Deli Wu

List of Publications by Year
in descending order

88 papers	4,891 citations	109321 35 h-index	95266 68 g-index
88 all docs	88 docs citations	88 times ranked	3506 citing authors

#	Article	IF	Citations
1	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO₂ Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. Environmental Science & Technology, 2016, 50, 3119-3127.	10.0	563
2	Unraveling the Overlooked Involvement of High-Valent Cobalt-Oxo Species Generated from the Cobalt(II)-Activated Peroxymonosulfate Process. Environmental Science & Technology, 2020, 54, 16231-16239.	10.0	310
3	Efficient degradation of sulfamethazine with CuCo2O4 spinel nanocatalysts for peroxymonosulfate activation. Chemical Engineering Journal, 2015, 280, 514-524.	12.7	261
4	Mackinawite (FeS) activation of persulfate for the degradation of p-chloroaniline: Surface reaction mechanism and sulfur-mediated cycling of iron species. Chemical Engineering Journal, 2018, 333, 657-664.	12.7	234
5	Enhanced Oxidation of Organic Contaminants by Iron(II)-Activated Periodate: The Significance of High-Valent Ironâ€“Oxo Species. Environmental Science & Technology, 2021, 55, 7634-7642.	10.0	208
6	Continuous Bulk FeCuC Aerogel with Ultradispersed Metal Nanoparticles: An Efficient 3D Heterogeneous Electro-Fenton Cathode over a Wide Range of pH 3â€“9. Environmental Science & Technology, 2016, 50, 5225-5233.	10.0	193
7	Activation of persulfate with metalâ€“organic framework-derived nitrogen-doped porous Co@C nanoboxes for highly efficient p-Chloroaniline removal. Chemical Engineering Journal, 2019, 358, 408-418.	12.7	177
8	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/Al 2 O 3) catalyzed peroxymonosulfate. Water Research, 2017, 120, 12-21.	11.3	172
9	Facile synthesis of highly reactive and stable Fe-doped g-C3N4 composites for peroxymonosulfate activation: A novel nonradical oxidation process. Journal of Hazardous Materials, 2018, 354, 63-71.	12.4	154
10	MOF-derived metal-free N-doped porous carbon mediated peroxydisulfate activation via radical and non-radical pathways: Role of graphitic N and C O. Chemical Engineering Journal, 2020, 380, 122584.	12.7	124
11	Degradation of contaminants by Cu + -activated molecular oxygen in aqueous solutions: Evidence for cupryl species (Cu 3+). Journal of Hazardous Materials, 2017, 331, 81-87.	12.4	99
12	Reductive dechlorination of carbon tetrachloride by zero-valent iron and related iron corrosion. Applied Catalysis B: Environmental, 2009, 91, 434-440.	20.2	95
13	Enhanced degradation of chloramphenicol at alkaline conditions by S(-II) assisted heterogeneous Fenton-like reactions using pyrite. Chemosphere, 2017, 188, 557-566.	8.2	95
14	Synthesis of ordered mesoporous iron manganese bimetal oxides for arsenic removal from aqueous solutions. Microporous and Mesoporous Materials, 2014, 200, 235-244.	4.4	91
15	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfateâ€“Iodide Metal-Free Oxidation: Role of Iodine Atoms. Environmental Science & Technology, 2017, 51, 2312-2320.	10.0	86
16	Enhanced As(III) Sequestration Using Sulfide-Modified Nano-Scale Zero-Valent Iron with a Characteristic Coreâ€“Shell Structure: Sulfidation and As Distribution. ACS Sustainable Chemistry and Engineering, 2018, 6, 3039-3048.	6.7	85
17	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. Chemical Engineering Journal, 2018, 336, 416-426.	12.7	77
18	Enhanced oxidation of chloramphenicol by GLDA-driven pyrite induced heterogeneous Fenton-like reactions at alkaline condition. Chemical Engineering Journal, 2016, 294, 49-57.	12.7	71

