

Chaohai Wei

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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.

97
papers

2,594
citations

28
h-index

47
g-index

100
ext. papers

3,429
ext. citations

7.9
avg, IF

5.71
L-index

#	Paper	IF	Citations
97	Chlorinated volatile organic compounds (Cl-VOCs) in environment - sources, potential human health impacts, and current remediation technologies. <i>Environment International</i> , 2014 , 71, 118-38	12.9	389
96	Distribution and migration of heavy metals in soil and crops affected by acid mine drainage: Public health implications in Guangdong Province, China. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 124, 460-469	7	106
95	Fabrication of terminal amino hyperbranched polymer modified graphene oxide and its prominent adsorption performance towards Cr(VI). <i>Journal of Hazardous Materials</i> , 2019 , 363, 161-169	12.8	101
94	Simultaneous phenol removal, nitrification and denitrification using microbial fuel cell technology. <i>Water Research</i> , 2015 , 76, 160-70	12.5	99
93	Efficient removal of lead from highly acidic wastewater by periodic ion imprinted mesoporous SBA-15 organosilica combining metal coordination and co-condensation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9789-9798	13	77
92	Dual-template synthesis of mesoporous TiO ₂ nanotubes with structure-enhanced functional photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 301-312	21.8	75
91	A biosurfactant-producing <i>Pseudomonas aeruginosa</i> S5 isolated from coking wastewater and its application for bioremediation of polycyclic aromatic hydrocarbons. <i>Bioresource Technology</i> , 2019 , 281, 421-428	11	74
90	Highly active and durable carbon electrocatalyst for nitrate reduction reaction. <i>Water Research</i> , 2019 , 161, 126-135	12.5	65
89	Ozonation in water treatment: the generation, basic properties of ozone and its practical application. <i>Reviews in Chemical Engineering</i> , 2017 , 33,	5	64
88	Removal of cyanide compounds from coking wastewater by ferrous sulfate: Improvement of biodegradability. <i>Journal of Hazardous Materials</i> , 2016 , 302, 468-474	12.8	55
87	Enhanced Photocatalytic Degradation of Environmental Pollutants under Visible Irradiation by a Composite Coating. <i>Environmental Science & Technology</i> , 2017 , 51, 5137-5145	10.3	52
86	Enhanced anaerobic dechlorination of polychlorinated biphenyl in sediments by bioanode stimulation. <i>Environmental Pollution</i> , 2016 , 211, 81-9	9.3	51
85	Highly ordered metal ion imprinted mesoporous silica particles exhibiting specific recognition and fast adsorption kinetics. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7147	13	49
84	Fe/HClO Reaction Produces FeO: An Enhanced Advanced Oxidation Process. <i>Environmental Science & Technology</i> , 2020 , 54, 6406-6414	10.3	48
83	Emission patterns and risk assessment of polybrominated diphenyl ethers and bromophenols in water and sediments from the Beijiang River, South China. <i>Environmental Pollution</i> , 2016 , 219, 596-603	9.3	44
82	Methyl parathion imprinted polymer nanoshell coated on the magnetic nanocore for selective recognition and fast adsorption and separation in soils. <i>Journal of Hazardous Materials</i> , 2014 , 264, 34-41	12.8	44
81	Emission characteristics and associated health risk assessment of volatile organic compounds from a typical coking wastewater treatment plant. <i>Science of the Total Environment</i> , 2019 , 693, 133417	10.2	42

