

Junhe Lu

List of Publications by Year in descending order

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papers

5,418
citations

87888

38
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85541

71
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100
all docs

100
docs citations

100
times ranked

3902
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat-activated persulfate oxidation of atrazine: Implications for remediation of groundwater contaminated by herbicides. <i>Chemical Engineering Journal</i> , 2015, 263, 45-54.	12.7	438
2	Kinetic and mechanistic investigations of the degradation of sulfamethazine in heat-activated persulfate oxidation process. <i>Journal of Hazardous Materials</i> , 2015, 300, 39-47.	12.4	354
3	Thermo activated persulfate oxidation of antibiotic sulfamethoxazole and structurally related compounds. <i>Water Research</i> , 2015, 87, 1-9.	11.3	344
4	New insights into atrazine degradation by cobalt catalyzed peroxymonosulfate oxidation: Kinetics, reaction products and transformation mechanisms. <i>Journal of Hazardous Materials</i> , 2015, 285, 491-500.	12.4	307
5	Thermo-activated persulfate oxidation system for tetracycline antibiotics degradation in aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 298, 225-233.	12.7	269
6	Bicarbonate-activated persulfate oxidation of acetaminophen. <i>Water Research</i> , 2017, 116, 324-331.	11.3	169
7	Degradation of atrazine in heterogeneous Co ₃ O ₄ activated peroxymonosulfate oxidation process: Kinetics, mechanisms, and reaction pathways. <i>Chemical Engineering Journal</i> , 2017, 330, 831-839.	12.7	147
8	Simultaneous removal of bisphenol A and phosphate in zero-valent iron activated persulfate oxidation process. <i>Chemical Engineering Journal</i> , 2016, 303, 458-466.	12.7	135
9	The role of nitrite in sulfate radical-based degradation of phenolic compounds: An unexpected nitration process relevant to groundwater remediation by in-situ chemical oxidation (ISCO). <i>Water Research</i> , 2017, 123, 249-257.	11.3	130
10	Non-activated peroxymonosulfate oxidation of sulfonamide antibiotics in water: Kinetics, mechanisms, and implications for water treatment. <i>Water Research</i> , 2018, 147, 82-90.	11.3	125
11	Cobalt catalyzed peroxymonosulfate oxidation of tetrabromobisphenol A: Kinetics, reaction pathways, and formation of brominated by-products. <i>Journal of Hazardous Materials</i> , 2016, 313, 229-237.	12.4	122
12	Degradation of trimethoprim by thermo-activated persulfate oxidation: Reaction kinetics and transformation mechanisms. <i>Chemical Engineering Journal</i> , 2016, 286, 16-24.	12.7	122
13	Formation of brominated disinfection by-products and bromate in cobalt catalyzed peroxymonosulfate oxidation of phenol. <i>Water Research</i> , 2015, 84, 1-7.	11.3	112
14	Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: I. Reaction Rates and Pathways. <i>Environmental Science & Technology</i> , 2009, 43, 7062-7067.	10.0	109
15	Transformation of bromide in thermo activated persulfate oxidation processes. <i>Water Research</i> , 2015, 78, 1-8.	11.3	106
16	Sulfate radical-based oxidation of antibiotics sulfamethazine, sulfapyridine, sulfadiazine, sulfadimethoxine, and sulfachloropyridazine: Formation of SO ₂ extrusion products and effects of natural organic matter. <i>Science of the Total Environment</i> , 2017, 593-594, 704-712.	8.0	104
17	Enhancing the Fenton-like Catalytic Activity of nFe ₂ O ₃ by MIL-53(Cu) Support: A Mechanistic Investigation. <i>Environmental Science & Technology</i> , 2020, 54, 5258-5267.	10.0	103
18	Rethinking sulfate radical-based oxidation of nitrophenols: Formation of toxic polynitrophenols, nitrated biphenyls and diphenyl ethers. <i>Journal of Hazardous Materials</i> , 2019, 361, 152-161.	12.4	83

