

Changha Lee

List of Publications by Year in descending order

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142
papers

9,631
citations

28274

55
h-index

39675

94
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144
all docs

144
docs citations

144
times ranked

9409
citing authors

#	ARTICLE	IF	CITATIONS
1	Bactericidal Effect of Zero-Valent Iron Nanoparticles on Escherichia coli. Environmental Science & Technology, 2008, 42, 4927-4933.	10.0	667
2	Activation of persulfates by carbon nanotubes: Oxidation of organic compounds by nonradical mechanism. Chemical Engineering Journal, 2015, 266, 28-33.	12.7	556
3	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. Environmental Science & Technology, 2016, 50, 10134-10142.	10.0	546
4	Use of CaO as an activator for producing a price-competitive non-cement structural binder using ground granulated blast furnace slag. Cement and Concrete Research, 2013, 54, 208-214.	11.0	320
5	A Silica-Supported Iron Oxide Catalyst Capable of Activating Hydrogen Peroxide at Neutral pH Values. Environmental Science & Technology, 2009, 43, 8930-8935.	10.0	317
6	Activation of Peroxymonosulfate by Surface-Loaded Noble Metal Nanoparticles for Oxidative Degradation of Organic Compounds. Environmental Science & Technology, 2016, 50, 10187-10197.	10.0	262
7	Oxidation of N-Nitrosodimethylamine (NDMA) Precursors with Ozone and Chlorine Dioxide: Kinetics and Effect on NDMA Formation Potential. Environmental Science & Technology, 2007, 41, 2056-2063.	10.0	223
8	Disintegration of Waste Activated Sludge by Thermally-Activated Persulfates for Enhanced Dewaterability. Environmental Science & Technology, 2016, 50, 7106-7115.	10.0	223
9	Oxidative degradation of N-nitrosodimethylamine by conventional ozonation and the advanced oxidation process ozone/hydrogen peroxide. Water Research, 2007, 41, 581-590.	11.3	216
10	Fate of engineered nanoparticles: Implications in the environment. Coordination Chemistry Reviews, 2015, 287, 64-78.	18.8	171
11	Polyoxometalate-Enhanced Oxidation of Organic Compounds by Nanoparticulate Zero-Valent Iron and Ferrous Ion in the Presence of Oxygen. Environmental Science & Technology, 2008, 42, 4921-4926.	10.0	168
12	Activation of Oxygen and Hydrogen Peroxide by Copper(II) Coupled with Hydroxylamine for Oxidation of Organic Contaminants. Environmental Science & Technology, 2016, 50, 8231-8238.	10.0	166
13	Carbon nanotube-based membranes: Fabrication and application to desalination. Journal of Industrial and Engineering Chemistry, 2012, 18, 1551-1559.	5.8	165
14	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. Applied Catalysis B: Environmental, 2018, 237, 432-441.	20.2	161
15	pH-Dependent reactivity of oxidants formed by iron and copper-catalyzed decomposition of hydrogen peroxide. Chemosphere, 2013, 92, 652-658.	8.2	160
16	Enhanced inactivation of E. coli and MS-2 phage by silver ions combined with UV-A and visible light irradiation. Water Research, 2008, 42, 356-362.	11.3	155
17	Oxidizing Capacity of Periodate Activated with Iron-Based Bimetallic Nanoparticles. Environmental Science & Technology, 2014, 48, 8086-8093.	10.0	133
18	Inactivation of Escherichia coli by Nanoparticulate Zerovalent Iron and Ferrous Ion. Applied and Environmental Microbiology, 2010, 76, 7668-7670.	3.1	125