80	Ozonation of aqueous phenol catalyzed by biochar produced from sludge obtained in the treatment of coking wastewater. <i>Journal of Environmental Management</i> , 2018 , 224, 376-386	7.9	41
79	Fate of Fe and Cd upon microbial reduction of Cd-loaded polyferric flocs by <i>Shewanella oneidensis</i> MR-1. <i>Chemosphere</i> , 2016 , 144, 2065-72	8.4	41
78	Solubilization of polycyclic aromatic hydrocarbons (PAHs) with phenol in coking wastewater treatment system: Interaction and engineering significance. <i>Science of the Total Environment</i> , 2018 , 628-629, 467-473	10.2	39
77	Effects of electron-donating groups on the photocatalytic reaction of MOFs. <i>Catalysis Science and Technology</i> , 2018 , 8, 1696-1703	5.5	38
76	One-Step Treatment of Phosphite-Laden Wastewater: A Single Electrochemical Reactor Integrating Superoxide Radical-Induced Oxidation and Electrocoagulation. <i>Environmental Science & Technology</i> , 2019 , 53, 5328-5336	10.3	34
75	Single microbial fuel cell reactor for coking wastewater treatment: Simultaneous carbon and nitrogen removal with zero alkaline consumption. <i>Science of the Total Environment</i> , 2018 , 621, 497-506	10.2	34
74	Nitrified coke wastewater sludge flocs: an attractive precursor for N,S dual-doped graphene-like carbon with ultrahigh capacitance and oxygen reduction performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2012-2020	13	33
73	Residual chemical oxygen demand (COD) fractionation in bio-treated coking wastewater integrating solution property characterization. <i>Journal of Environmental Management</i> , 2019 , 246, 324-333	7.9	30
72	Adsorption of Cd by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids. <i>RSC Advances</i> , 2018 , 8, 8950-8960	3.7	30
71	One-step fabrication of membraneless microbial fuel cell cathode by electropolymerization of polypyrrole onto stainless steel mesh. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3953-7	11.8	30
70	Strategies to improve the adsorption properties of graphene-based adsorbent towards heavy metal ions and their compound pollutants: A review. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125690	12.8	29
69	Structure and function of microbial community involved in a novel full-scale prefix oxidic coking wastewater treatment O/H/O system. <i>Water Research</i> , 2019 , 164, 114963	12.5	27
68	Gut digestion of earthworms significantly attenuates cell-free and -associated antibiotic resistance genes in excess activated sludge by affecting bacterial profiles. <i>Science of the Total Environment</i> , 2019 , 691, 644-653	10.2	26
67	Multi-phase distribution and comprehensive ecological risk assessment of heavy metal pollutants in a river affected by acid mine drainage. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 141, 75-84	7	25
66	Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis. <i>Chemosphere</i> , 2020 , 253, 126767	8.4	25
65	Graphene oxide-terminated hyperbranched amino polymer-carboxymethyl cellulose ternary nanocomposite for efficient removal of heavy metals from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 581-592	7.9	24
64	Monodisperse microporous carbon nanospheres: An efficient and stable solid phase microextraction coating material. <i>Analytica Chimica Acta</i> , 2015 , 884, 44-51	6.6	24
63	Anode-biofilm electron transfer behavior and wastewater treatment under different operational modes of bioelectrochemical system. <i>Bioresource Technology</i> , 2014 , 157, 305-9	11	23

62	Microbial polychlorinated biphenyl dechlorination in sediments by electrical stimulation: The effect of adding acetate and nonionic surfactant. <i>Science of the Total Environment</i> , 2017 , 580, 1371-1380	10.2	22
61	The correlations among wastewater internal energy, energy consumption and energy recovery/production potentials in wastewater treatment plant: An assessment of the energy balance. <i>Science of the Total Environment</i> , 2020 , 714, 136655	10.2	22
60	Simultaneous nitrite and ammonium production in an autotrophic partial denitrification and ammonification of wastewaters containing thiocyanate. <i>Bioresource Technology</i> , 2018 , 252, 20-27	11	22
59	Facile preparation of nitrogen and sulfur co-doped graphene-based aerogel for simultaneous removal of Cd and organic dyes. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 21164-21175	5.1	22
58	Preparation of mesoporous SiO ₂ /Bi ₂ O ₃ /TiO ₂ superhydrophilic thin films and their surface self-cleaning properties. <i>RSC Advances</i> , 2017 , 7, 1966-1974	3.7	21
57	Selection of optimum biological treatment for coking wastewater using analytic hierarchy process. <i>Science of the Total Environment</i> , 2020 , 742, 140400	10.2	21
56	Discovering the Importance of ClO in a Coupled Electrochemical System for the Simultaneous Removal of Carbon and Nitrogen from Secondary Coking Wastewater Effluent. <i>Environmental Science & Technology</i> , 2020 , 54, 9015-9024	10.3	20
55	Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater. <i>Chemosphere</i> , 2019 , 228, 128-138	8.4	19
54	The effect of peroxymonosulfate in WS nanosheets for the removal of diclofenac: Information exposure and degradation pathway. <i>Chemosphere</i> , 2020 , 245, 125678	8.4	19
53	Material inter-recycling for advanced nitrogen and residual COD removal from bio-treated coking wastewater through autotrophic denitrification. <i>Bioresource Technology</i> , 2019 , 289, 121616	11	18
52	Functional identification behind gravity-separated sludge in high concentration organic coking wastewater: Microbial aggregation, apoptosis-like decay and community. <i>Water Research</i> , 2019 , 150, 120-128	12.5	18
51	Application of magnetic Cd ²⁺ ion-imprinted mesoporous organosilica nanocomposites for mineral wastewater treatment. <i>RSC Advances</i> , 2017 , 7, 7996-8003	3.7	16
50	Investigation of the fate of heavy metals based on process regulation-chemical reaction-phase distribution in an A-O-H-O biological coking wastewater treatment system. <i>Journal of Environmental Management</i> , 2019 , 247, 234-241	7.9	15
49	In situ synthesis and photocatalytic mechanism of a cyano bridged Cu(I) polymer. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1282-1287	6.8	14
48	One-step synthesis of periodic ion imprinted mesoporous silica particles for highly specific removal of Cd ²⁺ from mine wastewater. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 632-640	2.3	14
47	In-situ Growth of a Bimetallic Cobalt-Nickel Organic Framework on Iron Foam: Achieving the Electron Modification on a Robust Self-supported Oxygen Evolution Electrode. <i>ChemCatChem</i> , 2019 , 11, 6061-6069	5.2	14
46	Estrogenic activity and identification of potential xenoestrogens in a coking wastewater treatment plant. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 112, 238-46	7	14
45	Enhancement of visible-light photocatalytic activities of BiVO coupled with g-CN prepared using different precursors. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 32466-32477	5.1	14

