Chaohai Wei

List of Publications by Year
in descending order

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98 papers	4,266 citations	109137 35 h-index	123241 61 g-index
100 all docs	100 docs citations	100 times ranked	4792 citing authors

#	Article	IF	Citations
1	Chlorinated volatile organic compounds (Cl-VOCs) in environment â€" sources, potential human health impacts, and current remediation technologies. Environment International, 2014, 71, 118-138.	4.8	586
2	Distribution and migration of heavy metals in soil and crops affected by acid mine drainage: Public health implications in Guangdong Province, China. Ecotoxicology and Environmental Safety, 2016, 124, 460-469.	2.9	143
3	Fabrication of terminal amino hyperbranched polymer modified graphene oxide and its prominent adsorption performance towards Cr(VI). Journal of Hazardous Materials, 2019, 363, 161-169.	6.5	142
4	Highly active and durable carbon electrocatalyst for nitrate reduction reaction. Water Research, 2019, 161, 126-135.	5.3	140
5	Simultaneous phenol removal, nitrification and denitrification using microbial fuel cell technology. Water Research, 2015, 76, 160-170.	5.3	131
6	Strategies to improve the adsorption properties of graphene-based adsorbent towards heavy metal ions and their compound pollutants: A review. Journal of Hazardous Materials, 2021, 415, 125690.	6.5	129
7	Ozonation in water treatment: the generation, basic properties of ozone and its practical application. Reviews in Chemical Engineering, 2017, 33, 49-89.	2.3	124
8	Fe²⁺/HClO Reaction Produces Fe^{IV}O²⁺: An Enhanced Advanced Oxidation Process. Environmental Science & Technology, 2020, 54, 6406-6414.	4.6	121
9	A biosurfactant-producing Pseudomonas aeruginosa S5 isolated from coking wastewater and its application for bioremediation of polycyclic aromatic hydrocarbons. Bioresource Technology, 2019, 281, 421-428.	4.8	113
10	Dual-template synthesis of mesoporous TiO2 nanotubes with structure-enhanced functional photocatalytic performance. Applied Catalysis B: Environmental, 2019, 250, 301-312.	10.8	112
11	Efficient removal of lead from highly acidic wastewater by periodic ion imprinted mesoporous SBA-15 organosilica combining metal coordination and co-condensation. Journal of Materials Chemistry A, 2015, 3, 9789-9798.	5.2	91
12	Discovering the Importance of ClO^{â€¢} in a Coupled Electrochemical System for the Simultaneous Removal of Carbon and Nitrogen from Secondary Coking Wastewater Effluent. Environmental Science & Technology, 2020, 54, 9015-9024.	4.6	76
13	Ozonation of aqueous phenol catalyzed by biochar produced from sludge obtained in the treatment of coking wastewater. Journal of Environmental Management, 2018, 224, 376-386.	3.8	71
14	Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis. Chemosphere, 2020, 253, 126767.	4.2	71
15	Removal of cyanide compounds from coking wastewater by ferrous sulfate: Improvement of biodegradability. Journal of Hazardous Materials, 2016, 302, 468-474.	6.5	69
16	Enhanced Photocatalytic Degradation of Environmental Pollutants under Visible Irradiation by a Composite Coating. Environmental Science & Technology, 2017, 51, 5137-5145.	4.6	63
17	Emission characteristics and associated health risk assessment of volatile organic compounds from a typical coking wastewater treatment plant. Science of the Total Environment, 2019, 693, 133417.	3.9	62
18	Enhanced anaerobic dechlorination of polychlorinated biphenyl in sediments by bioanode stimulation. Environmental Pollution, 2016, 211, 81-89.	3.7	61

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19	Fate of Fe and Cd upon microbial reduction of Cd-loaded polyferric flocs by Shewanella oneidensis MR-1. Chemosphere, 2016, 144, 2065-2072.	4.2	60