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19	Enhanced Formation of Oxidants from Bimetallic Nickel-iron Nanoparticles in the Presence of Oxygen. <i>Environmental Science & Technology</i> , 2008, 42, 8528-8533.	10.0	118
20	Degradation of diclofenac and carbamazepine by the copper(II)-catalyzed dark and photo-assisted Fenton-like systems. <i>Chemical Engineering Journal</i> , 2014, 245, 258-264.	12.7	118
21	Inactivation of MS2 Coliphage by Ferrous Ion and Zero-Valent Iron Nanoparticles. <i>Environmental Science & Technology</i> , 2011, 45, 6978-6984.	10.0	114
22	UV Photolytic Mechanism of N-Nitrosodimethylamine in Water: A Dual Pathways to Methylamine versus Dimethylamine. <i>Environmental Science & Technology</i> , 2005, 39, 2101-2106.	10.0	110
23	Photosensitized Oxidation of Emerging Organic Pollutants by Tetrakis C ₆₀ Aminofullerene-Derivatized Silica under Visible Light Irradiation. <i>Environmental Science & Technology</i> , 2011, 45, 10598-10604.	10.0	107
24	Activation of Periodate by Freezing for the Degradation of Aqueous Organic Pollutants. <i>Environmental Science & Technology</i> , 2018, 52, 5378-5385.	10.0	101
25	Synthesis of graphene-carbon sphere hybrid aerogel with silver nanoparticles and its catalytic and adsorption applications. <i>Chemical Engineering Journal</i> , 2014, 244, 160-167.	12.7	100
26	Oxidation of suspected N-nitrosodimethylamine (NDMA) precursors by ferrate (VI): Kinetics and effect on the NDMA formation potential of natural waters. <i>Water Research</i> , 2008, 42, 433-441.	11.3	98
27	A novel homogeneous Fenton-like system with Fe(III)-phosphotungstate for oxidation of organic compounds at neutral pH values. <i>Journal of Molecular Catalysis A</i> , 2009, 311, 1-6.	4.8	98
28	Visible-light-induced activation of periodate that mimics dye-sensitization of TiO ₂ : Simultaneous decolorization of dyes and production of oxidizing radicals. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 475-484.	20.2	97
29	Electrochemical oxidation of organics in sulfate solutions on boron-doped diamond electrode: Multiple pathways for sulfate radical generation. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 156-165.	20.2	91
30	Kinetics and mechanisms of DMSO (dimethylsulfoxide) degradation by UV/H ₂ O ₂ process. <i>Water Research</i> , 2004, 38, 2579-2588.	11.3	90
31	Application of photoactivated periodate to the decolorization of reactive dye: reaction parameters and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 165, 35-41.	3.9	89
32	Spontaneous Generation of H ₂ O ₂ and Hydroxyl Radical through O ₂ Reduction on Copper Phosphide under Ambient Aqueous Condition. <i>Environmental Science & Technology</i> , 2019, 53, 2918-2925.	10.0	88
33	UV Photolytic Mechanism of N-Nitrosodimethylamine in Water: Roles of Dissolved Oxygen and Solution pH. <i>Environmental Science & Technology</i> , 2005, 39, 9702-9709.	10.0	86
34	Chloride-Mediated Enhancement in Heat-Induced Activation of Peroxymonosulfate: New Reaction Pathways for Oxidizing Radical Production. <i>Environmental Science & Technology</i> , 2021, 55, 5382-5392.	10.0	86
35	Temperature dependence of hydroxyl radical formation in the hv/Fe ³⁺ /H ₂ O ₂ and Fe ³⁺ /H ₂ O ₂ systems. <i>Chemosphere</i> , 2004, 56, 923-934.	8.2	84
36	Microbial Inactivation by Cupric Ion in Combination with H ₂ O ₂ : Role of Reactive Oxidants. <i>Environmental Science & Technology</i> , 2013, 47, 13661-13667.	10.0	81

