

Binbin Huang

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57
papers

3,014
citations

27
h-index

54
g-index

60
ext. papers

3,656
ext. citations

9.4
avg, IF

5.54
L-index

#	Paper	IF	Citations
57	Impact of humic/fulvic acid on the removal of heavy metals from aqueous solutions using nanomaterials: a review. <i>Science of the Total Environment</i> , 2014 , 468-469, 1014-27	10.2	478
56	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
55	Facile construction of novel direct solid-state Z-scheme AgI/BiOBr photocatalysts for highly effective removal of ciprofloxacin under visible light exposure: Mineralization efficiency and mechanisms. <i>Journal of Colloid and Interface Science</i> , 2018 , 522, 82-94	9.3	169
54	Biochar for environmental management: Mitigating greenhouse gas emissions, contaminant treatment, and potential negative impacts. <i>Chemical Engineering Journal</i> , 2019 , 373, 902-922	14.7	147
53	pH-dependent degradation of p-nitrophenol by sulfidated nanoscale zerovalent iron under aerobic or anoxic conditions. <i>Journal of Hazardous Materials</i> , 2016 , 320, 581-590	12.8	117
52	Phase transformation of crystalline iron oxides and their adsorption abilities for Pb and Cd. <i>Chemical Engineering Journal</i> , 2016 , 284, 247-259	14.7	115
51	Catalytic reduction-adsorption for removal of p-nitrophenol and its conversion p-aminophenol from water by gold nanoparticles supported on oxidized mesoporous carbon. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 78-85	9.3	112
50	Modulation of Bi MoO ₄ -Based Materials for Photocatalytic Water Splitting and Environmental Application: a Critical Review. <i>Small</i> , 2019 , 15, e1901008	11	104
49	Seed-mediated growth of MOF-encapsulated Pd@Ag core-shell nanoparticles: toward advanced room temperature nanocatalysts. <i>Chemical Science</i> , 2016 , 7, 228-233	9.4	102
48	Pd/Fe ₃ O ₄ nanocatalysts for highly effective and simultaneous removal of humic acids and Cr(VI) by electro-Fenton with H ₂ O ₂ in situ electro-generated on the catalyst surface. <i>Journal of Catalysis</i> , 2017 , 352, 337-350	7.3	73
47	Rational design of hollow N/Co-doped carbon spheres from bimetal-ZIFs for high-efficiency electrocatalysis. <i>Chemical Engineering Journal</i> , 2017 , 330, 736-745	14.7	71
46	Electrocatalytic properties of transition metals toward reductive dechlorination of polychloroethanes. <i>Electrochimica Acta</i> , 2012 , 70, 50-61	6.7	70
45	Complementary effects of torrefaction and co-pelletization: Energy consumption and characteristics of pellets. <i>Bioresource Technology</i> , 2015 , 185, 254-62	11	67
44	Ternary Z-scheme heterojunction of BiWO ₄ with reduced graphene oxide (rGO) and meso-tetra (4-carboxyphenyl) porphyrin (TCPP) for enhanced visible-light photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 115-125	9.3	61
43	Modified stannous sulfide nanoparticles with metal-organic framework: Toward efficient and enhanced photocatalytic reduction of chromium (VI) under visible light. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 481-492	9.3	59
42	Polyaniline@magnetic chitosan nanomaterials for highly efficient simultaneous adsorption and in-situ chemical reduction of hexavalent chromium: Removal efficacy and mechanisms. <i>Science of the Total Environment</i> , 2020 , 733, 139316	10.2	56
41	Electrochemical reductive dechlorination of chlorinated volatile organic compounds (Cl-VOCs): Effects of molecular structure on the dehalogenation reactivity and mechanisms. <i>Chemical Engineering Journal</i> , 2019 , 358, 1054-1064	14.7	54

