8	0
446	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils.. *Environmental Pollution*, **2022**, 299, 118810	9.3	4
445	Mechanochemical modification of biochar-attapulgite nanocomposites for cadmium removal: Performance and mechanisms. *Biochemical Engineering Journal*, **2022**, 179, 108332	4.2	0
444	Simultaneous reclaiming phosphate and ammonium from aqueous solutions by calcium alginate-biochar composite: Sorption performance and governing mechanisms. *Chemical Engineering Journal*, **2022**, 429, 132166	14.7	9
443	Ball-milled bismuth oxychloride/biochar nanocomposites with rich oxygen vacancies for reactive red-120 adsorption in aqueous solution. *Biochar*, **2022**, 4, 1	10	1
442	Adsorption behavior and performance of ammonium onto sorghum straw biochar from water.. *Scientific Reports*, **2022**, 12, 5358	4.9	1
441	Phosphorus-modified biochar cross-linked Mg-Al layered double-hydroxide stabilizer reduced U and Pb uptake by Indian mustard (Brassica juncea L.) in uranium contaminated soil.. *Ecotoxicology and Environmental Safety*, **2022**, 234, 113363	7	0
440	Quantifying the Effects of Grain Refiners Al-Ti-B and La on the Microstructure and Mechanical Properties of W319 Alloy. *Metals*, **2022**, 12, 627	2.3	1
439	Effective Sb(V) removal from aqueous solution using phosphogypsum-modified biochar.. *Environmental Pollution*, **2022**, 119032	9.3	0
438	Microwave biochars produced with activated carbon catalyst: Characterization and sorption of volatile organic compounds (VOCs).. *Science of the Total Environment*, **2022**, 153996	10.2	2
437	Selective adsorption behavior and mechanism of phosphate in water by different lanthanum modified biochar. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107476	6.8	3
436	Insights into Cr(VI) removal mechanism in water by facile one-step pyrolysis prepared coal gangue-biochar composite.. *Chemosphere*, **2022**, 134334	8.4	0
435	Environmental behaviors and degradation methods of microplastics in different environmental media.. *Chemosphere*, **2022**, 134354	8.4	5
434	Biochar as a potential strategy for remediation of contaminated mining soils: Mechanisms, applications, and future perspectives.. *Journal of Environmental Management*, **2022**, 313, 114973	7.9	2
433	Nano-biochar: A novel solution for sustainable agriculture and environmental remediation.. *Environmental Research*, **2022**, 210, 112891	7.9	2
432	Carbon defects in biochar facilitated nitrogen doping: The significant role of pyridinic nitrogen in peroxymonosulfate activation and ciprofloxacin degradation. *Chemical Engineering Journal*, **2022**, 441, 135864	14.7	3
431	Combined Effects of Fe/Al Oxyhydroxide Coating and pH on Polystyrene Nanoplastic Transport in Saturated Sand Media. *Water, Air, and Soil Pollution*, **2022**, 233, 1	2.6	0
430	Effects of cooling rates on microporosity in DC casting Al-Li alloy. *China Foundry*, **2022**, 19, 177-190	0.8	

429	Microwave-assisted pyrolysis derived biochar for volatile organic compounds treatment: Characteristics and adsorption performance.. *Bioresource Technology*, **2022**, 355, 127274	11	3
428	Synergetic effect of co-pyrolysis of sewage sludge and lignin on biochar production and adsorption of methylene blue. *Fuel*, **2022**, 324, 124587	7.1	0
427	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review.. *Science of the Total Environment*, **2022**, 837, 155563	10.2	0
426	Preparation and evaluation of fine-tuned micropore biochar by lignin impregnation for CO2 and VOCs adsorption. *Separation and Purification Technology*, **2022**, 295, 121295	8.3	0
425	Removal performance, mechanisms, and influencing factors of biochar for air pollutants: a critical review. *Biochar*, **2022**, 4,	10	1
424	Facile Synthesis of Sodium Lignosulfonate/Polyethyleneimine/Sodium Alginate Beads With Ultra-high Adsorption Capacity for Cr(VI) Removal From Water. *Journal of Hazardous Materials*, **2022**, 129270	12.8	0
423	Effects of anionic hydrocarbon surfactant on the transport of perfluorooctanoic acid (PFOA) in natural soils. *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
422	Porous biochar supported Ag3PO4 photocatalyst for "two-in-one" synergistic adsorptive-photocatalytic removal of methylene blue under visible light irradiation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106753	6.8	1