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19	Effects of chloride on electrochemical degradation of perfluorooctanesulfonate by Magn ⁺ Li phase Ti ₄ O ₇ and boron doped diamond anodes. <i>Water Research</i> , 2020, 170, 115254.	11.3	83
20	Photodegradation of sulfasalazine and its human metabolites in water by UV and UV/peroxydisulfate processes. <i>Water Research</i> , 2018, 133, 299-309.	11.3	77
21	Ligninase-Mediated Removal of Natural and Synthetic Estrogens from Water: II. Reactions of 17 β -Estradiol. <i>Environmental Science & Technology</i> , 2010, 44, 2599-2604.	10.0	69
22	Natural Organic Matter Exposed to Sulfate Radicals Increases Its Potential to Form Halogenated Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2016, 50, 5060-5067.	10.0	67
23	Formation of Nitrophenolic Byproducts during Heat-Activated Peroxydisulfate Oxidation in the Presence of Natural Organic Matter and Nitrite. <i>Environmental Science & Technology</i> , 2019, 53, 4255-4264.	10.0	67
24	Degradation of sulfamethoxazole by Co ₃ O ₄ -palygorskite composites activated peroxymonosulfate oxidation. <i>Chemical Engineering Journal</i> , 2021, 406, 126759.	12.7	65
25	The nature and catalytic reactivity of UiO-66 supported Fe ₃ O ₄ nanoparticles provide new insights into Fe-Zr dual active centers in Fenton-like reactions. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119943.	20.2	65
26	Perfluorooctanesulfonate Degrades in a Laccase-Mediator System. <i>Environmental Science & Technology</i> , 2018, 52, 10617-10626.	10.0	62
27	Wrinkle structure on multifunctional MOFs to facilitate PPCPs adsorption in wastewater. <i>Chemical Engineering Journal</i> , 2020, 387, 124196.	12.7	61
28	Laccase-Catalyzed Degradation of Perfluorooctanoic Acid. <i>Environmental Science and Technology Letters</i> , 2015, 2, 198-203.	8.7	60
29	Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: II. Cross-Coupling with Natural Organic Matter. <i>Environmental Science & Technology</i> , 2009, 43, 7068-7073.	10.0	58
30	Formation of Halogenated Polyaromatic Compounds by Laccase Catalyzed Transformation of Halophenols. <i>Environmental Science & Technology</i> , 2015, 49, 8550-8557.	10.0	55
31	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
32	Ligninase-Mediated Removal of Natural and Synthetic Estrogens from Water: I. Reaction Behaviors. <i>Environmental Science & Technology</i> , 2009, 43, 374-379.	10.0	46
33	Transformation of antimicrobial agent sulfamethazine by peroxymonosulfate: Radical vs. nonradical mechanisms. <i>Science of the Total Environment</i> , 2018, 636, 864-871.	8.0	46
34	Temperature regulated adsorption and desorption of heavy metals to A-MIL-121: Mechanisms and the role of exchangeable protons. <i>Water Research</i> , 2021, 189, 116599.	11.3	46
35	Transformation of iodide and formation of iodinated by-products in heat activated persulfate oxidation process. <i>Chemosphere</i> , 2017, 181, 400-408.	8.2	45
36	Horseradish Peroxidase Inactivation: Heme Destruction and Influence of Polyethylene Glycol. <i>Scientific Reports</i> , 2013, 3, 3126.	3.3	44

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37	Formation of halogenated disinfection byproducts during the degradation of chlorophenols by peroxymonosulfate oxidation in the presence of bromide. <i>Chemical Engineering Journal</i> , 2018, 343, 235-243.	12.7	43
38	Conditioning with zero-valent iron or Fe ²⁺ activated peroxydisulfate at an acidic initial sludge pH removed intracellular antibiotic resistance genes but increased extracellular antibiotic resistance genes in sewage sludge. <i>Journal of Hazardous Materials</i> , 2020, 386, 121982.	12.4	42
39	Exploring mechanisms of different active species formation in heterogeneous Fenton systems by regulating iron chemical environment. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120282.	20.2	40
40	Formation of halogenated disinfection by-products in cobalt-catalyzed peroxymonosulfate oxidation processes in the presence of halides. <i>Chemosphere</i> , 2016, 154, 613-619.	8.2	39
41	Denitration and renitration processes in sulfate radical-mediated degradation of nitrobenzene. <i>Chemical Engineering Journal</i> , 2017, 315, 591-597.	12.7	39
42	Screening the precursors of strong mutagen [3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone] MX from chlorinated water. <i>Water Research</i> , 2000, 34, 225-229.	11.3	37
43	Degradation of roxarsone in a sulfate radical mediated oxidation process and formation of polynitrated by-products. <i>RSC Advances</i> , 2016, 6, 82040-82048.	3.6	35
44	Transformation of ammonium to nitrophenolic byproducts by sulfate radical oxidation. <i>Water Research</i> , 2021, 202, 117432.	11.3	34
45	Predicting Cadmium Safety Thresholds in Soils Based on Cadmium Uptake by Chinese Cabbage. <i>Pedosphere</i> , 2017, 27, 475-481.	4.0	33
46	Ferrous-activated peroxymonosulfate oxidation of antimicrobial agent sulfaquinoxaline and structurally related compounds in aqueous solution: kinetics, products, and transformation pathways. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19535-19545.	5.3	33
47	Degradation of iohexol by Co ²⁺ activated peroxymonosulfate oxidation: Kinetics, reaction pathways, and formation of iodinated byproducts. <i>Chemical Engineering Journal</i> , 2019, 373, 1348-1356.	12.7	33
48	Ligninase-mediated removal of 17 β -estradiol from water in the presence of natural organic matter: Efficiency and pathways. <i>Chemosphere</i> , 2010, 80, 469-473.	8.2	30
49	Transformation of triclosan by laccase catalyzed oxidation: The influence of humic acid-metal binding process. <i>Environmental Pollution</i> , 2017, 220, 1418-1423.	7.5	30
50	High-Efficiency and Sustainable Desalination Using Thermo-regenerable MOF-808-EDTA: Temperature-Regulated Proton Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23833-23842.	8.0	26
51	UV-activated persulfate oxidation of the insensitive munitions compound 2,4-dinitroanisole in water: Kinetics, products, and influence of natural photoinducers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 360, 188-195.	3.9	25
52	Degradation of triclosan in a peroxymonosulfate/Br [•] system: Identification of reactive species and formation of halogenated byproducts. <i>Chemical Engineering Journal</i> , 2020, 384, 123297.	12.7	25
53	Degradation of tetrabromobisphenol A in heat activated persulfate oxidation process. <i>RSC Advances</i> , 2016, 6, 29718-29726.	3.6	24
54	Formation of chloronitrophenols upon sulfate radical-based oxidation of 2-chlorophenol in the presence of nitrite. <i>Environmental Pollution</i> , 2020, 261, 114242.	7.5	23