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37	Chloride-enhanced oxidation of organic contaminants by Cu(II)-catalyzed Fenton-like reaction at neutral pH. <i>Journal of Hazardous Materials</i> , 2018, 344, 1174-1180.	12.4	81
38	Effects of inorganic oxidants on kinetics and mechanisms of WO ₃ -mediated photocatalytic degradation. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 515-523.	20.2	79
39	Magnetic mesoporous materials for removal of environmental wastes. <i>Journal of Hazardous Materials</i> , 2011, 192, 1140-1147.	12.4	78
40	Synergistic effects of TiO ₂ photocatalysis in combination with Fenton-like reactions on oxidation of organic compounds at circumneutral pH. <i>Applied Catalysis B: Environmental</i> , 2012, 115-116, 219-224.	20.2	78
41	Enhanced production of reactive oxidants by Fenton-like reactions in the presence of carbon materials. <i>Chemical Engineering Journal</i> , 2015, 273, 502-508.	12.7	77
42	Magnetite/mesocellular carbon foam as a magnetically recoverable fenton catalyst for removal of phenol and arsenic. <i>Chemosphere</i> , 2012, 89, 1230-1237.	8.2	76
43	Role of Reactive Oxygen Species in <i>Escherichia coli</i> Inactivation by Cupric Ion. <i>Environmental Science & Technology</i> , 2012, 46, 11299-11304.	10.0	72
44	Selective phosphate removal using layered double hydroxide/reduced graphene oxide (LDH/rGO) composite electrode in capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 1-7.	9.4	68
45	Substrate-immobilized electrospun TiO ₂ nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. <i>Water Research</i> , 2015, 86, 25-34.	11.3	66
46	Inactivation of MS2 coliphage by Fenton's reagent. <i>Water Research</i> , 2010, 44, 2647-2653.	11.3	65
47	La-modified ZSM-5 zeolite beads for enhancement in removal and recovery of phosphate. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 37-44.	4.4	64
48	Novel activation of peroxymonosulfate by biochar derived from rice husk toward oxidation of organic contaminants in wastewater. <i>Journal of Water Process Engineering</i> , 2020, 33, 101037.	5.6	64
49	High temperature dependence of 2,4-dichlorophenoxyacetic acid degradation by Fe ³⁺ /H ₂ O ₂ system. <i>Chemosphere</i> , 2003, 51, 963-971.	8.2	63
50	Photocatalytic applications of paper-like poly(vinylidene fluoride)-titanium dioxide hybrids fabricated using a combination of electrospinning and electrospraying. <i>Journal of Hazardous Materials</i> , 2015, 285, 267-276.	12.4	59
51	Influence of various reaction parameters on 2,4-D removal in photo/ferrioxalate/H ₂ O ₂ process. <i>Chemosphere</i> , 2003, 51, 901-912.	8.2	57
52	Oxidant production from corrosion of nano- and microparticulate zero-valent iron in the presence of oxygen: A comparative study. <i>Journal of Hazardous Materials</i> , 2014, 265, 201-207.	12.4	57
53	Electrochromic titania nanotube arrays for the enhanced photocatalytic degradation of phenol and pharmaceutical compounds. <i>Chemical Engineering Journal</i> , 2014, 249, 285-292.	12.7	57
54	Enhanced Inactivation of <i>Escherichia coli</i> and MS2 Coliphage by Cupric Ion in the Presence of Hydroxylamine: Dual Microbicidal Effects. <i>Environmental Science & Technology</i> , 2015, 49, 14416-14423.	10.0	57