20	Effects of electron-donating groups on the photocatalytic reaction of MOFs. Catalysis Science and Technology, 2018, 8, 1696-1703.	2.1	58
21	One-Step Treatment of Phosphite-Laden Wastewater: A Single Electrochemical Reactor Integrating Superoxide Radical-Induced Oxidation and Electrocoagulation. Environmental Science & Technology, 2019, 53, 5328-5336.	4.6	58
22	Emission patterns and risk assessment of polybrominated diphenyl ethers and bromophenols in water and sediments from the Beijiang River, South China. Environmental Pollution, 2016, 219, 596-603.	3.7	57
23	Residual chemical oxygen demand (COD) fractionation in bio-treated coking wastewater integrating solution property characterization. Journal of Environmental Management, 2019, 246, 324-333.	3.8	57
24	Highly ordered metal ion imprinted mesoporous silica particles exhibiting specific recognition and fast adsorption kinetics. Journal of Materials Chemistry A, 2013, 1, 7147.	5.2	55
25	Structure and function of microbial community involved in a novel full-scale prefix oxic coking wastewater treatment O/H/O system. Water Research, 2019, 164, 114963.	5.3	55
26	Methyl parathion imprinted polymer nanoshell coated on the magnetic nanocore for selective recognition and fast adsorption and separation in soils. Journal of Hazardous Materials, 2014, 264, 34-41.	6.5	53
27	Gut digestion of earthworms significantly attenuates cell-free and -associated antibiotic resistance genes in excess activated sludge by affecting bacterial profiles. Science of the Total Environment, 2019, 691, 644-653.	3.9	53
28	Single microbial fuel cell reactor for coking wastewater treatment: Simultaneous carbon and nitrogen removal with zero alkaline consumption. Science of the Total Environment, 2018, 621, 497-506.	3.9	50
29	Solubilization of polycyclic aromatic hydrocarbons (PAHs) with phenol in coking wastewater treatment system: Interaction and engineering significance. Science of the Total Environment, 2018, 628-629, 467-473.	3.9	48
30	The correlations among wastewater internal energy, energy consumption and energy recovery/production potentials in wastewater treatment plant: An assessment of the energy balance. Science of the Total Environment, 2020, 714, 136655.	3.9	46
31	The effect of peroxymonosulfate in WS2 nanosheets for the removal of diclofenac: Information exposure and degradation pathway. Chemosphere, 2020, 245, 125678.	4.2	44
32	Adsorption of Cd²⁺ by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids. RSC Advances, 2018, 8, 8950-8960.	1.7	42
33	Graphene oxide-terminated hyperbranched amino polymer-carboxymethyl cellulose ternary nanocomposite for efficient removal of heavy metals from aqueous solutions. International Journal of Biological Macromolecules, 2020, 149, 581-592.	3.6	42
34	Selection of optimum biological treatment for coking wastewater using analytic hierarchy process. Science of the Total Environment, 2020, 742, 140400.	3.9	41
35	Microbial polychlorinated biphenyl dechlorination in sediments by electrical stimulation: The effect of adding acetate and nonionic surfactant. Science of the Total Environment, 2017, 580, 1371-1380.	3.9	36
36	Multi-phase distribution and comprehensive ecological risk assessment of heavy metal pollutants in a river affected by acid mine drainage. Ecotoxicology and Environmental Safety, 2017, 141, 75-84.	2.9	36

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37	Nitrified coke wastewater sludge flocs: an attractive precursor for N,S dual-doped graphene-like carbon with ultrahigh capacitance and oxygen reduction performance. Journal of Materials Chemistry A, 2017, 5, 2012-2020.	5.2	36
