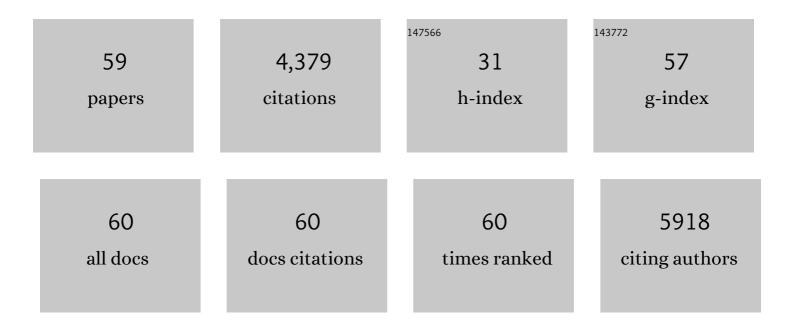
Binbin Huang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Impact of humic/fulvic acid on the removal of heavy metals from aqueous solutions using nanomaterials: A review. Science of the Total Environment, 2014, 468-469, 1014-1027.	3.9	605
2	Chlorinated volatile organic compounds (Cl-VOCs) in environment — sources, potential human health impacts, and current remediation technologies. Environment International, 2014, 71, 118-138.	4.8	586
3	Biochar for environmental management: Mitigating greenhouse gas emissions, contaminant treatment, and potential negative impacts. Chemical Engineering Journal, 2019, 373, 902-922.	6.6	256
4	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. Journal of Colloid and Interface Science, 2018, 522, 82-94.	5.0	207
5	Modulation of Bi ₂ MoO ₆ â€Based Materials for Photocatalytic Water Splitting and Environmental Application: a Critical Review. Small, 2019, 15, e1901008.	5.2	179
6	Phase transformation of crystalline iron oxides and their adsorption abilities for Pb and Cd. Chemical Engineering Journal, 2016, 284, 247-259.	6.6	155
7	pH-dependent degradation of p-nitrophenol by sulfidated nanoscale zerovalent iron under aerobic or anoxic conditions. Journal of Hazardous Materials, 2016, 320, 581-590.	6.5	147
8	Catalytic reduction–adsorption for removal of p-nitrophenol and its conversion p-aminophenol from water by gold nanoparticles supported on oxidized mesoporous carbon. Journal of Colloid and Interface Science, 2016, 469, 78-85.	5.0	128
9	Seed-mediated growth of MOF-encapsulated Pd@Ag core–shell nanoparticles: toward advanced room temperature nanocatalysts. Chemical Science, 2016, 7, 228-233.	3.7	128
10	Polyaniline@magnetic chitosan nanomaterials for highly efficient simultaneous adsorption and in-situ chemical reduction of hexavalent chromium: Removal efficacy and mechanisms. Science of the Total Environment, 2020, 733, 139316.	3.9	125
11	Stateâ€ofâ€ŧheâ€Art Advances and Challenges of Ironâ€Based Metal Organic Frameworks from Attractive Features, Synthesis to Multifunctional Applications. Small, 2019, 15, e1803088.	5.2	111
12	Pd/Fe3O4 nanocatalysts for highly effective and simultaneous removal of humic acids and Cr(VI) by electro-Fenton with H2O2 in situ electro-generated on the catalyst surface. Journal of Catalysis, 2017, 352, 337-350.	3.1	101
13	Rational design of hollow N/Co-doped carbon spheres from bimetal-ZIFs for high-efficiency electrocatalysis. Chemical Engineering Journal, 2017, 330, 736-745.	6.6	97
14	Modified stannous sulfide nanoparticles with metal-organic framework: Toward efficient and enhanced photocatalytic reduction of chromium (VI) under visible light. Journal of Colloid and Interface Science, 2018, 530, 481-492.	5.0	89
15	Electrocatalytic properties of transition metals toward reductive dechlorination of polychloroethanes. Electrochimica Acta, 2012, 70, 50-61.	2.6	88
16	Ternary Z-scheme heterojunction of Bi2WO6 with reduced graphene oxide (rGO) and meso-tetra (4-carboxyphenyl) porphyrin (TCPP) for enhanced visible-light photocatalysis. Journal of Colloid and Interface Science, 2019, 540, 115-125.	5.0	88
17	Electrochemical reductive dechlorination of chlorinated volatile organic compounds (Cl-VOCs): Effects of molecular structure on the dehalogenation reactivity and mechanisms. Chemical Engineering Journal, 2019, 358, 1054-1064.	6.6	88
18	Complementary effects of torrefaction and co-pelletization: Energy consumption and characteristics of pellets. Bioresource Technology, 2015, 185, 254-262.	4.8	84

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19	Difunctional chitosan-stabilized Fe/Cu bimetallic nanoparticles for removal of hexavalent chromium wastewater. Science of the Total Environment, 2018, 644, 1181-1189.	3.9	76