421	Ibuprofen degradation by a synergism of facet-controlled MIL-88B(Fe) and persulfate under simulated visible light.. *Journal of Colloid and Interface Science*, **2021**, 612, 1-12	9.3	11
420	Gas-solid phase flow synthesis of Cu-Co-1,3,5-benzenetricarboxylate for electrocatalytic oxygen evolution. *Chemical Communications*, **2021**, 57, 12297-12300	5.8	1
419	Physical separation of catalytic oxidation and reduction sites onto photocatalyst assisted by surface functional groups for enhanced hydrogen evolution. *Journal of Cleaner Production*, **2021**, 324, 129259	10.3	2
418	Potential management practices of saltwater intrusion impacts on soil health and water quality: a review. *Journal of Water and Climate Change*, **2021**, 12, 1327-1343	2.3	0
417	Real-Time Trajectory Planning for On-road Autonomous Tractor-Trailer Vehicles. *Journal of Shanghai Jiaotong University (Science)*, **2021**, 26, 722-730	0.6	0
416	Collision-Free Path Planning with Kinematic Constraints in Urban Scenarios. *Journal of Shanghai Jiaotong University (Science)*, **2021**, 26, 731-738	0.6	
415	Dispersion and transport of microplastics in three water-saturated coastal soils. *Journal of Hazardous Materials*, **2021**, 424, 127614	12.8	0
414	Adsorption of emerging contaminants from water and wastewater by modified biochar: A review. *Environmental Pollution*, **2021**, 273, 116448	9.3	122
413	Technology of Acid Soil Improvement with Biochar: A Review. *IOP Conference Series: Earth and Environmental Science*, **2021**, 692, 042098	0.3	
412	Formation and mechanisms of nano-metal oxide-biochar composites for pollutants removal: A review. *Science of the Total Environment*, **2021**, 767, 145305	10.2	31

411	Modified nanoscale zero-valent iron in persulfate activation for organic pollution remediation: a review. *Environmental Science and Pollution Research*, **2021**, 28, 34229-34247	5.1	3
410	Nano-soy-protein microcapsule-enabled self-healing biopolyurethane-coated controlled-release fertilizer: preparation, performance, and mechanism. *Materials Today Chemistry*, **2021**, 20, 100413	6.2	3
409	Effect of root exudates on the stability and transport of graphene oxide in saturated porous media. *Journal of Hazardous Materials*, **2021**, 413, 125362	12.8	4
408	Ball milling biochar with ammonia hydroxide or hydrogen peroxide enhances its adsorption of phenyl volatile organic compounds (VOCs). *Journal of Hazardous Materials*, **2021**, 403, 123540	12.8	35
407	Characterization of residues from non-woody pulping process and its function as fertilizer. *Chemosphere*, **2021**, 262, 127906	8.4	2
406	Invasive plants as potential sustainable feedstocks for biochar production and multiple applications: A review. *Resources, Conservation and Recycling*, **2021**, 164, 105204	11.9	28
405	Novel environment-friendly superhydrophobic bio-based polymer derived from liquefied corncob for controlled-released fertilizer. *Progress in Organic Coatings*, **2021**, 151, 106018	4.8	6
404	Facile ball-milling synthesis of CeO2/g-C3N4 Z-scheme heterojunction for synergistic adsorption and photodegradation of methylene blue: Characteristics, kinetics, models, and mechanisms. *Chemical Engineering Journal*, **2021**, 420, 127719	14.7	38
403	Effects of ionic strength and cation type on the transport of per□orooctanoic acid (PFOA) in unsaturated sand porous media. *Journal of Hazardous Materials*, **2021**, 403, 123688	12.8	22
402	Degradation of anthraquinone dye reactive blue 19 using persulfate activated with Fe/Mn modified biochar: Radical/non-radical mechanisms and fixed-bed reactor study. *Science of the Total Environment*, **2021**, 758, 143584	10.2	24
401	Environmental-friendly coal gangue-biochar composites reclaiming phosphate from water as a slow-release fertilizer. *Science of the Total Environment*, **2021**, 758, 143664	10.2	28
400	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. *Chemical Engineering Journal*, **2021**, 413, 127468	14.7	8
399	Slow-released bio-organic□hemical fertilizer improved tomato growth: synthesis and pot evaluations. *Journal of Soils and Sediments*, **2021**, 21, 319-327	3.4	3