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55	Synthesis and characterization of metal-doped reduced graphene oxide composites, and their application in removal of Escherichia coli, arsenic and 4-nitrophenol. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 282-288.	5.8	57
56	Highly reusable TiO ₂ nanoparticle photocatalyst by direct immobilization on steel mesh via PVDF coating, electrospraying, and thermal fixation. <i>Chemical Engineering Journal</i> , 2016, 306, 344-351.	12.7	57
57	Kinetic enhancement in photocatalytic oxidation of organic compounds by WO ₃ in the presence of Fenton-like reagent. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 311-317.	20.2	56
58	Raspberry derived mesoporous carbon-tubules and fixed-bed adsorption of pharmaceutical drugs. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1126-1132.	5.8	56
59	Polyphosphate-enhanced production of reactive oxidants by nanoparticulate zero-valent iron and ferrous ion in the presence of oxygen: Yield and nature of oxidants. <i>Water Research</i> , 2015, 86, 66-73.	11.3	56
60	Adsorption of As(V) by boehmite and alumina of different morphologies prepared under hydrothermal conditions. <i>Chemosphere</i> , 2017, 169, 99-106.	8.2	53
61	Selective fluoride removal in capacitive deionization by reduced graphene oxide/hydroxyapatite composite electrode. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 396-402.	9.4	50
62	Ag-doped graphitic carbon nitride photocatalyst with remarkably enhanced photocatalytic activity towards antibiotic in hospital wastewater under solar light. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 597-605.	5.8	46
63	Activation of Hydrogen Peroxide by a Titanium Oxide-Supported Iron Catalyst: Evidence for Surface Fe(IV) and Its Selectivity. <i>Environmental Science & Technology</i> , 2020, 54, 15424-15432.	10.0	44
64	Nonradical activation of peroxymonosulfate by hematite for oxidation of organic compounds: A novel mechanism involving high-valent iron species. <i>Chemical Engineering Journal</i> , 2021, 426, 130743.	12.7	42
65	Oxidative treatment of waste activated sludge by different activated persulfate systems for enhancing sludge dewaterability. <i>Sustainable Environment Research</i> , 2016, 26, 177-183.	4.2	41
66	Accelerated redox reaction between chromate and phenolic pollutants during freezing. <i>Journal of Hazardous Materials</i> , 2017, 329, 330-338.	12.4	41
67	Visible light photoelectrocatalytic degradation of methyl orange using anodized nanoporous WO ₃ . <i>Electrochimica Acta</i> , 2014, 115, 140-145.	5.2	40
68	Oxidation of Microcystins by Permanganate: pH and Temperature-Dependent Kinetics, Effect of DOM Characteristics, and Oxidation Mechanism Revisited. <i>Environmental Science & Technology</i> , 2018, 52, 7054-7063.	10.0	39
69	Protocol for development of various plants leaves extract in single-pot synthesis of metal nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 134-142.	3.9	37
70	UV-A induced photochemical formation of N-nitrosodimethylamine (NDMA) in the presence of nitrite and dimethylamine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 128-134.	3.9	35
71	Determination of quantum yields for the photolysis of Fe(III)-hydroxo complexes in aqueous solution using a novel kinetic method. <i>Chemosphere</i> , 2004, 57, 1449-1458.	8.2	34
72	Oxidation of microcystin-LR by ferrous-tetrapolyphosphate in the presence of oxygen and hydrogen peroxide. <i>Water Research</i> , 2017, 114, 277-285.	11.3	34

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73	Combination of cupric ion with hydroxylamine and hydrogen peroxide for the control of bacterial biofilms on RO membranes. <i>Water Research</i> , 2017, 110, 83-90.	11.3	34
74	Persulfate enhanced photoelectrochemical oxidation of organic pollutants using self-doped TiO ₂ nanotube arrays: Effect of operating parameters and water matrix. <i>Water Research</i> , 2021, 191, 116803.	11.3	34
75	Oxidative degradation of dimethylsulfoxide by locally concentrated hydroxyl radicals in streamer corona discharge process. <i>Chemosphere</i> , 2006, 65, 1163-1170.	8.2	33
76	UV direct photolysis of 2,2'-azino-bis(3-ethylbenzothiazoline-6-sulfonate) (ABTS) in aqueous solution: Kinetics and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 197, 232-238.	3.9	33
77	Short Review of Multichannel Membrane Capacitive Deionization: Principle, Current Status, and Future Prospect. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 683.	2.5	33
78	Catalytic persulfate activation for oxidation of organic pollutants: A critical review on mechanisms and controversies. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107654.	6.7	32
79	Differential Microbicidal Effects of Bimetallic Iron-Copper Nanoparticles on <i>Escherichia coli</i> and MS2 Coliphage. <i>Environmental Science & Technology</i> , 2019, 53, 2679-2687.	10.0	31
80	Modeling of ozone decomposition, oxidant exposures, and the abatement of micropollutants during ozonation processes. <i>Water Research</i> , 2020, 169, 115230.	11.3	31
81	Oxidation of organic contaminants in water by iron-induced oxygen activation: A short review. <i>Environmental Engineering Research</i> , 2015, 20, 205-211.	2.5	31
82	Inactivation of MS2 bacteriophage by streamer corona discharge in water. <i>Chemosphere</i> , 2011, 82, 1135-1140.	8.2	30
83	Enhancement in Desalination Performance of Battery Electrodes via Improved Mass Transport Using a Multichannel Flow System. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36580-36588.	8.0	30
84	Distinct adsorption enhancement of bi-component metals (cobalt and nickel) by Fireweed-derived carbon compared to activated carbon: Incorporation of surface group distributions for increased efficiency. <i>Chemical Engineering Journal</i> , 2015, 281, 713-723.	12.7	29
85	Nickel-Nickel oxide nanocomposite as a magnetically separable persulfate activator for the nonradical oxidation of organic contaminants. <i>Journal of Hazardous Materials</i> , 2020, 388, 121767.	12.4	29
86	Performance analysis of the multi-channel membrane capacitive deionization with porous carbon electrode stacks. <i>Desalination</i> , 2020, 479, 114315.	8.2	29
87	Inactivation of bacterial planktonic cells and biofilms by Cu(II)-activated peroxymonosulfate in the presence of chloride ion. <i>Chemical Engineering Journal</i> , 2020, 380, 122468.	12.7	28
88	Visible light-photosensitized oxidation of organic pollutants using amorphous peroxy-titania. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 487-495.	20.2	27
89	Visible light-induced activation of peroxymonosulfate in the presence of ferric ions for the degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2020, 240, 116620.	7.9	27
90	Electrochemical Peroxodisulfate (PDS) Generation on a Self-Doped TiO ₂ Nanotube Array Electrode. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11465-11471.	3.7	23