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19	A metal-free method of generating sulfate radicals through direct interaction of hydroxylamine and peroxymonosulfate: Mechanisms, kinetics, and implications. Chemical Engineering Journal, 2017, 330, 906-913.	12.7	68
20	A crosslinking-induced precipitation process for the simultaneous removal of poly(vinyl alcohol) and reactive dye: The importance of covalent bond forming and magnesium coagulation. Chemical Engineering Journal, 2019, 374, 904-913.	12.7	68
21	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. ACS Sustainable Chemistry and Engineering, 2018, 6, 3624-3631.	6.7	67
22	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. Water Research, 2019, 149, 1-8.	11.3	64
23	Red mud powders as low-cost and efficient catalysts for persulfate activation: Pathways and reusability of mineralizing sulfadiazine. Separation and Purification Technology, 2016, 167, 136-145.	7.9	62
24	Enhanced mineralization of dimethyl phthalate by heterogeneous ozonation over nanostructured Cu-Fe-O surfaces: Synergistic effect and radical chain reactions. Separation and Purification Technology, 2019, 209, 588-597.	7.9	55
25	Surface-mediated periodate activation by nano zero-valent iron for the enhanced abatement of organic contaminants. Journal of Hazardous Materials, 2022, 423, 126991.	12.4	53
26	High-valent cobalt-oxo species triggers hydroxyl radical for collaborative environmental decontamination. Applied Catalysis B: Environmental, 2022, 300, 120722.	20.2	52
27	Enhanced mineralization of oxalate by highly active and Stable Ce(III)-Doped g-C3N4 catalyzed ozonation. Chemosphere, 2020, 239, 124612.	8.2	50
28	Spherical Cu2O-Fe3O4@chitosan bifunctional catalyst for coupled Cr-organic complex oxidation and Cr(VI) capture-reduction. Chemical Engineering Journal, 2020, 383, 123105.	12.7	43
29	Applicability study on the degradation of acetaminophen via an H2O2/PDS-based advanced oxidation process using pyrite. Chemosphere, 2018, 212, 438-446.	8.2	42
30	Selective Recovery of Phosphorus from Synthetic Urine Using Flow-Electrode Capacitive Deionization (FCDI)-Based Technology. ACS ES&T Water, 2021, 1, 175-184.	4.6	41
31	Ferric iron enhanced chloramphenicol oxidation in pyrite (FeS2) induced Fenton-like reactions. Separation and Purification Technology, 2015, 154, 60-67.	7.9	39
32	Can flow-electrode capacitive deionization become a new in-situ soil remediation technology for heavy metal removal?. Journal of Hazardous Materials, 2021, 402, 123568.	12.4	39
33	Electrochemical study of nitrobenzene reduction on galvanically replaced nanoscale Fe/Au particles. Journal of Hazardous Materials, 2011, 197, 424-429.	12.4	38
34	Ozonation of dimethyl phthalate catalyzed by highly active Cu O-Fe3O4 nanoparticles prepared with zero-valent iron as the innovative precursor. Environmental Pollution, 2017, 227, 73-82.	7.5	38
35	Activation of peroxymonosulfate by Fe0@Fe3O4 core-shell nanowires for sulfate radical generation: Electron transfer and transformation products. Separation and Purification Technology, 2020, 247, 116942.	7.9	38
36	Enhancing the dioxygen activation for arsenic removal by Cu0 nano-shell-decorated nZVI: Synergistic effects and mechanisms. Chemical Engineering Journal, 2020, 384, 123295.	12.7	36