398	Immobilization of heavy metals (Cd, Zn, and Pb) in different contaminated soils with swine manure biochar. *Environmental Pollutants and Bioavailability*, **2021**, 33, 55-65	2.8	15
397	Biochar improves soil physical characteristics and strengthens root architecture in Muscadine grape (Vitis rotundifolia L.). *Chemical and Biological Technologies in Agriculture*, **2021**, 8,	4.4	10
396	Changes in surface characteristics and adsorption properties of 2,4,6-trichlorophenol following Fenton-like aging of biochar. *Scientific Reports*, **2021**, 11, 4293	4.9	5
395	Greenhouse Evaluation of Pinewood Biochar Effects on Nutrient Status and Physiological Performance in Muscadine Grape (Vitis rotundifolia L.). *Hortscience: A Publication of the American Society for Hortcultural Science*, **2021**, 56, 277-285	2.4	1
394	Ball milling biochar iron oxide composites for the removal of chromium (Cr(VI)) from water: Performance and mechanisms. *Journal of Hazardous Materials*, **2021**, 413, 125252	12.8	44

393	Quantifying the effects of Sn on θ′-Al2Cu precipitation kinetics in Al–Cu alloys. *Materials Science and Technology*, **2021**, 37, 979-992	1.5	1
392	P-enriched hydrochar for soil remediation: Synthesis, characterization, and lead stabilization. *Science of the Total Environment*, **2021**, 783, 146983	10.2	3
391	Adsorption and interaction mechanism of uranium (VI) from aqueous solutions on phosphate-impregnation biochar cross-linked Mg Al layered double-hydroxide composite. *Applied Clay Science*, **2021**, 209, 106146	5.2	15
390	Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic acid-co-acrylamide)/zirconium tungstate nanocomposite hydrogel. *Journal of Hazardous Materials*, **2021**, 416, 125714	12.8	43
389	ZnO/biochar nanocomposites via solvent free ball milling for enhanced adsorption and photocatalytic degradation of methylene blue. *Journal of Hazardous Materials*, **2021**, 415, 125511	12.8	32
388	Migration and transformation of chromium in unsaturated soil during groundwater table fluctuations induced by rainfall. *Journal of Hazardous Materials*, **2021**, 416, 126229	12.8	4
387	Transport characteristics of fragmental polyethylene glycol terephthalate (PET) microplastics in porous media under various chemical conditions. *Chemosphere*, **2021**, 276, 130214	8.4	13
386	Electrochemical adsorption of perfluorooctanoic acid on a novel reduced graphene oxide aerogel loaded with Cu nanoparticles and fluorine. *Journal of Hazardous Materials*, **2021**, 416, 125866	12.8	8
385	Double Coating as a Novel Technology for Controlling Urea Dissolution in Soil: A Step toward Improving the Sustainability of Nitrogen Fertilization Approaches. *Sustainability*, **2021**, 13, 10707	3.6	
384	Production of activated biochar via a self-blowing strategy-supported sulfidated nanoscale zerovalent iron with enhanced reactivity and stability for Cr(VI) reduction. *Journal of Cleaner Production*, **2021**, 315, 128108	10.3	6
383	Biochar modulates mineral nitrogen dynamics in soil and terrestrial ecosystems: A critical review. *Chemosphere*, **2021**, 278, 130378	8.4	12
382	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. *Journal of Environmental Management*, **2021**, 296, 113128	7.9	13
381	Mechanisms and adsorption capacities of hydrogen peroxide modified ball milled biochar for the removal of methylene blue from aqueous solutions. *Bioresource Technology*, **2021**, 337, 125432	11	21
380	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. *Journal of Environmental Management*, **2021**, 298, 113530	7.9	4
379	Investigations of Cr(VI) removal by millet bran biochar modified with inorganic compounds: Momentous role of additional lactate. *Science of the Total Environment*, **2021**, 793, 148098	10.2	5
378	Co-adsorption performance and mechanism of nitrogen and phosphorus onto eupatorium adenophorum biochar in water. *Bioresource Technology*, **2021**, 340, 125696	11	18
377	Hydrothermal carbonization of distillers grains with clay minerals for enhanced adsorption of phosphate and methylene blue. *Bioresource Technology*, **2021**, 340, 125725	11	6
376	Mesoporous ball-milling iron-loaded biochar for enhanced sorption of reactive red: Performance and mechanisms. *Environmental Pollution*, **2021**, 290, 117992	9.3	4

