

Ruijuan Qu

List of Publications by Year in descending order

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100
papers

5,070
citations

71102

41
h-index

95266

68
g-index

101
all docs

101
docs citations

101
times ranked

4038
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic degradation of diethyl phthalate in aqueous solution by persulfate activated with nano-scaled magnetic CuFe ₂ O ₄ /MWCNTs. <i>Chemical Engineering Journal</i> , 2016, 301, 1-11.	12.7	286
2	Degradation of flumequine in aqueous solution by persulfate activated with common methods and polyhydroquinone-coated magnetite/multi-walled carbon nanotubes catalysts. <i>Water Research</i> , 2015, 85, 1-10.	11.3	225
3	Degradation of fluoroquinolone antibiotics by ferrate(VI): Effects of water constituents and oxidized products. <i>Water Research</i> , 2016, 103, 48-57.	11.3	206
4	Hydroxyl Radical Based Photocatalytic Degradation of Halogenated Organic Contaminants and Paraffin on Silica Gel. <i>Environmental Science & Technology</i> , 2018, 52, 7220-7229.	10.0	171
5	Oxidative degradation of triclosan by potassium permanganate: Kinetics, degradation products, reaction mechanism, and toxicity evaluation. <i>Water Research</i> , 2016, 103, 215-223.	11.3	165
6	Degradation of aqueous 2,4,4-trihydroxybenzophenone by persulfate activated with nitrogen doped carbonaceous materials and the formation of dimer products. <i>Water Research</i> , 2018, 143, 176-187.	11.3	165
7	Degradation of the UV-filter benzophenone-3 in aqueous solution using persulfate activated by heat, metal ions and light. <i>Chemosphere</i> , 2018, 196, 95-104.	8.2	136
8	Ozonation of indigo enhanced by carboxylated carbon nanotubes: Performance optimization, degradation products, reaction mechanism and toxicity evaluation. <i>Water Research</i> , 2015, 68, 316-327.	11.3	130
9	Metal accumulation and oxidative stress biomarkers in liver of freshwater fish <i>Carassius auratus</i> following in vivo exposure to waterborne zinc under different pH values. <i>Aquatic Toxicology</i> , 2014, 150, 9-16.	4.0	113
10	Catalytic degradation of 2-phenylbenzimidazole-5-sulfonic acid by peroxymonosulfate activated with nitrogen and sulfur co-doped CNTs-COOH loaded CuFe ₂ O ₄ . <i>Chemical Engineering Journal</i> , 2017, 307, 95-104.	12.7	109
11	Effective degradation of fenitrothion by zero-valent iron powder (Fe ⁰) activated persulfate in aqueous solution: Kinetic study and product identification. <i>Chemical Engineering Journal</i> , 2019, 358, 1479-1488.	12.7	108
12	Degradation of UV-filter benzophenone-3 in aqueous solution using persulfate catalyzed by cobalt ferrite. <i>Chemical Engineering Journal</i> , 2017, 326, 1197-1209.	12.7	106
13	Mixed oxidation of aqueous nonylphenol and triclosan by thermally activated persulfate: Reaction kinetics and formation of co-oligomerization products. <i>Chemical Engineering Journal</i> , 2021, 403, 126396.	12.7	102
14	Investigation on Intramolecular Hydrogen Bond and Some Thermodynamic Properties of Polyhydroxylated Anthraquinones. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2442-2455.	1.9	98
15	Solid surface-mediated photochemical transformation of decabromodiphenyl ether (BDE-209) in aqueous solution. <i>Water Research</i> , 2017, 125, 114-122.	11.3	92
16	Oxidative Degradation of Decabromodiphenyl Ether (BDE 209) by Potassium Permanganate: Reaction Pathways, Kinetics, and Mechanisms Assisted by Density Functional Theory Calculations. <i>Environmental Science & Technology</i> , 2015, 49, 4209-4217.	10.0	90
17	Oxidation of Tris (2-chloroethyl) phosphate in aqueous solution by UV-activated peroxymonosulfate: Kinetics, water matrix effects, degradation products and reaction pathways. <i>Chemosphere</i> , 2017, 185, 833-843.	8.2	88
18	Degradation of sulfadimethoxine in phosphate buffer solution by UV alone, UV/PMS and UV/H ₂ O ₂ : Kinetics, degradation products, and reaction pathways. <i>Chemical Engineering Journal</i> , 2020, 398, 125357.	12.7	88

