

Deli Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,810
citations

28
h-index

51
g-index

88
ext. papers

3,857
ext. citations

10.6
avg, IF

5.86
L-index

#	Paper	IF	Citations
87	Molecular understanding of aqueous electrolyte properties and dielectric effect in a CDI system. <i>Chemical Engineering Journal</i> , 2022 , 435, 134750	14.7	0
86	Enhanced phosphate removal by nano-lanthanum hydroxide embedded silica aerogel composites: Superior performance and insights into specific adsorption mechanism. <i>Separation and Purification Technology</i> , 2022 , 285, 120365	8.3	1
85	Sequestration of free and chelated Ni(II) by structural Fe(II): Performance and mechanisms. <i>Environmental Pollution</i> , 2022 , 292, 118374	9.3	0
84	Surface-mediated periodate activation by nano zero-valent iron for the enhanced abatement of organic contaminants. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126991	12.8	3
83	High-valent cobalt-oxo species triggers hydroxyl radical for collaborative environmental decontamination. <i>Applied Catalysis B: Environmental</i> , 2022 , 300, 120722	21.8	7
82	Biodegradation and potential effect of ranitidine during aerobic composting of human feces.. <i>Chemosphere</i> , 2022 , 296, 134062	8.4	0
81	Enhancing Brackish Water Desalination using Magnetic Flow-electrode Capacitive Deionization.. <i>Water Research</i> , 2022 , 216, 118290	12.5	1
80	Effect of anthraquinone-2,6-disulfonate (AQDS) on anaerobic digestion under ammonia stress: Triggering mediated interspecies electron transfer (MIET).. <i>Science of the Total Environment</i> , 2022 , 154158	19.2	0
79	Reduced cathodic scale and enhanced electrochemical precipitation of Ca and Mg by a novel fenced cathode structure: Formation of strong alkaline microenvironment and favorable crystallization. <i>Water Research</i> , 2021 , 209, 117893	12.5	0
78	Enhanced Oxidation of Organic Contaminants by Iron(II)-Activated Periodate: The Significance of High-Valent Iron-Oxo Species. <i>Environmental Science & Technology</i> , 2021 , 55, 7634-7642	10.3	46
77	Insight into electrosorption behavior of monovalent ions and their selectivity in capacitive deionization: An atomic level study by molecular dynamics simulation. <i>Chemical Engineering Journal</i> , 2021 , 415, 128920	14.7	7
76	Can flow-electrode capacitive deionization become a new in-situ soil remediation technology for heavy metal removal?. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123568	12.8	22
75	Cu(III) generation and air sparging extend catalytic effectiveness of Cu ₂ S/H ₂ O ₂ from neutral to acidic condition: performance and mechanism in comparison with CuS/H ₂ O ₂ . <i>Journal of Cleaner Production</i> , 2021 , 278, 123572	10.3	9
74	Selective Recovery of Phosphorus from Synthetic Urine Using Flow-Electrode Capacitive Deionization (FCDI)-Based Technology. <i>ACS ES&T Water</i> , 2021 , 1, 175-184		16
73	Remarkable phosphate recovery from wastewater by a novel Ca/Fe composite: Synergistic effects of crystal structure and abundant oxygen-vacancies. <i>Chemosphere</i> , 2021 , 266, 129102	8.4	12
72	Partial nitrification performance and microbial community evolution in the membrane bioreactor for saline stream treatment. <i>Bioresour Technol</i> , 2021 , 320, 124419	11	4
71	Scale-up desalination: Membrane-current collector assembly in flow-electrode capacitive deionization system. <i>Water Research</i> , 2021 , 190, 116782	12.5	12