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91	Prediction of Oxidant Exposures and Micropollutant Abatement during Ozonation Using a Machine Learning Method. <i>Environmental Science & Technology</i> , 2021, 55, 709-718.	10.0	21
92	Decolorization of reactive dye using a photo-ferrioxalate system with brick grain-supported iron oxide. <i>Journal of Hazardous Materials</i> , 2011, 188, 357-362.	12.4	20
93	Single-step green synthesis of imine-functionalized carbon spheres and their application in uranium removal from aqueous solution. <i>RSC Advances</i> , 2014, 4, 46114-46121.	3.6	20
94	Nitrite ion mitigates the formation of N-nitrosodimethylamine (NDMA) during chloramination of ranitidine. <i>Science of the Total Environment</i> , 2018, 633, 352-359.	8.0	19
95	Versatile Yolk-Shell Encapsulation: Catalytic, Photothermal, and Sensing Demonstration. <i>Small</i> , 2020, 16, e2002311.	10.0	19
96	Effect of Fe ³⁺ as an electron-transfer mediator on WO ₃ -induced activation of peroxymonosulfate under visible light. <i>Chemical Engineering Journal</i> , 2021, 411, 128529.	12.7	19
97	Degradation of aqueous organic pollutants using an Fe ₂ O ₃ /WO ₃ composite photocatalyst as a magnetically separable peroxymonosulfate activator. <i>Separation and Purification Technology</i> , 2021, 267, 118610.	7.9	19
98	Response to Comment on "Activation of Persulfate by Graphitized Nanodiamonds for Removal of Organic Compounds". <i>Environmental Science & Technology</i> , 2017, 51, 5353-5354.	10.0	18
99	Effect of Hydrophilicity of Activated Carbon Electrodes on Desalination Performance in Membrane Capacitive Deionization. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5055.	2.5	18
100	Nafion-coated Prussian blue electrodes to enhance the stability and efficiency of battery desalination system. <i>Desalination</i> , 2021, 500, 114778.	8.2	18
101	Occurrence of unknown reactive species in UV/H ₂ O ₂ system leading to false interpretation of hydroxyl radical probe reactions. <i>Water Research</i> , 2021, 201, 117338.	11.3	18
102	Ozonation of Microcystins: Kinetics and Toxicity Decrease. <i>Environmental Science & Technology</i> , 2019, 53, 6427-6435.	10.0	17
103	Freezing-enhanced non-radical oxidation of organic pollutants by peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020, 388, 124226.	12.7	17
104	Binder-free immobilization of TiO ₂ photocatalyst on steel mesh via electrospraying and hot-pressing and its application for organic micropollutant removal and disinfection. <i>Journal of Hazardous Materials</i> , 2018, 360, 62-70.	12.4	16
105	Efficient bicarbonate removal and recovery of ammonium bicarbonate as CO ₂ utilization using flow-electrode capacitive deionization. <i>Chemical Engineering Journal</i> , 2022, 431, 134233.	12.7	16
106	Comment on "Oxidation of Sulfoxides and Arsenic(III) in Corrosion of Nanoscale Zero Valent Iron by Oxygen: Evidence against Ferryl Ions (Fe(IV)) as Active Intermediates in Fenton Reaction". <i>Environmental Science & Technology</i> , 2011, 45, 3177-3178.	10.0	15
107	Reaction of aqueous iodide at high concentration with O ₃ and O ₃ /H ₂ O ₂ in the presence of natural organic matter: implications for drinking water treatment. <i>Environmental Chemistry Letters</i> , 2015, 13, 453-458.	16.2	15
108	Electrochemical ozone production in inert supporting electrolytes on a boron-doped diamond electrode with a solid polymer electrolyte electrolyzer. <i>Desalination and Water Treatment</i> , 2016, 57, 10152-10158.	1.0	15