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19	Mechanistic insights into the reactivity of Ferrate(VI) with phenolic compounds and the formation of coupling products. <i>Water Research</i> , 2019, 158, 338-349.	11.3	82
20	Ferrate(VI) oxidation of polychlorinated diphenyl sulfides: Kinetics, degradation, and oxidized products. <i>Water Research</i> , 2018, 143, 1-9.	11.3	81
21	Comparative antioxidant status in freshwater fish <i>Carassius auratus</i> exposed to six current-use brominated flame retardants: A combined experimental and theoretical study. <i>Aquatic Toxicology</i> , 2013, 140-141, 314-323.	4.0	78
22	Experimental and theoretical insights into the photochemical decomposition of environmentally persistent perfluorocarboxylic acids. <i>Water Research</i> , 2016, 104, 34-43.	11.3	78
23	Metal accumulation and antioxidant defenses in the freshwater fish <i>Carassius auratus</i> in response to single and combined exposure to cadmium and hydroxylated multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2014, 275, 89-98.	12.4	77
24	Characterization of the thermolysis products of Nafion membrane: A potential source of perfluorinated compounds in the environment. <i>Scientific Reports</i> , 2015, 5, 9859.	3.3	77
25	Effective degradation of 2,4-dihydroxybenzophenone by zero-valent iron powder (Fe ⁰)-activated persulfate in aqueous solution: Kinetic study, product identification and theoretical calculations. <i>Science of the Total Environment</i> , 2021, 771, 144743.	8.0	72
26	Fe-Activated Peroxymonosulfate Enhances the Degradation of Dibutyl Phthalate on Ground Quartz Sand. <i>Environmental Science & Technology</i> , 2020, 54, 9052-9061.	10.0	71
27	Enhanced Removal of Chlorophene and 17 β -estradiol by Mn(III) in a Mixture Solution with Humic Acid: Investigation of Reaction Kinetics and Formation of Co-oligomerization Products. <i>Environmental Science & Technology</i> , 2018, 52, 13222-13230.	10.0	63
28	Photodegradation of Polyfluorinated Dibenzo- <i>p</i> -Dioxins in Organic Solvents: Experimental and Theoretical Studies. <i>Environmental Science & Technology</i> , 2016, 50, 8128-8134.	10.0	62
29	Degradation kinetics and transformation products of chlorophene by aqueous permanganate. <i>Water Research</i> , 2018, 138, 293-300.	11.3	62
30	Products distribution and contribution of (de)chlorination, hydroxylation and coupling reactions to 2,4-dichlorophenol removal in seven oxidation systems. <i>Water Research</i> , 2021, 194, 116916.	11.3	60
31	Oxidation of flumequine in aqueous solution by UV-activated peroxydisulfate: Kinetics, water matrix effects, degradation products and reaction pathways. <i>Chemosphere</i> , 2019, 237, 124484.	8.2	58
32	Effect of different carbon nanotubes on cadmium toxicity to <i>Daphnia magna</i> : The role of catalyst impurities and adsorption capacity. <i>Environmental Pollution</i> , 2016, 208, 732-738.	7.5	57
33	Fe(VI)-Mediated Single-Electron Coupling Processes for the Removal of Chlorophene: A Combined Experimental and Computational Study. <i>Environmental Science & Technology</i> , 2018, 52, 12592-12601.	10.0	53
34	Mechanism insights into the oxidative degradation of decabromodiphenyl ethane by potassium permanganate in acidic conditions. <i>Chemical Engineering Journal</i> , 2018, 332, 267-276.	12.7	50
35	Ferrate(VI) oxidation of bisphenol A—Kinetics, removal performance, and dihydroxylation mechanism. <i>Water Research</i> , 2022, 210, 118025.	11.3	50
36	Rapid Removal of Tetrabromobisphenol A by Ozonation in Water: Oxidation Products, Reaction Pathways and Toxicity Assessment. <i>PLoS ONE</i> , 2015, 10, e0139580.	2.5	49