375	Microplastic pollution in soils and groundwater: Characteristics, analytical methods and impacts. *Chemical Engineering Journal*, **2021**, 425, 131870	14.7	15
374	Fabrication and environmental applications of metal-containing solid waste/biochar composites: A review. *Science of the Total Environment*, **2021**, 799, 149295	10.2	6
373	Nanoparticles and Their Impacts on Seed Germination. *Nanotechnology in the Life Sciences*, **2021**, 21-31	1.1	
372	Activation of Humic Acid in Lignite Using Molybdate-Phosphorus Hierarchical Hollow Nanosphere Catalyst Oxidation: Molecular Characterization and Rice Seed Germination-Promoting Performances. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 13620-13631	5.7	4
371	Boosting catalytic degradation efficiency by incorporation of MIL-53(Fe) with Ti3C2Tx nanosheeets. *Journal of Molecular Liquids*, **2020**, 311, 113201	6	19
370	Self-Assembly of Hydrophobic and Self-Healing Bionanocomposite-Coated Controlled-Release Fertilizers. *ACS Applied Materials & Interfaces*, **2020**, 12, 27598-27606	9.5	22
369	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. *Bioresource Technology*, **2020**, 312, 123613	11	124
368	Adsorption of tetracycline hydrochloride onto ball-milled biochar: Governing factors and mechanisms. *Chemosphere*, **2020**, 255, 127057	8.4	54
367	One-pot synthesis and characterization of engineered hydrochar by hydrothermal carbonization of biomass with ZnCl. *Chemosphere*, **2020**, 254, 126866	8.4	29
366	Efficient removal of Cd(II) from aqueous solution by pinecone biochar: Sorption performance and governing mechanisms. *Environmental Pollution*, **2020**, 265, 115001	9.3	44
365	Removal mechanisms of Cr(VI) and Cr(III) by biochar supported nanosized zero-valent iron: Synergy of adsorption, reduction and transformation. *Environmental Pollution*, **2020**, 265, 115018	9.3	60
364	Exploring the use of Dicranopteris pedata ash as a rare earth fertilizer to Ipomoea aquatica Forsskal. *Journal of Hazardous Materials*, **2020**, 400, 123207	12.8	5
363	A novel stabilized carbon-coated nZVI as heterogeneous persulfate catalyst for enhanced degradation of 4-chlorophenol. *Environment International*, **2020**, 138, 105639	12.9	38
362	Importance of Al/Fe oxyhydroxide coating and ionic strength in perfluorooctanoic acid (PFOA) transport in saturated porous media. *Water Research*, **2020**, 175, 115685	12.5	10
361	Biochar technology in wastewater treatment: A critical review. *Chemosphere*, **2020**, 252, 126539	8.4	209
360	Solvent-free synthesis of magnetic biochar and activated carbon through ball-mill extrusion with FeO nanoparticles for enhancing adsorption of methylene blue. *Science of the Total Environment*, **2020**, 722, 137972	10.2	62
359	Facile Ball-Milling Synthesis of CuO/Biochar Nanocomposites for Efficient Removal of Reactive Red 120. *ACS Omega*, **2020**, 5, 5748-5755	3.9	35
358	Reduction, detoxification and recycling of solid waste by hydrothermal technology: A review. *Chemical Engineering Journal*, **2020**, 390, 124651	14.7	36

357	Accelerated antimony and copper removal by manganese oxide embedded in biochar with enlarged pore structure. *Chemical Engineering Journal*, **2020**, 402, 126021	14.7	27
356	Lead and copper-induced hormetic effect and toxicity mechanisms in lettuce (Lactuca sativa L.) grown in a contaminated soil. *Science of the Total Environment*, **2020**, 741, 140440	10.2	10
355	Novel ball-milled biochar-vermiculite nanocomposites effectively adsorb aqueous As(V). *Chemosphere*, **2020**, 260, 127566	8.4	13
354	Simulated photocatalytic aging of biochar in soil ecosystem: Insight into organic carbon release, surface physicochemical properties and cadmium sorption. *Environmental Research*, **2020**, 183, 109241	7.9	22
353	Nutrient stability and sorption of sewage sludge biochar prepared from co-pyrolysis of sewage sludge and stalks / mineral materials. *Environmental Pollutants and Bioavailability*, **2020**, 32, 12-18	2.8	5
352	Sulfidation enhances stability and mobility of carboxymethyl cellulose stabilized nanoscale zero-valent iron in saturated porous media. *Science of the Total Environment*, **2020**, 718, 137427	10.2	12