70	Mechanistic insight into the generation of high-valent iron-oxo species via peroxymonosulfate activation: An experimental and density functional theory study. <i>Chemical Engineering Journal</i> , 2021 , 420, 130477	14.7	5
69	Membrane-Current Collector-Based Flow-Electrode Capacitive Deionization System: A Novel Stack Configuration for Scale-Up Desalination. <i>Environmental Science & Technology</i> , 2021 , 55, 13286-13296 ^{10.3}		0
68	Selective recovery of phosphorus and urea from fresh human urine using a liquid membrane chamber integrated flow-electrode electrochemical system. <i>Water Research</i> , 2021 , 202, 117423	12.5	7
67	Highly selective oxidation of organic contaminants in the Ru-activated peroxymonosulfate process: The dominance of RuO species. <i>Chemosphere</i> , 2021 , 285, 131544	8.4	1
66	Selective recovery of formic acid from wastewater using an ion-capture electrochemical system integrated with a liquid-membrane chamber. <i>Chemical Engineering Journal</i> , 2021 , 425, 131429	14.7	2
65	Non-selective degradation of organic pollutants via dioxygen activation induced by Fe(II)-tetrapolyphosphate complexes: Identification of reactive oxidant and kinetic modeling. <i>Chemical Engineering Journal</i> , 2020 , 398, 125603	14.7	14
64	Activation of peroxymonosulfate by Fe ₀ @Fe ₃ O ₄ core-shell nanowires for sulfate radical generation: Electron transfer and transformation products. <i>Separation and Purification Technology</i> , 2020 , 247, 116942	8.3	22
63	Sulfate radical-induced destruction of emerging contaminants using traces of cobalt ions as catalysts. <i>Chemosphere</i> , 2020 , 256, 127061	8.4	12
62	Enhancing the degradation of bisphenol A by dioxygen activation using bimetallic Cu/Fe@zeolite: Critical role of Cu(I) and superoxide radical. <i>Separation and Purification Technology</i> , 2020 , 253, 117550	8.3	6
61	Enhanced mineralization of oxalate by highly active and Stable Ce(III)-Doped g-CN catalyzed ozonation. <i>Chemosphere</i> , 2020 , 239, 124612	8.4	28
60	Enhancing the dioxygen activation for arsenic removal by Cu ₀ nano-shell-decorated nZVI: Synergistic effects and mechanisms. <i>Chemical Engineering Journal</i> , 2020 , 384, 123295	14.7	22
59	Activation of dissolved molecular oxygen by Cu(0) for bisphenol a degradation: Role of Cu(0) and formation of reactive oxygen species. <i>Chemosphere</i> , 2020 , 241, 125034	8.4	7
58	Nonradical degradation of microorganic pollutants by magnetic N-doped graphitic carbon: A complement to the unactivated peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020 , 392, 123724	14.7	14
57	Application of Fenton pre-oxidation, Ca-induced coagulation, and sludge reclamation for enhanced treatment of ultra-high concentration poly(vinyl alcohol) wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121866	12.8	9
56	Unraveling the Overlooked Involvement of High-Valent Cobalt-Oxo Species Generated from the Cobalt(II)-Activated Peroxymonosulfate Process. <i>Environmental Science & Technology</i> , 2020 , 54, 16231-16239	10.3	69
55	MOF-derived metal-free N-doped porous carbon mediated peroxydisulfate activation via radical and non-radical pathways: Role of graphitic N and C O. <i>Chemical Engineering Journal</i> , 2020 , 380, 122584	14.7	65
54	Spherical Cu ₂ O-Fe ₃ O ₄ @chitosan bifunctional catalyst for coupled Cr-organic complex oxidation and Cr(VI) capture-reduction. <i>Chemical Engineering Journal</i> , 2020 , 383, 123105	14.7	24
53	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. <i>Chemical Engineering Journal</i> , 2019 , 374, 904-913	14.7	45