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37	Kinetics and mechanism of the oxidative degradation of parathion by Ferrate(VI). <i>Chemical Engineering Journal</i> , 2019, 365, 142-152.	12.7	49
38	Degradation of pentachlorophenol in peroxymonosulfate/heat system: Kinetics, mechanism, and theoretical calculations. <i>Chemical Engineering Journal</i> , 2022, 434, 134736.	12.7	49
39	Visible light and fulvic acid assisted generation of Mn(III) to oxidize bisphenol A: The effect of tetrabromobisphenol A. <i>Water Research</i> , 2020, 169, 115273.	11.3	42
40	Effects of common inorganic anions on the ozonation of polychlorinated diphenyl sulfides on silica gel: Kinetics, mechanisms, and theoretical calculations. <i>Water Research</i> , 2020, 186, 116358.	11.3	42
41	Phototransformation of estrogens mediated by Mn(III), not by reactive oxygen species, in the presence of humic acids. <i>Chemosphere</i> , 2018, 201, 224-233.	8.2	41
42	Kinetics and reaction pathways for the transformation of 4-tert-butylphenol by ferrate(VI). <i>Journal of Hazardous Materials</i> , 2021, 401, 123405.	12.4	41
43	Evaluation of single and joint toxicity of perfluorooctane sulfonate and zinc to <i>Limnodrilus hoffmeisteri</i> : Acute toxicity, bioaccumulation and oxidative stress. <i>Journal of Hazardous Materials</i> , 2016, 301, 342-349.	12.4	40
44	Degradation of octafluorodibenzo-p-dioxin by UV/Fe(II)/potassium monopersulfate system: Kinetics, influence of coexisting chemicals, degradation products and pathways. <i>Chemical Engineering Journal</i> , 2017, 319, 98-107.	12.7	40
45	Oxidation of benzophenone-3 in aqueous solution by potassium permanganate: kinetics, degradation products, reaction pathways, and toxicity assessment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 31301-31311.	5.3	39
46	Oxidative stress biomarkers in freshwater fish <i>Carassius auratus</i> exposed to decabromodiphenyl ether and ethane, or their mixture. <i>Ecotoxicology</i> , 2013, 22, 1101-1110.	2.4	37
47	Occurrence of Polychlorinated Diphenyl Sulfides (PCDPSs) in Surface Sediments and Surface Water from the Nanjing Section of the Yangtze River. <i>Environmental Science & Technology</i> , 2014, 48, 11429-11436.	10.0	37
48	Thermal- and photo-induced degradation of perfluorinated carboxylic acids: Kinetics and mechanism. <i>Water Research</i> , 2017, 126, 12-18.	11.3	37
49	Development of a model to predict the effect of water chemistry on the acute toxicity of cadmium to <i>Photobacterium phosphoreum</i> . <i>Journal of Hazardous Materials</i> , 2013, 262, 288-296.	12.4	35
50	A comparative study on antioxidant status combined with integrated biomarker response in <i>Carassius auratus</i> fish exposed to nine phthalates. <i>Environmental Toxicology</i> , 2015, 30, 1125-1134.	4.0	35
51	Kinetics and mechanism insights into the photodegradation of hydroperfluorocarboxylic acids in aqueous solution. <i>Chemical Engineering Journal</i> , 2018, 348, 644-652.	12.7	35
52	Removal of 4-chlorophenol, bisphenol A and nonylphenol mixtures by aqueous chlorination and formation of coupling products. <i>Chemical Engineering Journal</i> , 2020, 402, 126140.	12.7	35
53	New Findings of Ferrate(VI) Oxidation Mechanism from Its Degradation of Alkene Imidazole Ionic Liquids. <i>Environmental Science & Technology</i> , 2021, 55, 11733-11744.	10.0	34
54	Hepatic oxidative stress and catalyst metals accumulation in goldfish exposed to carbon nanotubes under different pH levels. <i>Aquatic Toxicology</i> , 2015, 160, 142-150.	4.0	32