351	Adsorption of Polycyclic Aromatic Hydrocarbons from aqueous solution by Organic Montmorillonite Sodium Alginate Nanocomposites. *Chemosphere*, **2020**, 251, 126074	8.4	28
350	Combined application of biochar and sulfur regulated growth, physiological, antioxidant responses and Cr removal capacity of maize (Zea mays L.) in tannery polluted soils. *Journal of Environmental Management*, **2020**, 259, 110051	7.9	45
349	Role of controlled and slow release fertilizers in fruit crop nutrition **2020**, 555-566		5
348	Ultrafast sequestration of cadmium and lead from water by manganese oxide supported on a macro-mesoporous biochar. *Chemical Engineering Journal*, **2020**, 387, 124095	14.7	19
347	Applications of carbonaceous adsorbents in the remediation of polycyclic aromatic hydrocarbon-contaminated sediments: A review. *Journal of Cleaner Production*, **2020**, 255, 120263	10.3	34
346	Insights into the effects of long-term biochar loading on water-soluble organic matter in soil: Implications for the vertical co-migration of heavy metals. *Environment International*, **2020**, 136, 105439	12.9	21
345	Production of hierarchically porous carbon from natural biomass waste for efficient organic contaminants adsorption. *Journal of Cleaner Production*, **2020**, 263, 121352	10.3	30
344	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. *Green Chemistry*, **2020**, 22, 2688-2711	10	64
343	Urea formaldehyde modified alginate beads with improved stability and enhanced removal of Pb, Cd, and Cu. *Journal of Hazardous Materials*, **2020**, 396, 122664	12.8	25
342	A Novel System for Guiding Unmanned Vehicles Based on Human Gesture Recognition **2020**,		3
341	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. *Journal of Cleaner Production*, **2020**, 268, 122300	10.3	11
340	Physical and Combustion Properties of Binder-Assisted Hydrochar Pellets from Hydrothermal Carbonization of Tobacco Stem. *Waste and Biomass Valorization*, **2020**, 11, 6369-6382	3.2	9

339	New insights into CO2 sorption on biochar/Fe oxyhydroxide composites: Kinetics, mechanisms, and in situ characterization. *Chemical Engineering Journal*, **2020**, 384, 123289	14.7	14
338	MgO modified biochar produced through ball milling: A dual-functional adsorbent for removal of different contaminants. *Chemosphere*, **2020**, 243, 125344	8.4	42
337	Fire Phoenix facilitates phytoremediation of PAH-Cd co-contaminated soil through promotion of beneficial rhizosphere bacterial communities. *Environment International*, **2020**, 136, 105421	12.9	55
336	Polyethyleneimine-modified biochar for enhanced phosphate adsorption. *Environmental Science and Pollution Research*, **2020**, 27, 7420-7429	5.1	16
335	Transport of polystyrene nanoplastics in natural soils: Effect of soil properties, ionic strength and cation type. *Science of the Total Environment*, **2020**, 707, 136065	10.2	60
334	Ball milled biochar effectively removes sulfamethoxazole and sulfapyridine antibiotics from water and wastewater. *Environmental Pollution*, **2020**, 258, 113809	9.3	68
333	Removal of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) from water by carbonaceous nanomaterials: A review. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 2379-2414	11.1	30
332	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
331	Remediation of saline-sodic soil using organic and inorganic amendments: physical, chemical, and enzyme activity properties. *Journal of Soils and Sediments*, **2020**, 20, 1454-1467	3.4	3
330	Retention of nano PbO in saturated columns and its dissolution kinetics in soils. *Environmental Science and Pollution Research*, **2020**, 27, 1167-1174	5.1	1
329	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. *Science of the Total Environment*, **2020**, 704, 135414	10.2	7
328	Enhanced removal of ammonium from water by ball-milled biochar. *Environmental Geochemistry and Health*, **2020**, 42, 1579-1587	4.7	22
327	Biochar/iron (BC/Fe) composites for soil and groundwater remediation: Synthesis, applications, and mechanisms. *Chemosphere*, **2020**, 246, 125609	8.4	57
326	Adsorption of acetone and cyclohexane onto CO activated hydrochars. *Chemosphere*, **2020**, 245, 125664	8.4	27