40	Difunctional chitosan-stabilized Fe/Cu bimetallic nanoparticles for removal of hexavalent chromium wastewater. <i>Science of the Total Environment</i> , 2018 , 644, 1181-1189	10.2	52
39	Electrocatalytic dechlorination of volatile organic compounds at a copper cathode. Part I: Polychloromethanes. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 347-354	21.8	49
38	One pot synthesis of palladium-cobalt nanoparticles over carbon nanotubes as a sensitive non-enzymatic sensor for glucose and hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 1016-1025	8.5	46
37	Photocatalysis: Modulation of Bi ₂ MoO ₆ -Based Materials for Photocatalytic Water Splitting and Environmental Application: a Critical Review (Small 23/2019). <i>Small</i> , 2019 , 15, 1970122	11	42
36	Electrocatalytic dechlorination of volatile organic compounds at copper cathode. Part II: Polychloroethanes. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 355-362	21.8	41
35	Effective catalytic hydrodechlorination of o-, p- and m-chloronitrobenzene over Ni/Fe nanoparticles: Effects of experimental parameter and molecule structure on the reduction kinetics and mechanisms. <i>Chemical Engineering Journal</i> , 2016 , 306, 607-618	14.7	40
34	Modified crystal structure and improved photocatalytic activity of MIL-53 via inorganic acid modulator. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117746	21.8	30
33	Porous carbon supported Fe-N-C composite as an efficient electrocatalyst for oxygen reduction reaction in alkaline and acidic media. <i>Applied Surface Science</i> , 2017 , 411, 487-493	6.7	29
32	State-of-the-Art Advances and Challenges of Iron-Based Metal Organic Frameworks from Attractive Features, Synthesis to Multifunctional Applications. <i>Small</i> , 2019 , 15, e1803088	11	29
31	A proactive task dispatching method based on future bottleneck prediction for the smart factory. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 278-293	4.3	28
30	2,4,6-Trichlorophenol-promoted catalytic wet oxidation of humic substances and stabilized landfill leachate. <i>Chemical Engineering Journal</i> , 2014 , 247, 216-222	14.7	26
29	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 7710-7718	4.8	25
28	Determination of inequable fate and toxicity of Ag nanoparticles in a Phanerochaete chrysosporium biofilm system through different sulfide sources. <i>Environmental Science: Nano</i> , 2016 , 3, 1027-1035	7.1	25
27	Sensitive determination of capsaicin on Ag/Ag ₂ O nanoparticles/reduced graphene oxide modified screen-printed electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 776, 93-100	4.1	24
26	Highly selective electrochemical hydrogenation of acetylene to ethylene at Ag and Cu cathodes. <i>Electrochemistry Communications</i> , 2013 , 34, 90-93	5.1	21
25	A sensitive and selective amperometric hydrazine sensor based on palladium nanoparticles loaded on cobalt-wrapped nitrogen-doped carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 801, 215-223	4.1	21
24	One-step electrochemical deposition of Schiff base cobalt complex as effective water oxidation catalyst. <i>Applied Surface Science</i> , 2017 , 396, 121-128	6.7	21
23	Catalytic properties of transition metals modified nanoscale zero-valent iron for simultaneous removal of 4-chlorophenol and Cr(VI): Efficacy, descriptor and reductive mechanisms. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123827	12.8	20