38	Facile preparation of nitrogen and sulfur co-doped graphene-based aerogel for simultaneous removal of Cd2+ and organic dyes. Environmental Science and Pollution Research, 2018, 25, 21164-21175.	2.7	34
39	Enhancement of PAHs biodegradation in biosurfactant/phenol system by increasing the bioavailability of PAHs. Chemosphere, 2021, 266, 128941.	4.2	34
40	Inâ€situ Growth of a Bimetallic Cobaltâ€Nickel Organic Framework on Iron Foam: Achieving the Electron Modification on a Robust Selfâ€supported Oxygen Evolution Electrode. ChemCatChem, 2019, 11, 6061-6069.	1.8	33
41	Functional identification behind gravity-separated sludge in high concentration organic coking wastewater: Microbial aggregation, apoptosis-like decay and community. Water Research, 2019, 150, 120-128.	5.3	33
42	Simultaneous nitrite and ammonium production in an autotrophic partial denitrification and ammonification of wastewaters containing thiocyanate. Bioresource Technology, 2018, 252, 20-27.	4.8	32
43	Material inter-recycling for advanced nitrogen and residual COD removal from bio-treated coking wastewater through autotrophic denitrification. Bioresource Technology, 2019, 289, 121616.	4.8	32
44	One-step fabrication of membraneless microbial fuel cell cathode by electropolymerization of polypyrrole onto stainless steel mesh. Biosensors and Bioelectronics, 2011, 26, 3953-3957.	5.3	31
45	Application of metabolic division of labor in simultaneous removal of nitrogen and thiocyanate from wastewater. Water Research, 2019, 150, 216-224.	5.3	31
46	Carbon uptake bioenergetics of PAOs and GAOs in full-scale enhanced biological phosphorus removal systems. Water Research, 2022, 216, 118258.	5.3	30
47	Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater. Chemosphere, 2019, 228, 128-138.	4.2	29
48	Monodisperse microporous carbon nanospheres: An efficient and stable solid phase microextraction coating material. Analytica Chimica Acta, 2015, 884, 44-51.	2.6	26
49	Preparation of mesoporous SiO₂/Bi₂O₃/TiO₂ superhydrophilic thin films and their surface self-cleaning properties. RSC Advances, 2017, 7, 1966-1974.	1.7	26
50	Synergy between autotrophic denitrification and Anammox driven by FeS in a fluidized bed bioreactor for advanced nitrogen removal. Chemosphere, 2021, 280, 130726.	4.2	26
51	Anode-biofilm electron transfer behavior and wastewater treatment under different operational modes of bioelectrochemical system. Bioresource Technology, 2014, 157, 305-309.	4.8	24
52	A comprehensive evaluation method for sludge pyrolysis and adsorption process in the treatment of coking wastewater. Journal of Environmental Management, 2019, 235, 423-431.	3.8	24
53	Investigation of the fate of heavy metals based on process regulation-chemical reaction-phase distribution in an A-O1-H-O2 biological coking wastewater treatment system. Journal of Environmental Management, 2019, 247, 234-241.	3.8	23
54	Multiphase distribution and migration characteristics of heavy metals in typical sandy intertidal zones: insights from solid-liquid partitioning. Ecotoxicology and Environmental Safety, 2021, 208, 111674.	2.9	23

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55	Enhancement of visible-light photocatalytic activities of BiVO4 coupled with g-C3N4 prepared using different precursors. Environmental Science and Pollution Research, 2018, 25, 32466-32477.	2.7	22
56	Application of magnetic Cd²⁺ ion-imprinted mesoporous organosilica nanocomposites for mineral wastewater treatment. RSC Advances, 2017, 7, 7996-8003.	1.7	20
57	Simultaneous removal of thiocyanate and nitrogen from wastewater by autotrophic denitritation process. Bioresource Technology, 2018, 267, 30-37.	4.8	20
58	An Oxicâ€“Hydrolyticâ€“Oxic Process at the Nexus of Sludge Spatial Segmentation, Microbial Functionality, and Pollutants Removal in the Treatment of Coking Wastewater. ACS ES&T Water, 2021, 1, 1252-1262.	2.3	19