325	Sorption behavior of dimethyl phthalate in biochar-soil composites: Implications for the transport of phthalate esters in long-term biochar amended soils. *Ecotoxicology and Environmental Safety*, **2020**, 205, 111169	7	3
324	Indole Carbonized Polymer Dots Boost Full-Color Emission by Regulating Surface State. *IScience*, **2020**, 23, 101546	6.1	10
323	Removal of aqueous Cr(VI) by Zn- and Al-modified hydrochar. *Chemosphere*, **2020**, 260, 127610	8.4	22
322	Importance of surface roughness on perfluorooctanoic acid (PFOA) transport in unsaturated porous media. *Environmental Pollution*, **2020**, 266, 115343	9.3	10

321	Comparative investigation of characteristics and phosphate removal by engineered biochars with different loadings of magnesium, aluminum, or iron. *Science of the Total Environment*, **2020**, 747, 141277	10.2	22
320	Effects of long-term zinc smelting activities on the distribution and health risk of heavy metals in agricultural soils of Guizhou province, China. *Environmental Geochemistry and Health*, **2020**, 1	4.7	7
319	Fuel properties and combustion kinetics of hydrochar derived from co-hydrothermal carbonization of tobacco residues and graphene oxide. *Biomass Conversion and Biorefinery*, **2020**, 10, 189-201	2.3	17
318	Thiol-modified biochar synthesized by a facile ball-milling method for enhanced sorption of inorganic Hg and organic CHHg. *Journal of Hazardous Materials*, **2020**, 384, 121357	12.8	48
317	Fulvic acid-like substance and its characteristics, an innovative waste recycling material from pulp black liquor. *Journal of Cleaner Production*, **2020**, 243, 118585	10.3	12
316	Foamed urea-formaldehyde microspheres for removal of heavy metals from aqueous solutions. *Chemosphere*, **2020**, 241, 125004	8.4	13
315	Characteristics of organo-mineral complexes in contaminated soils with long-term biochar application. *Journal of Hazardous Materials*, **2020**, 384, 121265	12.8	28
314	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 476-522	11.1	27
313	Recycling supercapacitor activated carbons for adsorption of silver (I) and chromium (VI) ions from aqueous solutions. *Chemosphere*, **2020**, 238, 124638	8.4	24
312	Effects of laboratory biotic aging on the characteristics of biochar and its water-soluble organic products. *Journal of Hazardous Materials*, **2020**, 382, 121071	12.8	45
311	Phosphogypsum as a novel modifier for distillers grains biochar removal of phosphate from water. *Chemosphere*, **2020**, 238, 124684	8.4	56
310	Biochar addition can reduce NOx gas emissions from a calcareous soil. *Environmental Pollutants and Bioavailability*, **2019**, 31, 38-48	2.8	11
309	Environmental occurrences, fate, and impacts of microplastics. *Ecotoxicology and Environmental Safety*, **2019**, 184, 109612	7	135
308	Enhanced removal of hexavalent chromium by engineered biochar composite fabricated from phosphogypsum and distillers grains. *Science of the Total Environment*, **2019**, 697, 134119	10.2	41
307	Importance of Organic Matter to the Retention and Transport of Bisphenol A and Bisphenol S in Saturated Soils. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	4
306	Biomass facilitated phase transformation of natural hematite at high temperatures and sorption of Cd and Cu. *Environment International*, **2019**, 124, 473-481	12.9	27
305	Interfacial coupling effects in g-C3N4/SrTiO3 nanocomposites with enhanced H2 evolution under visible light irradiation. *Applied Catalysis B: Environmental*, **2019**, 247, 1-9	21.8	84
304	Synergistic adsorption-photocatalysis processes of graphitic carbon nitrate (g-C3N4) for contaminant removal: Kinetics, models, and mechanisms. *Chemical Engineering Journal*, **2019**, 375, 122019	14.7	40

303	Chitosan and Graphene Oxide Nanocomposites as Coatings for Controlled-Release Fertilizer. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	26
302	Activation of fulvic acid-like in paper mill effluents using HO/TiO catalytic oxidation: Characterization and salt stress bioassays. *Journal of Hazardous Materials*, **2019**, 378, 120702	12.8	9
301	Multifunctional Slow-Release Fertilizer Prepared from Lignite Activated by a 3D-Molybdate-Sulfur Hierarchical Hollow Nanosphere Catalyst. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10533-10543	8.3	16
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