52	Comparative performance of green rusts generated in Fe-electrocoagulation for Cd removal from high salinity wastewater: Mechanisms and optimization. <i>Journal of Environmental Management</i> , 2019 , 237, 495-503	7.9	9
51	Role of reactive oxygen species in As(III) oxidation by carbonate structural Fe(II): A surface-mediated pathway. <i>Chemical Engineering Journal</i> , 2019 , 368, 980-987	14.7	11
50	Enhanced mineralization of dimethyl phthalate by heterogeneous ozonation over nanostructured Cu-Fe-O surfaces: Synergistic effect and radical chain reactions. <i>Separation and Purification Technology</i> , 2019 , 209, 588-597	8.3	40
49	The role of structural elements and its oxidative products on the surface of ferrous sulfide in reducing the electron-withdrawing groups of tetracycline. <i>Chemical Engineering Journal</i> , 2019 , 378, 1221-1231	14.7	8
48	TiO ₂ and SiO ₂ Nanoparticles Combined with Surfactants Mitigate the Toxicity of Cd ²⁺ to Wheat Seedlings. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	5
47	Initial dissolved oxygen-adjusted electrochemical generation of sulfate green rust for cadmium removal using a closed-atmosphere Fe ⁰ electrocoagulation system. <i>Chemical Engineering Journal</i> , 2019 , 359, 1411-1418	14.7	14
46	Cu(II)-enhanced activation of molecular oxygen using Fe(II): Factors affecting the yield of oxidants. <i>Chemosphere</i> , 2019 , 221, 383-391	8.4	4
45	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. <i>Water Research</i> , 2019 , 149, 1-8	12.5	31
44	Highly efficient degradation of dimethyl phthalate from Cu(II) and dimethyl phthalate wastewater by EDTA enhanced ozonation: Performance, intermediates and mechanism. <i>Journal of Hazardous Materials</i> , 2019 , 366, 378-385	12.8	21
43	Activation of persulfate with metal-organic framework-derived nitrogen-doped porous Co@C nanoboxes for highly efficient p-Chloroaniline removal. <i>Chemical Engineering Journal</i> , 2019 , 358, 408-418	14.7	98
42	Enhanced As(III) Sequestration Using Sulfide-Modified Nano-Scale Zero-Valent Iron with a Characteristic Core-Shell Structure: Sulfidation and As Distribution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3039-3048	8.3	46
41	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3624-3631	8.3	47
40	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. <i>Chemical Engineering Journal</i> , 2018 , 336, 416-426	14.7	49
39	Facile synthesis of highly reactive and stable Fe-doped g-CN composites for peroxymonosulfate activation: A novel nonradical oxidation process. <i>Journal of Hazardous Materials</i> , 2018 , 354, 63-71	12.8	102
38	Mackinawite (FeS) activation of persulfate for the degradation of p-chloroaniline: Surface reaction mechanism and sulfur-mediated cycling of iron species. <i>Chemical Engineering Journal</i> , 2018 , 333, 657-664	14.7	127
37	Supported palladium nanoparticles as highly efficient catalysts for radical production: Support-dependent synergistic effects. <i>Chemosphere</i> , 2018 , 207, 27-32	8.4	3
36	Applicability study on the degradation of acetaminophen via an HO/PDS-based advanced oxidation process using pyrite. <i>Chemosphere</i> , 2018 , 212, 438-446	8.4	23
35	Oxidation of acetaminophen by Green rust coupled with Cu(II) via dioxygen activation: The role of various interlayer anions (CO ₃ ²⁻ , SO ₄ ²⁻ , Cl ⁻). <i>Chemical Engineering Journal</i> , 2018 , 350, 930-938	14.7	12

34	Continuous-flow ozonation over modified ceramsite: implications for the degradation of cation red x-GRL. <i>Water Science and Technology</i> , 2018 , 78, 2577-2585	2.2	
33	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfate-Iodide Metal-Free Oxidation: Role of Iodine Atoms. <i>Environmental Science & Technology</i> , 2017 , 51, 2312-2320	10.3	61
32	Immobilization of selenite from aqueous solution by structural ferrous hydroxide complexes. <i>RSC Advances</i> , 2017 , 7, 13398-13405	3.7	6
31	Degradation of contaminants by Cu-activated molecular oxygen in aqueous solutions: Evidence for cupryl species (Cu). <i>Journal of Hazardous Materials</i> , 2017 , 331, 81-87	12.8	59
30	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/AlO) catalyzed peroxymonosulfate. <i>Water Research</i> , 2017 , 120, 12-21	12.5	108
29	Ozonation of dimethyl phthalate catalyzed by highly active CuO-FeO nanoparticles prepared with zero-valent iron as the innovative precursor. <i>Environmental Pollution</i> , 2017 , 227, 73-82	9.3	28
28	Enhanced degradation of chloramphenicol at alkaline conditions by S(-II) assisted heterogeneous Fenton-like reactions using pyrite. <i>Chemosphere</i> , 2017 , 188, 557-566	8.4	62
27	A metal-free method of generating sulfate radicals through direct interaction of hydroxylamine and peroxymonosulfate: Mechanisms, kinetics, and implications. <i>Chemical Engineering Journal</i> , 2017 , 330, 906-913	14.7	50
26	Opposite effects of dissolved oxygen on the removal of As(III) and As(V) by carbonate structural Fe(II). <i>Scientific Reports</i> , 2017 , 7, 17015	4.9	17
25	Mineral transformation of structural Fe(II) hydroxides with O ₂ , Cu(II), Cr(VI) and NO ₂ for enhanced arsenite sequestration. <i>Chemical Engineering Journal</i> , 2017 , 311, 247-254	14.7	6
24	Enhanced mineralization of aqueous Reactive Black 5 by catalytic ozonation in the presence of modified GAC. <i>Desalination and Water Treatment</i> , 2016 , 57, 14997-15006		3
23	Sequestration of hexavalent chromium by Fe(II)/Fe(III) hydroxides: Structural Fe(II) reactivity and PO ₄ ³⁻ effect. <i>Chemical Engineering Journal</i> , 2016 , 283, 948-955	14.7	28
22	Advantages of aeration in arsenic removal and arsenite oxidation by structural Fe(II) hydroxides in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 506, 703-710	5.1	27
21	Aqueous nickel sequestration and release during structural Fe(II) hydroxide remediation: the roles of coprecipitation, reduction and substitution. <i>RSC Advances</i> , 2016 , 6, 85347-85354	3.7	1
20	Novel iron metal matrix composite reinforced by quartz sand for the effective dechlorination of aqueous 2-chlorophenol. <i>Chemosphere</i> , 2016 , 146, 308-14	8.4	12
19	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO ₂ Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. <i>Environmental Science & Technology</i> , 2016 , 50, 3119-27	10.3	395
18	Sequestration of chelated copper by structural Fe(II): Reductive decomplexation and transformation of Cu(II)-EDTA. <i>Journal of Hazardous Materials</i> , 2016 , 309, 116-25	12.8	24
17	Enhanced oxidation of chloramphenicol by GLDA-driven pyrite induced heterogeneous Fenton-like reactions at alkaline condition. <i>Chemical Engineering Journal</i> , 2016 , 294, 49-57	14.7	56

