

Hongying Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

3,394
citations

218381

26
h-index

414034

32
g-index

32
all docs

32
docs citations

32
times ranked

3527
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic ordered mesoporous copper ferrite as a heterogeneous Fenton catalyst for the degradation of imidacloprid. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 534-545.	10.8	369
2	Iron-copper bimetallic nanoparticles embedded within ordered mesoporous carbon as effective and stable heterogeneous Fenton catalyst for the degradation of organic contaminants. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 396-406.	10.8	347
3	Conductive diamond: synthesis, properties, and electrochemical applications. <i>Chemical Society Reviews</i> , 2019, 48, 157-204.	18.7	333
4	Electro-Fenton oxidation of pesticides with a novel Fe ₃ O ₄ @Fe ₂ O ₃ /activated carbon aerogel cathode: High activity, wide pH range and catalytic mechanism. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 120-127.	10.8	287
5	Continuous Bulk FeCuC Aerogel with Ultradispersed Metal Nanoparticles: An Efficient 3D Heterogeneous Electro-Fenton Cathode over a Wide Range of pH 3-9. <i>Environmental Science & Technology</i> , 2016, 50, 5225-5233.	4.6	193
6	In Situ-Formed PdFe Nanoalloy and Carbon Defects in Cathode for Synergic Reduction-Oxidation of Chlorinated Pollutants in Electro-Fenton Process. <i>Environmental Science & Technology</i> , 2020, 54, 4564-4572.	4.6	143
7	Selective catalytic two-electron O ₂ reduction for onsite efficient oxidation reaction in heterogeneous electro-Fenton process. <i>Chemical Engineering Journal</i> , 2018, 332, 486-498.	6.6	141
8	Selective Electrocatalytic Reduction of Oxygen to Hydroxyl Radicals via 3e ⁻ Electron Pathway with FeCo Alloy Encapsulated Carbon Aerogel for Fast and Complete Removing Pollutants. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10375-10383.	7.2	141
9	Three-Dimensional Homogeneous Ferrite-Carbon Aerogel: One Pot Fabrication and Enhanced Electro-Fenton Reactivity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 842-852.	4.0	136
10	Enhanced Oxidative and Adsorptive Removal of Diclofenac in Heterogeneous Fenton-like Reaction with Sulfide Modified Nanoscale Zerovalent Iron. <i>Environmental Science & Technology</i> , 2018, 52, 6466-6475.	4.6	129
11	Accelerated Fe ²⁺ Regeneration in an Effective Electro-Fenton Process by Boosting Internal Electron Transfer to a Nitrogen-Conjugated Fe(III) Complex. <i>Environmental Science & Technology</i> , 2021, 55, 6042-6051.	4.6	129
12	Introduction of a Fe ₃ O ₄ Core Enhances the Photocatalytic Activity of MIL-100(Fe) with Tunable Shell Thickness in the Presence of H ₂ O ₂ . <i>ChemCatChem</i> , 2015, 7, 4148-4155.	1.8	90
13	Efficiently degradation of perfluorooctanoic acid in synergic electrochemical process combining cathodic electro-Fenton and anodic oxidation. <i>Chemical Engineering Journal</i> , 2019, 378, 122071.	6.6	89
14	Rapid Mineralization of Azo-Dye Wastewater by Microwave Synergistic Electro-Fenton Oxidation Process. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7457-7463.	1.5	84
15	Fabrication of novel SnO ₂ -Sb/carbon aerogel electrode for ultrasonic electrochemical oxidation of perfluorooctanoate with high catalytic efficiency. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 278-286.	10.8	84
16	Electrosorption enhanced electro-Fenton process for efficient mineralization of imidacloprid based on mixed-valence iron oxide composite cathode at neutral pH. <i>Chemical Engineering Journal</i> , 2013, 223, 524-535.	6.6	79
17	Efficient removal of dimethyl phthalate with activated iron-doped carbon aerogel through an integrated adsorption and electro-Fenton oxidation process. <i>Carbon</i> , 2017, 124, 111-122.	5.4	72
18	Simultaneously accelerating the regeneration of Fe ^{II} and the selectivity of 2e ⁻ oxygen reduction over sulfide iron-based carbon aerogel in electro-Fenton system. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119039.	10.8	68

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19	A COOH-terminated nitrogen-doped carbon aerogel as a bulk electrode for completely selective two-electron oxygen reduction to H ₂ O ₂ . Chemical Communications, 2019, 55, 6173-6176.	2.2	66
20	Recent advances and trends of heterogeneous electro-Fenton process for wastewater treatment-review. Chinese Chemical Letters, 2022, 33, 653-662.	4.8	64
21	Selective photoelectrocatalytic tuning of benzyl alcohol to benzaldehyde for enhanced hydrogen production. Applied Catalysis B: Environmental, 2021, 286, 119868.	10.8	61
22	Selectively photoelectrocatalytic reduction of oxygen to hydroxyl radical and singlet oxygen: Mechanism and validation in coal wastewater. Applied Catalysis B: Environmental, 2021, 286, 119908.	10.8	61
23	Construction of a bifunctional electrode interface for efficient electrochemical mineralization of recalcitrant pollutants. Applied Catalysis B: Environmental, 2018, 237, 473-481.	10.8	33
24	Reinvestigating the role of reactive species in the oxidation of organic co-contaminants during Cr(VI) reactions with sulfite. Chemosphere, 2018, 196, 593-597.	4.2	32
25	Fast Generation of Hydroxyl Radicals by Rerouting the Electron Transfer Pathway via Constructed Chemical Channels during the Photo-Electro-Reduction of Oxygen. Environmental Science & Technology, 2022, 56, 1331-1340.	4.6	30
26	Highly Ordered Mesoporous Fe ₃ O ₄ @Carbon Embedded Composite: High Catalytic Activity, Wide pH Range and Stability for Heterogeneous Electro-Fenton. Electroanalysis, 2016, 28, 169-176.	1.5	29
27	Selective Photoelectrocatalytic Removal for Group-Targets of Phthalic Esters. Environmental Science & Technology, 2021, 55, 2618-2627.	4.6	27
28	Preferential and efficient degradation of phenolic pollutants with cooperative hydrogen-bond interactions in photocatalytic process. Chemosphere, 2021, 269, 129404.	4.2	25
29	Reductive dechlorination of haloacetamides in drinking water by Cu/Fe bimetal. Separation and Purification Technology, 2018, 203, 226-232.	3.9	24
30	Simultaneous mitigation of disinfection by-product formation and odor compounds by peroxide/Fe(II)-based process: Combination of oxidation and coagulation. Water Research, 2021, 201, 117327.	5.3	13
31	Ultrasonic Electrochemical Reaction on Boron-Doped Diamond Electrodes: Reaction Pathway and Mechanism. ChemElectroChem, 2015, 2, 366-373.	1.7	9
32	Selective Electrocatalytic Reduction of Oxygen to Hydroxyl Radicals via 3e ⁻ Electron Pathway with FeCo Alloy Encapsulated Carbon Aerogel for Fast and Complete Removing Pollutants. Angewandte Chemie, 2021, 133, 10463-10471.	1.6	6