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55	The laccase-like reactivity of manganese oxide nanomaterials for pollutant conversion: rate analysis and cyclic voltammetry. <i>Scientific Reports</i> , 2017, 7, 7756.	3.3	31
56	The pH-dependent toxicity of triclosan to five aquatic organisms (<i>Daphnia magna</i> , <i>Photobacterium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 and <i>Pollution Research</i> , 2018, 25, 9636-9646.	5.3	31
57	Oxidative Oligomerization of Phenolic Endocrine Disrupting Chemicals Mediated by Mn(III)-L Complexes and the Role of Phenoxy Radicals in the Enhanced Removal: Experimental and Theoretical Studies. <i>Environmental Science & Technology</i> , 2020, 54, 1573-1582.	10.0	31
58	Subacute oral toxicity of BDE-15, CDE-15, and HODE-15 in ICR male mice: assessing effects on hepatic oxidative stress and metals status and ascertaining the protective role of vitamin E. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1924-1935.	5.3	29
59	The toxic effect and bioaccumulation in aquatic oligochaete <i>Limnodrilus hoffmeisteri</i> after combined exposure to cadmium and perfluorooctane sulfonate at different pH values. <i>Chemosphere</i> , 2016, 152, 496-502.	8.2	29
60	Efficient photocatalytic degradation of PFOA in N-doped In ₂ O ₃ /simulated sunlight irradiation system and its mechanism. <i>Chemical Engineering Journal</i> , 2022, 435, 134627.	12.7	28
61	Photodegradation of polychlorinated diphenyl sulfides mediated by reactive oxygen species on silica gel. <i>Chemical Engineering Journal</i> , 2019, 359, 1056-1064.	12.7	27
62	Transformation of bromophenols by aqueous chlorination and exploration of main reaction mechanisms. <i>Chemosphere</i> , 2021, 265, 129112.	8.2	26
63	Responses of antioxidant defense system to polyfluorinated dibenzo-p-dioxins (PFDDs) exposure in liver of freshwater fish <i>Carassius auratus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2016, 126, 170-176.	6.0	25
64	Photochemical transformation of decachlorobiphenyl (PCB-209) on the surface of microplastics in aqueous solution. <i>Chemical Engineering Journal</i> , 2021, 420, 129813.	12.7	25
65	Biochemical biomarkers in liver and gill tissues of freshwater fish <i>Carassius auratus</i> following <i>in vivo</i> exposure to hexabromobenzene. <i>Environmental Toxicology</i> , 2014, 29, 1460-1470.	4.0	24
66	Impact of carbon nanotubes on the toxicity of inorganic arsenic [AS(III) and AS(V)] to <i>Daphnia magna</i> : The role of certain arsenic species. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1852-1859.	4.3	24
67	The photodegradation of 1,3,6,8-tetrabromocarbazole in n-hexane and in solid-mediated aqueous system: Kinetics and transformation mechanisms. <i>Chemical Engineering Journal</i> , 2019, 375, 121986.	12.7	24
68	Synthesis and QSPR study on environment-related properties of polychlorinated diphenyl sulfides (PCDPSs). <i>Chemosphere</i> , 2012, 88, 844-854.	8.2	23
69	Toxicity and bioaccumulation of copper in <i>Limnodrilus hoffmeisteri</i> under different pH values: Impacts of perfluorooctane sulfonate. <i>Journal of Hazardous Materials</i> , 2016, 305, 219-228.	12.4	22
70	Experimental and theoretical study on the degradation of Benzophenone-1 by Ferrate(VI): New insights into the oxidation mechanism. <i>Journal of Hazardous Materials</i> , 2022, 425, 127877.	12.4	21
71	Effect of water quality on mercury toxicity to <i>Photobacterium phosphoreum</i> : Model development and its application in natural waters. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 231-238.	6.0	20
72	Activation of Avian Aryl Hydrocarbon Receptor and Inter-species Sensitivity Variations by Polychlorinated Diphenylsulfides. <i>Environmental Science & Technology</i> , 2014, 48, 10948-10956.	10.0	20