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37	Advantages of aeration in arsenic removal and arsenite oxidation by structural Fe(II) hydroxides in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 703-710.	4.7	35
38	Non-selective degradation of organic pollutants via dioxygen activation induced by Fe(II)-tetrapolyphosphate complexes: Identification of reactive oxidant and kinetic modeling. Chemical Engineering Journal, 2020, 398, 125603.	12.7	34
39	Scale-up desalination: Membrane-current collector assembly in flow-electrode capacitive deionization system. Water Research, 2021, 190, 116782.	11.3	34
40	Highly efficient degradation of dimethyl phthalate from Cu(II) and dimethyl phthalate wastewater by EDTA enhanced ozonation: Performance, intermediates and mechanism. Journal of Hazardous Materials, 2019, 366, 378-385.	12.4	33
41	Sequestration of hexavalent chromium by Fe(II)/Fe(III) hydroxides: Structural Fe(II) reactivity and PO43â˘ effect. Chemical Engineering Journal, 2016, 283, 948-955.	12.7	32
42	Oxidation of Azo Dyes by H2O2 in Presence of Natural Pyrite. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	30
43	Sequestration of chelated copper by structural Fe(II): Reductive decomplexation and transformation of CuII-EDTA. Journal of Hazardous Materials, 2016, 309, 116-125.	12.4	30
44	Selective recovery of phosphorus and urea from fresh human urine using a liquid membrane chamber integrated flow-electrode electrochemical system. Water Research, 2021, 202, 117423.	11.3	30
45	Effect of struvite seed crystal on MAP crystallization. Journal of Chemical Technology and Biotechnology, 2011, 86, 1394-1398.	3.2	28
46	Initial dissolved oxygen-adjusted electrochemical generation of sulfate green rust for cadmium removal using a closed-atmosphere Feâ€"electrocoagulation system. Chemical Engineering Journal, 2019, 359, 1411-1418.	12.7	28
47	Nonradical degradation of microorganic pollutants by magnetic N-doped graphitic carbon: A complement to the unactivated peroxymonosulfate. Chemical Engineering Journal, 2020, 392, 123724.	12.7	28
48	Opposite effects of dissolved oxygen on the removal of As(III) and As(V) by carbonate structural Fe(II). Scientific Reports, 2017, 7, 17015.	3.3	26
49	Denitrification of nitrite by ferrous hydroxy complex: Effects on nitrous oxide and ammonium formation. Chemical Engineering Journal, 2015, 279, 149-155.	12.7	25
50	Enhanced phosphate removal by nano-lanthanum hydroxide embedded silica aerogel composites: Superior performance and insights into specific adsorption mechanism. Separation and Purification Technology, 2022, 285, 120365.	7.9	25
51	The role of structural elements and its oxidative products on the surface of ferrous sulfide in reducing the electron-withdrawing groups of tetracycline. Chemical Engineering Journal, 2019, 378, 122195.	12.7	24
52	Magnetic pyrite cinder as an efficient heterogeneous ozonation catalyst and synergetic effect of deposited Ce. Chemosphere, 2016, 155, 127-134.	8.2	23
53	Sulfate radical-induced destruction of emerging contaminants using traces of cobalt ions as catalysts. Chemosphere, 2020, 256, 127061.	8.2	23
54	Role of reactive oxygen species in As(III) oxidation by carbonate structural Fe(II): A surface-mediated pathway. Chemical Engineering Journal, 2019, 368, 980-987.	12.7	22

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55	Cu(III) generation and air sparging extend catalytic effectiveness of Cu2S/H2O2 from neutral to acidic condition: performance and mechanism in comparison with CuS/H2O2. Journal of Cleaner Production, 2021, 278, 123572.	9.3	22
56	Enhancing Brackish Water Desalination using Magnetic Flow-electrode Capacitive Deionization. Water Research, 2022, 216, 118290.	11.3	22
57	Electrochemical reductive degradation of chlorobenzene using galvanically replaced Pd/Fe nanoscale particles. Chemical Engineering Journal, 2014, 241, 376-383.	12.7	21
58	Mechanistic insight into the generation of high-valent iron-oxo species via peroxymonosulfate activation: An experimental and density functional theory study. Chemical Engineering Journal, 2021, 420, 130477.	12.7	21
59	Electrochemical reductive dechlorination of carbon tetrachloride on nanostructured Pd thin films. Electrochemistry Communications, 2008, 10, 1474-1477.	4.7	20
60	Remarkable phosphate recovery from wastewater by a novel Ca/Fe composite: Synergistic effects of crystal structure and abundant oxygen-vacancies. Chemosphere, 2021, 266, 129102.	8.2	20
61	Activation of dissolved molecular oxygen by Cu(0) for bisphenol a degradation: Role of Cu(0) and formation of reactive oxygen species. Chemosphere, 2020, 241, 125034.	8.2	19
62	Novel iron metal matrix composite reinforced by quartz sand for the effective dechlorination of aqueous 2-chlorophenol. Chemosphere, 2016, 146, 308-314.	8.2	18
63	Oxidation of acetaminophen by Green rust coupled with Cu(II) via dioxygen activation: The role of various interlayer anions (CO32â˘, SO42â˘, Clâ˘). Chemical Engineering Journal, 2018, 350, 930-938.	12.7	16
64	Insight into electrosorption behavior of monovalent ions and their selectivity in capacitive deionization: An atomic level study by molecular dynamics simulation. Chemical Engineering Journal, 2021, 415, 128920.	12.7	16
65	Reduced cathodic scale and enhanced electrochemical precipitation of Ca2+ and Mg2+ by a novel fenced cathode structure: Formation of strong alkaline microenvironment and favorable crystallization. Water Research, 2022, 209, 117893.	11.3	15
66	Application of Fenton pre-oxidation, Ca-induced coagulation, and sludge reclamation for enhanced treatment of ultra-high concentration poly(vinyl alcohol) wastewater. Journal of Hazardous Materials, 2020, 389, 121866.	12.4	14
67	Enhancing the degradation of bisphenol A by dioxygen activation using bimetallic Cu/Fe@zeolite: Critical role of Cu(I) and superoxide radical. Separation and Purification Technology, 2020, 253, 117550.	7.9	14
68	Highly selective oxidation of organic contaminants in the RuIII-activated peroxymonosulfate process: The dominance of RuVO species. Chemosphere, 2021, 285, 131544.	8.2	13
69	Selective recovery of formic acid from wastewater using an ion-capture electrochemical system integrated with a liquid-membrane chamber. Chemical Engineering Journal, 2021, 425, 131429.	12.7	13
70	Comparative performance of green rusts generated in Fe0â€"electrocoagulation for Cd2+ removal from high salinity wastewater: Mechanisms and optimization. Journal of Environmental Management, 2019, 237, 495-503.	7.8	12
71	Effect of anthraquinone-2,6-disulfonate (AQDS) on anaerobic digestion under ammonia stress: Triggering mediated interspecies electron transfer (MIET). Science of the Total Environment, 2022, 828, 154158.	8.0	12
72	Partial nitrification performance and microbial community evolution in the membrane bioreactor for saline stream treatment. Bioresource Technology, 2021, 320, 124419.	9.6	11