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109	Control of the red tide dinoflagellate <i>Cochlodinium polykrikoides</i> by ozone in seawater. <i>Water Research</i> , 2017, 109, 237-244.	11.3	15
110	Novel Reuse Strategy in Flow-Electrode Capacitive Deionization with Switch Cycle Operation To Enhance Desalination Performance. <i>Environmental Science and Technology Letters</i> , 2019, 6, 739-744.	8.7	15
111	Synchronized methylene blue removal using Fenton-like reaction induced by phosphorous oxoanion and submerged plasma irradiation process. <i>Journal of Environmental Management</i> , 2018, 206, 77-84.	7.8	14
112	Practical scale evaluation of a photocatalytic air purifier equipped with a Titania-zeolite composite bead filter for VOC removal and viral inactivation. <i>Environmental Research</i> , 2022, 204, 112036.	7.5	14
113	Bicarbonate-enhanced generation of hydroxyl radical by visible light-induced photocatalysis of H ₂ O ₂ over WO ₃ : Alteration of electron transfer mechanism. <i>Chemical Engineering Journal</i> , 2022, 432, 134401.	12.7	14
114	Degradation of ranitidine and changes in N-nitrosodimethylamine formation potential by advanced oxidation processes: Role of oxidant speciation and water matrix. <i>Water Research</i> , 2021, 203, 117495.	11.3	13
115	Hand-ground fullerene-nanodiamond composite for photosensitized water treatment and photodynamic cancer therapy. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 101-109.	9.4	12
116	Synergistic effects between the S-TiO ₂ photocatalyst and the Fenton-like reagent: Enhanced contaminant oxidation under visible light illumination. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104598.	6.7	11
117	Fabrication of Ag-doped ZnO/PAN composite nanofibers by electrospinning: Photocatalytic and antiviral activities. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1632-1640.	2.7	11
118	Distinctive green recovery of silver species from modified cellulose: Mechanism and spectroscopic studies. <i>International Journal of Biological Macromolecules</i> , 2015, 76, 109-118.	7.5	10
119	Nanoparticulate zero-valent iron coupled with polyphosphate: the sequential redox treatment of organic compounds and its stability and bacterial toxicity. <i>Environmental Science: Nano</i> , 2017, 4, 396-405.	4.3	10
120	Inactivation of biofilms on RO membranes by copper ion in combination with norspermidine. <i>Desalination</i> , 2017, 424, 95-101.	8.2	10
121	Cupric ion in combination with hydrogen peroxide and hydroxylamine applied to inactivation of different microorganisms. <i>Journal of Hazardous Materials</i> , 2020, 400, 123305.	12.4	10
122	Ir _{0.11} Fe _{0.25} O _{0.64} as a highly efficient electrode for electrochlorination in dilute chloride solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 155-162.	5.8	9
123	Improvement in the desalination performance of membrane capacitive deionization with a bipolar electrode via an energy recovery process. <i>Chemical Engineering Journal</i> , 2022, 439, 135603.	12.7	9
124	Long-term and stable antimicrobial properties of immobilized Ni/TiO ₂ nanocomposites against <i>Escherichia coli</i> , <i>Legionella thermalis</i> , and MS2 bacteriophage. <i>Environmental Research</i> , 2021, 194, 110657.	7.5	8
125	Yolk-shell-type gold nanosphere-encapsulated mesoporous silica for catalytic oxidation of organic pollutants in the presence of persulfate. <i>Environmental Science: Nano</i> , 2022, 9, 2510-2520.	4.3	7
126	Reduction of chlorendic acid by zero-valent iron: Kinetics, products, and pathways. <i>Journal of Hazardous Materials</i> , 2020, 384, 121269.	12.4	6