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55	Accelerated oxidation of the emerging brominated flame retardant tetrabromobisphenol S by unactivated peroxydisulfate: The role of bromine catalysis and formation of disinfection byproducts. <i>Water Research</i> , 2021, 204, 117584.	11.3	22
56	Reactions of the Flavonoid Hesperetin with Chlorine: A Spectroscopic Study of the Reaction Pathways. <i>Environmental Science & Technology</i> , 2004, 38, 4603-4611.	10.0	21
57	Fluoroquinolone antibiotics sensitized photodegradation of isoproturon. <i>Water Research</i> , 2021, 198, 117136.	11.3	21
58	Factors controlling the rate of perfluorooctanoic acid degradation in laccase-mediator systems: The impact of metal ions. <i>Environmental Pollution</i> , 2017, 224, 649-657.	7.5	20
59	Enhanced formation of chlorinated disinfection byproducts in the UV/chlorine process in the presence of benzophenone-4. <i>Chemical Engineering Journal</i> , 2018, 351, 304-311.	12.7	20
60	Trace level nitrite sensitized photolysis of the antimicrobial agents parachlorometaxylenol and chlorophene in water. <i>Water Research</i> , 2021, 200, 117275.	11.3	20
61	Enhancing the performance of Fenton-like oxidation by a dual-layer membrane: A sequential interception-oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 402, 123766.	12.4	18
62	Chlorination and chloramination of benzophenone-3 and benzophenone-4 UV filters. <i>Ecotoxicology and Environmental Safety</i> , 2018, 163, 528-535.	6.0	17
63	Sulfate radical-induced incorporation of NO ₂ group into chlorophenols. <i>Environmental Chemistry Letters</i> , 2019, 17, 1111-1116.	16.2	17
64	Transformation of 17 β -Estradiol Mediated by Lignin Peroxidase: The Role of Veratryl Alcohol. <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 13-19.	4.1	16
65	Differentiation of Pathways of Nitrated Byproduct Formation from Ammonium and Nitrite During Sulfate Radical Oxidation. <i>Environmental Science & Technology</i> , 2022, 56, 7935-7944.	10.0	16
66	Covalent bonding of chloroanilines to humic constituents: Pathways, kinetics, and stability. <i>Environmental Pollution</i> , 2013, 180, 48-54.	7.5	15
67	Aqueous photodecomposition of the emerging brominated flame retardant tetrabromobisphenol S (TBBPS). <i>Environmental Pollution</i> , 2021, 271, 116406.	7.5	15
68	Comparative study of the formation of brominated disinfection byproducts in UV/persulfate and UV/H ₂ O ₂ oxidation processes in the presence of bromide. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23219-23225.	5.3	14
69	Role of schwertmannite or jarosite in photocatalytic degradation of sulfamethoxazole in ultraviolet/peroxydisulfate system. <i>Separation and Purification Technology</i> , 2021, 274, 118991.	7.9	14
70	Removal of 17 β -estradiol in laccase catalyzed treatment processes. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 372-378.	6.0	13
71	Analysis of oestrogenic hormones in chicken litter by HPLC with fluorescence detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 783-790.	3.3	13
72	Formation of nitrophenolic byproducts in soils subjected to sulfate radical oxidation. <i>Chemical Engineering Journal</i> , 2021, 403, 126316.	12.7	13