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73	Immobilization of selenite from aqueous solution by structural ferrous hydroxide complexes. RSC Advances, 2017, 7, 13398-13405.	3.6	10
74	Magnetic array for efficient and stable Flow-electrode capacitive deionization. Chemical Engineering Journal, 2022, 446, 137415.	12.7	10
75	Mineral transformation of structural Fe(II) hydroxides with O 2 , Cu(II), Cr(VI) and NO 2 âˆ’ for enhanced arsenite sequestration. Chemical Engineering Journal, 2017, 311, 247-254.	12.7	9
76	Supported palladium nanoparticles as highly efficient catalysts for radical production: Support-dependent synergistic effects. Chemosphere, 2018, 207, 27-32.	8.2	9
77	TiO2 and SiO2 Nanoparticles Combined with Surfactants Mitigate the Toxicity of Cd2+ to Wheat Seedlings. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	9
78	Cu(II)-enhanced activation of molecular oxygen using Fe(II): Factors affecting the yield of oxidants. Chemosphere, 2019, 221, 383-391.	8.2	8
79	Biodegradation and potential effect of ranitidine during aerobic composting of human feces. Chemosphere, 2022, 296, 134062.	8.2	8
80	Pyrite-enhanced degradation of chloramphenicol by low concentrations of H2O2. Water Science and Technology, 2015, 72, 180-186.	2.5	5
81	Membrane-Current Collector-Based Flow-Electrode Capacitive Deionization System: A Novel Stack Configuration for Scale-Up Desalination. Environmental Science & Technology, 2021, 55, 13286-13296.	10.0	5
82	Sequestration of free and chelated Ni(II) by structural Fe(II): Performance and mechanisms. Environmental Pollution, 2022, 292, 118374.	7.5	5
83	Molecular understanding of aqueous electrolyte properties and dielectric effect in a CDI system. Chemical Engineering Journal, 2022, 435, 134750.	12.7	5
84	Effects of Cu²⁺, Ag⁺, and Pd²⁺on the reductive debromination of 2,5-dibromoaniline by the ferrous hydroxy complex. Environmental Technology (United Kingdom), 2015, 36, 901-908.	2.2	3
85	Enhanced mineralization of aqueous Reactive Black 5 by catalytic ozonation in the presence of modified GAC. Desalination and Water Treatment, 2016, 57, 14997-15006.	1.0	3
86	Pyrite cinder as a cost-effective heterogeneous catalyst in heterogeneous Fenton reaction: decomposition of H2O2 and degradation of Acid Red B. Water Science and Technology, 2014, 70, 1548-1554.	2.5	2
87	Continuous-flow ozonation over modified ceramsite: implications for the degradation of cation red x-GRL. Water Science and Technology, 2018, 78, 2577-2585.	2.5	2
88	Aqueous nickel sequestration and release during structural Fe(ii) hydroxide remediation: the roles of coprecipitation, reduction and substitution. RSC Advances, 2016, 6, 85347-85354.	3.6	1