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127	New method for electrochemical ion separation (EIONS) for chloride/nitrate separation using Ag/AgCl electrodes with a cation exchange membrane. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106876.	6.7	6
128	Enhanced Oxidation of Phenol by Copper-catalyzed Fenton-like Reaction in the Presence of Bicarbonate. <i>Journal of Advanced Oxidation Technologies</i> , 2018, 21, 54-66.	0.5	5
129	Visible-light photocatalysis over MIL-53(Fe) for VOC removal and viral inactivation in air. <i>Environmental Engineering Research</i> , 2022, 27, 210209-0.	2.5	5
130	High chlorine evolution performance of electrochemically reduced TiO ₂ nanotube array coated with a thin RuO ₂ layer by the self-synthetic method. <i>RSC Advances</i> , 2021, 11, 12107-12116.	3.6	4
131	Inactivation of Escherichia coli and MS2 coliphage via singlet oxygen generated by homogeneous photosensitization. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1785-1790.	2.7	3
132	Response to Comment on "Polyoxometalate-Enhanced Oxidation of Organic Compounds by Nanoparticulate Zero-Valent Iron and Ferrous Ion in the Presence of Oxygen" <i>Environmental Science & Technology</i> , 2008, 42, 8169-8169.	10.0	2
133	Effects of advanced treatments using granular activated carbon adsorption with ozonation and ultrafiltration on chlorine decay. <i>Desalination and Water Treatment</i> , 2014, 52, 976-984.	1.0	2
134	Accelerated oxidation of microcystin-LR by Fe(II)-tetrapolyphosphate/oxygen in the presence of magnesium and calcium ions. <i>Water Research</i> , 2020, 184, 116172.	11.3	2
135	Science Walden: Exploring the Convergence of Environmental Technologies with Design and Art. <i>Sustainability</i> , 2017, 9, 35.	3.2	1
136	Comment on "Investigation of the Iron-Peroxo Complex in the Fenton Reaction: Kinetic Indication, Decay Kinetics, and Hydroxyl Radical Yields" <i>Environmental Science & Technology</i> , 2018, 52, 4481-4482.	10.0	1
137	Comment on "Visible-light-driven, hierarchically heterostructured, and flexible silver/bismuth oxyiodide/titania nanofibrous membranes for highly efficient water disinfection" by Song et al. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 513-514.	9.4	1
138	The Photo-Fenton System. <i>Springer Handbooks</i> , 2022, , 1719-1734.	0.6	1
139	Reply to comment on "Combination of cupric ion with hydroxylamine and hydrogen peroxide for the control of bacterial biofilms on RO membranes by Hye-Jin Lee, Hyung-Eun Kim, Changha Lee [<i>Water Research</i> 110, 2017, 83-90]" <i>Water Research</i> , 2017, 118, 291-292.	11.3	0
140	Use of High-Valent Metal Species Produced by the Fenton (-like) Reactions in Water Treatment. <i>Advances in Science, Technology and Innovation</i> , 2020, , 89-89.	0.4	0
141	Effects of chloride and other anions on electrochemical chlorine evolution over self-doped TiO ₂ nanotube array. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 756-762.	2.7	0
142	Practical selection of microorganisms indicating the stability of pathogenic removal in water treatment plants. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 373-380.	2.1	0