20	Photocatalysis: Modulation of Bi ₂ MoO ₆ â€Based Materials for Photocatalytic Water Splitting and Environmental Application: a Critical Review (Small 23/2019). Small, 2019, 15, 1970122.	5.2	70
21	Electrocatalytic dechlorination of volatile organic compounds at a copper cathode. Part I: Polychloromethanes. Applied Catalysis B: Environmental, 2012, 126, 347-354.	10.8	61
22	One pot synthesis of palladium-cobalt nanoparticles over carbon nanotubes as a sensitive non-enzymatic sensor for glucose and hydrogen peroxide detection. Sensors and Actuators B: Chemical, 2017, 252, 1016-1025.	4.0	56
23	Electrocatalytic dechlorination of volatile organic compounds at copper cathode. Part II: Polychloroethanes. Applied Catalysis B: Environmental, 2012, 126, 355-362.	10.8	53
24	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. Chemical Engineering Journal, 2016, 306, 607-618.	6.6	53
25	Modified crystal structure and improved photocatalytic activity of MIL-53 via inorganic acid modulator. Applied Catalysis B: Environmental, 2019, 255, 117746.	10.8	46
26	Catalytic properties of transition metals modified nanoscale zero-valent iron for simultaneous removal of 4-chlorophenol and Cr(VI): Efficacy, descriptor and reductive mechanisms. Journal of Hazardous Materials, 2021, 403, 123827.	6.5	44
27	A proactive task dispatching method based on future bottleneck prediction for the smart factory. International Journal of Computer Integrated Manufacturing, 2019, 32, 278-293.	2.9	42
28	Porous carbon supported Fe-N-C composite as an efficient electrocatalyst for oxygen reduction reaction in alkaline and acidic media. Applied Surface Science, 2017, 411, 487-493.	3.1	40
29	Insights into Electroreductive Dehalogenation Mechanisms of Chlorinated Environmental Pollutants. ChemElectroChem, 2020, 7, 1825-1837.	1.7	39
30	Sensitive determination of capsaicin on Ag/Ag2O nanoparticles/reduced graphene oxide modified screen-printed electrode. Journal of Electroanalytical Chemistry, 2016, 776, 93-100.	1.9	34
31	Electrochemical-driven carbocatalysis as highly efficient advanced oxidation processes for simultaneous removal of humic acid and Cr(VI). Chemical Engineering Journal, 2020, 396, 125156.	6.6	33
32	Highly selective electrochemical hydrogenation of acetylene to ethylene at Ag and Cu cathodes. Electrochemistry Communications, 2013, 34, 90-93.	2.3	30
33	Paragenesis of Palladium–Cobalt Nanoparticle in Nitrogenâ€Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogenâ€Evolution Reaction and Oxygenâ€Reduction Reaction. Chemistry - A European Journal, 2017, 23, 7710-7718.	1.7	29
34	A framework for shopfloor material delivery based on real-time manufacturing big data. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1093-1108.	3.3	29
35	A sensitive and selective amperometric hydrazine sensor based on palladium nanoparticles loaded on cobalt-wrapped nitrogen-doped carbon nanotubes. Journal of Electroanalytical Chemistry, 2017, 801, 215-223.	1.9	28
36	2,4,6-Trichlorophenol-promoted catalytic wet oxidation of humic substances and stabilized landfill leachate. Chemical Engineering Journal, 2014, 247, 216-222.	6.6	27

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37	Electrochemical reduction of p-chloronitrobenzene (p-CNB) at silver cathode in dimethylformamide. Electrochimica Acta, 2019, 296, 980-988.	2.6	26
38	Electrochemical-driven nanoparticulate catalysis for highly efficient dechlorination of chlorinated environmental pollutant. Journal of Catalysis, 2021, 395, 362-374.	3.1	26