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73	Photochemical formation of hydroxylated polychlorinated biphenyls (OH-PCBs) from decachlorobiphenyl (PCB-209) on solids/air interface. <i>Journal of Hazardous Materials</i> , 2019, 378, 120758.	12.4	20
74	Removal of the UV Filter Benzophenone-2 in Aqueous Solution by Ozonation: Kinetics, Intermediates, Pathways and Toxicity. <i>Ozone: Science and Engineering</i> , 2018, 40, 122-132.	2.5	18
75	Alumina-mediated photocatalytic degradation of hexachlorobenzene in aqueous system: Kinetics and mechanism. <i>Chemosphere</i> , 2020, 257, 127256.	8.2	18
76	Photodegradation of polychlorinated diphenyl sulfides (PCDPSs) under simulated solar light irradiation: Kinetics, mechanism, and density functional theory calculations. <i>Journal of Hazardous Materials</i> , 2020, 398, 122876.	12.4	17
77	Enhanced oxidative degradation of decabromodiphenyl ether in soil by coupling Fenton-persulfate processes: Insights into degradation products and reaction mechanisms. <i>Science of the Total Environment</i> , 2020, 737, 139777.	8.0	16
78	Preparation of nitrogen doped silica photocatalyst for enhanced photodegradation of polychlorinated biphenyls (PCB-209). <i>Chemical Engineering Journal</i> , 2021, 425, 131682.	12.7	16
79	Kinetics and mechanism analysis for the photodegradation of PFOA on different solid particles. <i>Chemical Engineering Journal</i> , 2020, 383, 123115.	12.7	15
80	Experimental and QSPR study of sorption properties of polychlorinated diphenyl sulfides (PCDPSs) in Yangtze River plain soil. <i>Geoderma</i> , 2013, 193-194, 140-148.	5.1	13
81	Ferrate (VI)-mediated transformation of diethyl phthalate (DEP) in soil: Kinetics, degradation mechanisms and theoretical calculation. <i>Environmental Pollution</i> , 2021, 290, 118053.	7.5	13
82	Photodegradation of 17 β -estradiol on silica gel and natural soil by UV treatment. <i>Environmental Pollution</i> , 2018, 242, 1236-1244.	7.5	11
83	Influence of anions on ozonation of bisphenol AF: Kinetics, reaction pathways, and toxicity assessment. <i>Chemosphere</i> , 2022, 286, 131864.	8.2	10
84	Photochemical transformation of hexachlorobenzene (HCB) in solid-water system: Kinetics, mechanism and toxicity evaluation. <i>Chemosphere</i> , 2022, 295, 133907.	8.2	10
85	KMnO ₄ -mediated reactions for hexachlorophene in aqueous solutions: Direct oxidation, self-coupling, and cross-coupling. <i>Chemosphere</i> , 2020, 259, 127422.	8.2	8
86	Experimental and theoretical study on IR and NMR spectra of several tetrachlorinated diphenyl sulfides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 261-269.	3.9	7
87	Experimental investigation on the soil sorption properties and hydrophobicity of polymethoxylated, polyhydroxylated diphenyl ethers and methoxylated-, hydroxylated-polychlorinated diphenyl ethers. <i>Chemosphere</i> , 2015, 134, 84-90.	8.2	7
88	Toxicity of Arsenic to <i>Photobacterium phosphoreum</i> , <i>Daphnia magna</i> , and <i>Danio rerio</i> at Different pH Levels. <i>Clean - Soil, Air, Water</i> , 2016, 44, 72-77.	1.1	7
89	Photodegradation of decabromodiphenyl ethane (DBDPE) adsorbed on silica gel in aqueous solution: Kinetics, products, and theoretical calculations. <i>Chemical Engineering Journal</i> , 2019, 375, 121918.	12.7	6
90	The effect of hydroxyl groups on the stability and thermodynamic properties of polyhydroxylated xanthenes as calculated by density functional theory. <i>Thermochimica Acta</i> , 2012, 527, 99-111.	2.7	5

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91	Formation of hydroxylated derivatives and coupling products from the photochemical transformation of polyfluorinated dibenzo-p-dioxins (PFDDs) on silica surfaces. <i>Chemosphere</i> , 2019, 231, 72-81.	8.2	5
92	Formation of perfluorocarboxylic acids from photodegradation of tetrahydroperfluorocarboxylic acids in water. <i>Science of the Total Environment</i> , 2019, 655, 598-606.	8.0	5
93	Synthesis and physicochemical properties of polyhydroxylated diphenyl ethers. <i>Thermochimica Acta</i> , 2013, 568, 1-12.	2.7	3
94	Effects of in vivo exposure to polyfluorinated dibenzo-p-dioxins on organo-somatic indices and ethoxyresorufin-O-deethylase activity in mice (<i>Mus musculus</i>). <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 150-153.	1.7	3
95	The OH-initiated atmospheric chemical reactions of polyfluorinated dibenzofurans and polychlorinated dibenzofurans: A comparative theoretical study. <i>Chemosphere</i> , 2017, 168, 10-17.	8.2	3
96	Transformation of bisphenol AF by chlorination: kinetic study and product identification. <i>Environmental Science and Pollution Research</i> , 2021, 28, 62519-62529.	5.3	3
97	Hepatic Transcriptome Responses in Mice (<i>Mus musculus</i>) Exposed to the Nafion Membrane and Its Combustion Products. <i>PLoS ONE</i> , 2015, 10, e0128591.	2.5	3
98	The environmental fate of biomass associated polybrominated diphenyl ethers. <i>Chemosphere</i> , 2022, 299, 134397.	8.2	3
99	A Comprehensive Study on Infrared Spectra of 2-Hydroxyxanthone. <i>Spectroscopy Letters</i> , 2012, 45, 240-245.	1.0	2
100	Experimental and quantum chemical study on the transformation behavior of bisphenol S by radical-driven persulfate oxidation. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 116-126.	2.4	2