59	Spatial distributions, source apportionment and ecological risk of SVOCs in water and sediment from Xijiang River, Pearl River Delta. Environmental Geochemistry and Health, 2018, 40, 1853-1865.	1.8	18
60	Estrogenic activity and identification of potential xenoestrogens in a coking wastewater treatment plant. Ecotoxicology and Environmental Safety, 2015, 112, 238-246.	2.9	17
61	Identification of disinfection by-product precursors from the discharge of a coking wastewater treatment plant. RSC Advances, 2015, 5, 43786-43797.	1.7	17
62	In situ synthesis and photocatalytic mechanism of a cyano bridged Cu(<scp>i</scp>) polymer. Inorganic Chemistry Frontiers, 2018, 5, 1282-1287.	3.0	17
63	The mineralization of oxalic acid and bio-treated coking wastewater by catalytic ozonation using nickel oxide. Environmental Science and Pollution Research, 2018, 25, 2389-2400.	2.7	17
64	Simultaneous decarburization, nitrification and denitrification (SDCND) in coking wastewater treatment using an integrated fluidized-bed reactor. Journal of Environmental Management, 2019, 252, 109661.	3.8	17
65	The response of polycyclic aromatic hydrocarbon degradation in coking wastewater treatment after bioaugmentation with biosurfactant-producing bacteria Pseudomonas aeruginosa S5. Water Science and Technology, 2021, 83, 1017-1027.	1.2	17
66	One-step synthesis of periodic ion imprinted mesoporous silica particles for highly specific removal of Cd2+ from mine wastewater. Journal of Sol-Gel Science and Technology, 2016, 78, 632-640.	1.1	16
67	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. Environmental Pollution, 2018, 236, 343-354.	3.7	16
68	In-Situ Synthesis and High-Efficiency Photocatalytic Performance of Cu(I)/Cu(II) Inorganic Coordination Polymer Quantum Sheets. Inorganic Chemistry, 2018, 57, 13289-13295.	1.9	16
69	Self-Activated Ni Cathode for Electrocatalytic Nitrate Reduction to Ammonia: From Fundamentals to Scale-Up for Treatment of Industrial Wastewater. Environmental Science & Technology, 2021, 55, 13231-13243.	4.6	16
70	Detailed characteristics of adsorption of bisphenol A by highly hydrophobic MCM-41 mesoporous molecular sieves. Research on Chemical Intermediates, 2016, 42, 7169-7183.	1.3	15
71	Diversity and functional prediction of microbial communities involved in the first aerobic bioreactor of coking wastewater treatment system. PLoS ONE, 2020, 15, e0243748.	1.1	15
72	Glycine adversely affects enhanced biological phosphorus removal. Water Research, 2022, 209, 117894.	5.3	15

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73	Spectroscopic characterization of dissolved organic matter in coking wastewater during bio-treatment: full-scale plant study. Water Science and Technology, 2015, 72, 1411-1420.	1.2	14
74	A feasibility study of metal sulfide (FeS and MnS) on simultaneous denitrification and chromate reduction. Journal of Hazardous Materials, 2022, 424, 127491.	6.5	14
75	In-situ growth of Co/Ni bimetallic organic frameworks on carbon spheres with catalytic ozonation performance for removal of bio-treated coking wastewater. Chemosphere, 2022, 291, 132874.	4.2	14
76	Simple preparation of Mnâ€“N-codoped titania photocatalyst with visible light response. Research on Chemical Intermediates, 2010, 36, 95-101.	1.3	13
77	Isolation and Identification of Achromobacter sp. DN-06 and Evaluation of Its Pyridine Degradation Kinetics. Water, Air, and Soil Pollution, 2011, 221, 365-375.	1.1	13
78	Energy Balance Evaluation in Coking Wastewater Treatment: Optimization and Modeling of Integrated Biological and Adsorption Treatment System. ACS Sustainable Chemistry and Engineering, 2018, 6, 16448-16458.	3.2	13