39	Determination of inequable fate and toxicity of Ag nanoparticles in a Phanerochaete chrysosporium biofilm system through different sulfide sources. Environmental Science: Nano, 2016, 3, 1027-1035.	2.2	25
40	Phanerochaete chrysosporium inoculation shapes the indigenous fungal communities during agricultural waste composting. Biodegradation, 2014, 25, 669-680.	1.5	22
41	Uncovering the intrinsic relationship of electrocatalysis and molecular electrochemistry for dissociative electron transfer to polychloroethanes at silver cathode. Electrochimica Acta, 2017, 231, 590-600.	2.6	22
42	One-step electrochemical deposition of Schiff base cobalt complex as effective water oxidation catalyst. Applied Surface Science, 2017, 396, 121-128.	3.1	21
43	Ultrafine Pd nanoparticles@g-C3N4 for highly efficient dehalogenation of chlorinated environmental pollutant: Structure, efficacy and mechanisms. Science of the Total Environment, 2021, 775, 145178.	3.9	21
44	Linear free energy relationships of electrochemical and thermodynamic parameters for the electrochemical reductive dechlorination of chlorinated volatile organic compounds (Cl-VOCs). Electrochimica Acta, 2016, 208, 195-201.	2.6	20
45	Neuron-inspired design of hierarchically porous carbon networks embedded with single-iron sites for efficient oxygen reduction. Science China Chemistry, 2022, 65, 1445-1452.	4.2	17
46	A trinuclear copper(I) complex modified Au electrode based on a nonelectrocatalytic mechanism as hydrogen peroxide sensor. Journal of Electroanalytical Chemistry, 2015, 759, 194-200.	1.9	15
47	Highly efficient and selective catalytic hydrogenation of acetylene in N,N-dimethylformamide at room temperature. Journal of Catalysis, 2016, 339, 14-20.	3.1	15
48	Iron-Based Bimetallic Nanocatalysts for Highly Selective Hydrogenation of Acetylene in <i>N</i> , <i>N</i> -Dimethylformamide at Room Temperature. ACS Sustainable Chemistry and Engineering, 2017, 5, 1668-1674.	3.2	14
49	Electrocatalytic activation of organic chlorides via direct and indirect electron transfer using atomic vacancy control of palladium-based catalyst. Cell Reports Physical Science, 2022, 3, 100713.	2.8	14
50	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, 831, 154754.	3.9	13
51	Conductive-polymer-supported palladium-iron bimetallic nanocatalyst for simultaneous 4-chlorophenol and Cr(VI) removal: Enhanced interfacial electron transfer and mechanism. Journal of Hazardous Materials, 2022, 424, 127748.	6.5	12
52	A feasible strategy for promoting activated sludge hydrolysis by using ironporphyrin modified Fe3O4 nanoparticles as an efficient biomimic catalyst. Chemical Engineering Journal, 2015, 280, 248-255.	6.6	11
53	Surfactantâ€directed Pdâ€nanoparticle assemblies as efficient nanoreactors for water remediation. EcoMat, 2020, 2, e12046.	6.8	11
54	Electric-Field-Driven Nanoparticles Produce Dual-Functional Bipolar Electrodes and Nanoelectrolytic Cells for Water Remediation. Cell Reports Physical Science, 2021, 2, 100299.	2.8	10

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55	Mesoporous ferrihydrite-supported Pd nanoparticles for enhanced catalytic dehalogenation of chlorinated environmental pollutant. Journal of Colloid and Interface Science, 2022, 608, 2907-2920.	5.0	6
56	An Approach to Synthesize Schiff Base Cobalt Complex with Different Shape by Electrochemical Deposition. Journal of the Electrochemical Society, 2016, 163, G26-G32.	1.3	4
57	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.	2.4	1
58	Pd/Fe3O4 Nanocatalysts for Highly Effective and Simultaneous Removal of Humic Acids and Cr(VI) By Electro-Fenton with H2O2 in-Situ Electro-Generated on the Catalyst Surface. ECS Meeting Abstracts, 2018, , .	0.0	1
59	Paragenesis of Palladium-Cobalt 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.	1.7	0