16	Magnetic pyrite cinder as an efficient heterogeneous ozonation catalyst and synergetic effect of deposited Ce. <i>Chemosphere</i> , 2016 , 155, 127-134	8.4	22
15	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, 5225-33	10.3	140
14	Red mud powders as low-cost and efficient catalysts for persulfate activation: Pathways and reusability of mineralizing sulfadiazine. <i>Separation and Purification Technology</i> , 2016 , 167, 136-145	8.3	48
13	Efficient degradation of sulfamethazine with CuCo ₂ O ₄ spinel nanocatalysts for peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2015 , 280, 514-524	14.7	185
12	Denitrification of nitrite by ferrous hydroxy complex: Effects on nitrous oxide and ammonium formation. <i>Chemical Engineering Journal</i> , 2015 , 279, 149-155	14.7	20
11	Ferric iron enhanced chloramphenicol oxidation in pyrite (FeS ₂) induced Fenton-like reactions. <i>Separation and Purification Technology</i> , 2015 , 154, 60-67	8.3	29
10	Effects of Cu ²⁺ , Ag ⁺ , and Pd ²⁺ on the reductive debromination of 2,5-dibromoaniline by the ferrous hydroxy complex. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 901-8	2.6	3
9	Pyrite-enhanced degradation of chloramphenicol by low concentrations of H ₂ O ₂ . <i>Water Science and Technology</i> , 2015 , 72, 180-6	2.2	3
8	Synthesis of ordered mesoporous iron manganese bimetal oxides for arsenic removal from aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2014 , 200, 235-244	5.3	74
7	Electrochemical reductive degradation of chlorobenzene using galvanically replaced Pd/Fe nanoscale particles. <i>Chemical Engineering Journal</i> , 2014 , 241, 376-383	14.7	21
6	Pyrite cinder as a cost-effective heterogeneous catalyst in heterogeneous Fenton reaction: decomposition of H ₂ O ₂ and degradation of Acid Red B. <i>Water Science and Technology</i> , 2014 , 70, 1548-54	2.2	2
5	Oxidation of Azo Dyes by H ₂ O ₂ in Presence of Natural Pyrite. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	26
4	Electrochemical study of nitrobenzene reduction on galvanically replaced nanoscale Fe/Au particles. <i>Journal of Hazardous Materials</i> , 2011 , 197, 424-9	12.8	28
3	Effect of struvite seed crystal on MAP crystallization. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 1394-1398	3.5	24
2	Reductive dechlorination of carbon tetrachloride by zero-valent iron and related iron corrosion. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 434-440	21.8	82
1	Electrochemical reductive dechlorination of carbon tetrachloride on nanostructured Pd thin films. <i>Electrochemistry Communications</i> , 2008 , 10, 1474-1477	5.1	18