22	Uncovering the intrinsic relationship of electrocatalysis and molecular electrochemistry for dissociative electron transfer to polychloroethanes at silver cathode. <i>Electrochimica Acta</i> , 2017 , 231, 590-600	6.7	18
21	Insights into Electroreductive Dehalogenation Mechanisms of Chlorinated Environmental Pollutants. <i>ChemElectroChem</i> , 2020 , 7, 1825-1837	4.3	18
20	Phanerochaete chrysosporium inoculation shapes the indigenous fungal communities during agricultural waste composting. <i>Biodegradation</i> , 2014 , 25, 669-80	4.1	18
19	A framework for shopfloor material delivery based on real-time manufacturing big data. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 1093-1108	3.7	18
18	Electrochemical-driven carbocatalysis as highly efficient advanced oxidation processes for simultaneous removal of humic acid and Cr(VI). <i>Chemical Engineering Journal</i> , 2020 , 396, 125156	14.7	16
17	Linear free energy relationships of electrochemical and thermodynamic parameters for the electrochemical reductive dechlorination of chlorinated volatile organic compounds (Cl-VOCs). <i>Electrochimica Acta</i> , 2016 , 208, 195-201	6.7	16
16	Electrochemical reduction of p-chloronitrobenzene (p-CNB) at silver cathode in dimethylformamide. <i>Electrochimica Acta</i> , 2019 , 296, 980-988	6.7	16
15	Highly efficient and selective catalytic hydrogenation of acetylene in N,N-dimethylformamide at room temperature. <i>Journal of Catalysis</i> , 2016 , 339, 14-20	7.3	14
14	A trinuclear copper(I) complex modified Au electrode based on a nonelectrocatalytic mechanism as hydrogen peroxide sensor. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 759, 194-200	4.1	13
13	Electrochemical-driven nanoparticulate catalysis for highly efficient dechlorination of chlorinated environmental pollutant. <i>Journal of Catalysis</i> , 2021 , 395, 362-374	7.3	11
12	Iron-Based Bimetallic Nanocatalysts for Highly Selective Hydrogenation of Acetylene in N,N-Dimethylformamide at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1668-1674	8.3	10
11	A feasible strategy for promoting activated sludge hydrolysis by using ironporphyrin modified Fe ₃ O ₄ nanoparticles as an efficient biomimic catalyst. <i>Chemical Engineering Journal</i> , 2015 , 280, 248-255	14.7	6
10	Surfactant-directed Pd-nanoparticle assemblies as efficient nanoreactors for water remediation. <i>EcoMat</i> , 2020 , 2, e12046	9.4	6
9	Ultrafine Pd nanoparticles@g-C ₃ N ₄ for highly efficient dehalogenation of chlorinated environmental pollutant: Structure, efficacy and mechanisms. <i>Science of the Total Environment</i> , 2021 , 775, 145178	10.2	6
8	Electric-Field-Driven Nanoparticles Produce Dual-Functional Bipolar Electrodes and Nanoelectrolytic Cells for Water Remediation. <i>Cell Reports Physical Science</i> , 2021 , 2, 100299	6.1	5
7	An Approach to Synthesize Schiff Base Cobalt Complex with Different Shape by Electrochemical Deposition. <i>Journal of the Electrochemical Society</i> , 2016 , 163, G26-G32	3.9	4
6	Electrocatalytic activation of organic chlorides via direct and indirect electron transfer using atomic vacancy control of palladium-based catalyst. <i>Cell Reports Physical Science</i> , 2022 , 3, 100713	6.1	1
5	Conductive-polymer-supported palladium-iron bimetallic nanocatalyst for simultaneous 4-chlorophenol and Cr(VI) removal: Enhanced interfacial electron transfer and mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127748	12.8	1

- 4 Mesoporous ferrihydrite-supported Pd nanoparticles for enhanced catalytic dehalogenation of chlorinated environmental pollutant. *Journal of Colloid and Interface Science*, **2021**, 608, 2907-2907 9.3 1
- 3 Reversible Self-Assembly/Regulation of pH-Responsive Poly(ester-palladium) to Create New Catalytic Nanoreactors for Efficient Reduction of Nitrophenol. *ACS Applied Nano Materials*, **2021**, 4, 6995-7006^{5,6} 1
- 2 Polypyrrole supported Pd/Fe bimetallic nanoparticles with enhanced catalytic activity for simultaneous removal of 4-chlorophenol and Cr(VI).. *Science of the Total Environment*, **2022**, 154754 10.2 1
- 1 Paragenesis of PalladiumCobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. *Chemistry - A European Journal*, **2017**, 23, 7625-7625 4.8