44	Identification of disinfection by-product precursors from the discharge of a coking wastewater treatment plant. <i>RSC Advances</i> , 2015 , 5, 43786-43797	3.7	13
43	Simple preparation of Mn ^{II} -codoped titania photocatalyst with visible light response. <i>Research on Chemical Intermediates</i> , 2010 , 36, 95-101	2.8	13
42	Application of metabolic division of labor in simultaneous removal of nitrogen and thiocyanate from wastewater. <i>Water Research</i> , 2019 , 150, 216-224	12.5	13
41	Simultaneous decarburization, nitrification and denitrification (SDCND) in coking wastewater treatment using an integrated fluidized-bed reactor. <i>Journal of Environmental Management</i> , 2019 , 252, 109661	7.9	12
40	Enhancement of PAHs biodegradation in biosurfactant/phenol system by increasing the bioavailability of PAHs. <i>Chemosphere</i> , 2021 , 266, 128941	8.4	12
39	The mineralization of oxalic acid and bio-treated coking wastewater by catalytic ozonation using nickel oxide. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 2389-2400	5.1	12
38	In-Situ Synthesis and High-Efficiency Photocatalytic Performance of Cu(I)/Cu(II) Inorganic Coordination Polymer Quantum Sheets. <i>Inorganic Chemistry</i> , 2018 , 57, 13289-13295	5.1	12
37	A comprehensive evaluation method for sludge pyrolysis and adsorption process in the treatment of coking wastewater. <i>Journal of Environmental Management</i> , 2019 , 235, 423-431	7.9	11
36	Time-dependent bacterial community and electrochemical characterizations of cathodic biofilms in the surfactant-amended sediment-based bioelectrochemical reactor with enhanced 2,3,4,5-tetrachlorobiphenyl dechlorination. <i>Environmental Pollution</i> , 2018 , 236, 343-354	9.3	11
35	Detailed characteristics of adsorption of bisphenol A by highly hydrophobic MCM-41 mesoporous molecular sieves. <i>Research on Chemical Intermediates</i> , 2016 , 42, 7169-7183	2.8	11
34	Preparation of an ion imprinted functionalized mesoporous silica for rapid and specific absorption Cr(III) ions in effluents. <i>RSC Advances</i> , 2017 , 7, 37778-37786	3.7	10
33	Spectroscopic characterization of dissolved organic matter in coking wastewater during bio-treatment: full-scale plant study. <i>Water Science and Technology</i> , 2015 , 72, 1411-20	2.2	10
32	Isolation and Identification of <i>Achromobacter</i> sp. DN-06 and Evaluation of Its Pyridine Degradation Kinetics. <i>Water, Air, and Soil Pollution</i> , 2011 , 221, 365-375	2.6	10
31	Preparation of 3,3,3-trifluoropropyl functionalized hydrophobic mesoporous silica and its outstanding adsorption properties for dibutyl phthalate. <i>RSC Advances</i> , 2017 , 7, 8338-8346	3.7	9
30	Spatial distributions, source apportionment and ecological risk of SVOCs in water and sediment from Xijiang River, Pearl River Delta. <i>Environmental Geochemistry and Health</i> , 2018 , 40, 1853-1865	4.7	9
29	Energy Balance Evaluation in Coking Wastewater Treatment: Optimization and Modeling of Integrated Biological and Adsorption Treatment System. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16448-16458	8.3	9
28	Anaerobic Dechlorination of Tetrachlorobisphenol A in River Sediment and Associated Changes in Bacterial Communities. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	8
27	Simultaneous removal of thiocyanate and nitrogen from wastewater by autotrophic denitrification process. <i>Bioresource Technology</i> , 2018 , 267, 30-37	11	8