79	Evolution of biochemical processes in coking wastewater treatment: A combined evaluation of material and energy efficiencies and secondary pollution. Science of the Total Environment, 2022, 807, 151072.	3.9	13
80	Minimizing toxic chlorinated byproducts during electrochemical oxidation of Ni-EDTA: Importance of active chlorine-triggered Fe(II) transition to Fe(IV). Water Research, 2022, 219, 118548.	5.3	13
81	Preparation of 3,3,3-trifluoropropyl functionalized hydrophobic mesoporous silica and its outstanding adsorption properties for dibutyl phthalate. RSC Advances, 2017, 7, 8338-8346.	1.7	12
82	Addition of iron oxides in sediments enhances 2,3,4,5-tetrachlorobiphenyl (PCB 61) dechlorination by low-voltage electric fields. RSC Advances, 2017, 7, 26019-26027.	1.7	12
83	Influence of soil evolution on the heavy metal risk in three kinds of intertidal zone of the Pearl River Estuary. Land Degradation and Development, 2021, 32, 583-596.	1.8	12
84	Preparation of an ion imprinted functionalized mesoporous silica for rapid and specific absorption Cr(<scp>iii</scp>) ions in effluents. RSC Advances, 2017, 7, 37778-37786.	1.7	11
85	Photocatalytic oxidation of nitrogen oxides over {001}TiO2: the influence of Fâ˜† ions. Environmental Science and Pollution Research, 2018, 25, 35342-35351.	2.7	11
86	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. Science of the Total Environment, 2018, 643, 527-538.	3.9	10
87	Distribution Characteristics of Volatile Organic Compounds and Contribution to Ozone Formation in a Coking Wastewater Treatment Plant. International Journal of Environmental Research and Public Health, 2020, 17, 553.	1.2	10
88	Anaerobic Dechlorination of Tetrachlorobisphenol A in River Sediment and Associated Changes in Bacterial Communities. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	9
89	Functional graphene oxide for organic pollutants removal from wastewater: a mini review. Environmental Technology (United Kingdom), 2023, 44, 3183-3195.	1.2	8
90	Study on preparation and properties of PVAâ€SAâ€PHBâ€AC composite carrier for microorganism immobilization. Journal of Applied Polymer Science, 2014, 131, .	1.3	5

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91	Immobilization of Phosphatidylserine by Ethanol and Lysozyme on the Cell Surface for Evaluation of Apoptosis-Like Decay in Activated-Sludge Bacteria. Applied and Environmental Microbiology, 2020, 86, .	1.4	5
92	Treatment of high-concentration phenolic wastewater by pyridineâ€“coal tar complexation extraction system. Desalination and Water Treatment, 2016, 57, 24417-24429.	1.0	3
93	Mechanism of Ozone Oxidation of Polycyclic Aromatic Hydrocarbons During the Reduction of Coking Wastewater Sludge. Clean - Soil, Air, Water, 2016, 44, 1499-1507.	0.7	3
94	Enhanced energy efficiency for the complete mineralization of diclofenac by self-sequential ultrasound enhanced ozonation. RSC Advances, 2020, 10, 15493-15500.	1.7	3
95	Effects of alkali, autoclaving, and Fe+ autoclaving pretreatment on anaerobic digestion performance of coking sludge from the perspective of sludge extracts and methane production. Environmental Science and Pollution Research, 2021, 28, 13151-13161.	2.7	3
96	Coking wastewater treatment plant as a sources of polycyclic aromatic hydrocarbons (PAHs) in sediments and ecological risk assessment. Scientific Reports, 2020, 10, 7833.	1.6	1
97	Modeling and optimization of the coagulation of highly concentrated coking wastewater by ferrous sulfate using a response surface methodology. Desalination and Water Treatment, 0, , 1-12.	1.0	0
98	The Use of Accumulated Charge Density of a Bioanode to Estimate Maximum Current in a Bioelectrochemical System. ChemElectroChem, 2015, 2, 1355-1360.	1.7	0