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73	Hydrogen peroxide suppresses the formation of brominated oxidation by-products in heat-activated peroxydisulfate oxidation process. <i>Chemical Engineering Journal</i> , 2021, 417, 129138.	12.7	13
74	A possible new disinfection by-product—2-chloro-5-oxo-3-hexene diacyl chloride (COHC)—in formation of MX by chlorinating model compounds. <i>Water Research</i> , 2002, 36, 4535-4542.	11.3	12
75	Photodegradation of benzophenones sensitized by nitrite. <i>Science of the Total Environment</i> , 2022, 802, 149850.	8.0	11
76	Transformation of bromide and formation of brominated disinfection byproducts in peracetic acid oxidation of phenol. <i>Chemosphere</i> , 2022, 291, 132698.	8.2	11
77	Factors on the formation of strong mutagen [3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone] MX by chlorination of syringaldehyde. <i>Water Research</i> , 2000, 34, 4313-4317.	11.3	10
78	A spectroscopic study of the bromination of the endocrine disruptor ethynylestradiol. <i>Chemosphere</i> , 2008, 72, 504-508.	8.2	10
79	Influence of poultry litter land application on the concentrations of estrogens in water and sediment within a watershed. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 1383.	3.5	9
80	Transformation of amino acids and formation of nitrophenolic byproducts in sulfate radical oxidation processes. <i>Journal of Hazardous Materials</i> , 2022, 431, 128648.	12.4	9
81	Nitrite-mediated photodegradation of sulfonamides and formation of nitrated products. <i>Chemosphere</i> , 2021, 282, 130968.	8.2	8
82	Aquatic photolysis of ketoprofen generates products with photosensitizing activity and toxicity. <i>Water Research</i> , 2022, 210, 117982.	11.3	8
83	Some problems in the detection of strong mutagen MX formed by chlorinating the aromatic acids and phenolic compounds. <i>Water Research</i> , 2002, 36, 970-974.	11.3	7
84	Transformation of 17 β -Estradiol by <i>Phanerochaete chrysosporium</i> in Different Culture Media. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 95, 265-271.	2.7	7
85	Transformation of triclosan by a novel cold-adapted laccase from <i>Botrytis</i> sp. FQ. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	7
86	UV/H ₂ O ₂ oxidation of chloronitrobenzenes in waters revisited: Hydroxyl radical induced self-nitration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113162.	3.9	7
87	Formation of Nitrophenolic Byproducts during UV-Activated Peroxydisulfate Oxidation in the Presence of Nitrate. <i>ACS ES&T Engineering</i> , 2022, 2, 222-231.	7.6	7
88	Formation of brominated by-products during the degradation of tetrabromobisphenol S by Co ²⁺ /peroxymonosulfate oxidation. <i>Journal of Environmental Management</i> , 2022, 314, 115091.	7.8	7
89	Change of disinfection byproducts formation potential of natural organic matter after exposure to persulfate and bicarbonate. <i>Water Research</i> , 2020, 182, 115970.	11.3	6
90	Direct and nitrite-sensitized indirect photolysis of effluent-derived phenolic contaminants under UV ₂₅₄ irradiation. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 127-139.	3.5	5

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91	The interference of 2-chloro-5-oxo-3-hexene diacyl chloride (COHC) in the detection of strong mutagen MX. <i>Chemosphere</i> , 2002, 48, 29-33.	8.2	4
92	Transformation of sulfonylurea herbicides in simulated drinking water treatment processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3847-3855.	5.3	4
93	Coupling of natural organic matterâ€™metal binding and laccase-catalyzed oxidation of tetrabromobisphenol A. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30199-30209.	5.3	4
94	Aquatic photolysis of 2,4-dichloro-6-nitrophenolâ€™the toxic nitrated byproduct of 2,4-dichlorophenol. <i>Chemosphere</i> , 2022, 291, 132986.	8.2	4
95	Experimental and theoretical study on Fe(VI) oxidative degradation of dichlorophen in water: Kinetics and reaction mechanisms.. <i>Environmental Pollution</i> , 2022, 306, 119394.	7.5	4
96	Self-Accelerated Photodegradation of 2,4-Dihydroxybenzophenone in Water: Formation of Photoactive Products and Implications for the Transformation of Coexisting Organic Contaminants. <i>ACS ES&T Water</i> , 2022, 2, 1065-1072.	4.6	2
97	Nucleophilic substitution as a mechanism of atrazine sequestration in soil. <i>Journal of Hazardous Materials</i> , 2015, 284, 103-107.	12.4	1
98	Comments on â€™Enhanced removal of organic contaminants in water by the combination of peroxydisulfate and carbonateâ€™, <i>Science of the Total Environment</i> , 647, 734â€™743 (2019). <i>Science of the Total Environment</i> , 2019, 670, 1240-1241.	8.0	0