26	Addition of iron oxides in sediments enhances 2,3,4,5-tetrachlorobiphenyl (PCB 61) dechlorination by low-voltage electric fields. <i>RSC Advances</i> , 2017 , 7, 26019-26027	3.7	7
25	Influence of soil evolution on the heavy metal risk in three kinds of intertidal zone of the Pearl River Estuary. <i>Land Degradation and Development</i> , 2021 , 32, 583-596	4.4	7
24	Quantification of the relationship between multiple metal(loid) distribution and integrated effect of internal-external factors in riverbed sediments across Xijiang River basin, South China. <i>Science of the Total Environment</i> , 2018 , 643, 527-538	10.2	7
23	Distribution Characteristics of Volatile Organic Compounds and Contribution to Ozone Formation in a Coking Wastewater Treatment Plant. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
22	Multiphase distribution and migration characteristics of heavy metals in typical sandy intertidal zones: insights from solid-liquid partitioning. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111674	7	6
21	Photocatalytic oxidation of nitrogen oxides over {001}TiO ₂ : the influence of F ions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 35342-35351	5.1	6
20	An Oxidative Hydrolytic Process at the Nexus of Sludge Spatial Segmentation, Microbial Functionality, and Pollutants Removal in the Treatment of Coking Wastewater. <i>ACS ES&T Water</i> , 2021 , 1, 1252-1262		5
19	Self-Activated Ni Cathode for Electrocatalytic Nitrate Reduction to Ammonia: From Fundamentals to Scale-Up for Treatment of Industrial Wastewater. <i>Environmental Science & Technology</i> , 2021 , 55, 13231-13243	10.3	5
18	Synergy between autotrophic denitrification and Anammox driven by FeS in a fluidized bed bioreactor for advanced nitrogen removal. <i>Chemosphere</i> , 2021 , 280, 130726	8.4	5
17	Diversity and functional prediction of microbial communities involved in the first aerobic bioreactor of coking wastewater treatment system. <i>PLoS ONE</i> , 2020 , 15, e0243748	3.7	4
16	The response of polycyclic aromatic hydrocarbon degradation in coking wastewater treatment after bioaugmentation with biosurfactant-producing bacteria <i>Pseudomonas aeruginosa</i> S5. <i>Water Science and Technology</i> , 2021 , 83, 1017-1027	2.2	4
15	Study on preparation and properties of PVA-SA-PHB-AC composite carrier for microorganism immobilization. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	3
14	Glycine adversely affects enhanced biological phosphorus removal. <i>Water Research</i> , 2021 , 209, 117894	12.5	2
13	In-situ growth of Co/Ni bimetallic organic frameworks on carbon spheres with catalytic ozonation performance for removal of bio-treated coking wastewater. <i>Chemosphere</i> , 2021 , 291, 132874	8.4	2
12	Evolution of biochemical processes in coking wastewater treatment: A combined evaluation of material and energy efficiencies and secondary pollution. <i>Science of the Total Environment</i> , 2021 , 807, 151072	10.2	2
11	Mechanism of Ozone Oxidation of Polycyclic Aromatic Hydrocarbons During the Reduction of Coking Wastewater Sludge. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 1499-1507	1.6	2
10	Effects of alkali, autoclaving, and Fe ⁺ autoclaving pretreatment on anaerobic digestion performance of coking sludge from the perspective of sludge extracts and methane production. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 13151-13161	5.1	2
9	Minimizing toxic chlorinated byproducts during electrochemical oxidation of Ni-EDTA: Importance of active chlorine-triggered Fe(II) transition to Fe(IV).. <i>Water Research</i> , 2022 , 219, 118548	12.5	2

8	Coking wastewater treatment plant as a sources of polycyclic aromatic hydrocarbons (PAHs) in sediments and ecological risk assessment. <i>Scientific Reports</i> , 2020 , 10, 7833	4.9	1
7	A feasibility study of metal sulfide (FeS and MnS) on simultaneous denitrification and chromate reduction. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127491	12.8	1
6	Treatment of high-concentration phenolic wastewater by pyridinecoal tar complexation extraction system. <i>Desalination and Water Treatment</i> , 2016 , 57, 24417-24429		1
5	Carbon uptake bioenergetics of PAOs and GAOs in full-scale enhanced biological phosphorus removal systems.. <i>Water Research</i> , 2022 , 216, 118258	12.5	1
4	Enhanced energy efficiency for the complete mineralization of diclofenac by self-sequential ultrasound enhanced ozonation.. <i>RSC Advances</i> , 2020 , 10, 15493-15500	3.7	0
3	Functional graphene oxide for organic pollutants removal from wastewater: a mini review.. <i>Environmental Technology (United Kingdom)</i> , 2022 , 1-13	2.6	0
2	The Use of Accumulated Charge Density of a Bioanode to Estimate Maximum Current in a Bioelectrochemical System. <i>ChemElectroChem</i> , 2015 , 2, 1355-1360	4.3	
1	Modeling and optimization of the coagulation of highly concentrated coking wastewater by ferrous sulfate using a response surface methodology. <i>Desalination and Water Treatment</i> , 2014 , 1-12		