

# Junhe Lu

## List of Publications by Year in descending order

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98  
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5,418  
citations

100601

38  
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97045

71  
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100  
all docs

100  
docs citations

100  
times ranked

4326  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodegradation of benzophenones sensitized by nitrite. <i>Science of the Total Environment</i> , 2022, 802, 149850.	3.9	11
2	Transformation of bromide and formation of brominated disinfection byproducts in peracetic acid oxidation of phenol. <i>Chemosphere</i> , 2022, 291, 132698.	4.2	11
3	Aquatic photolysis of 2,4-dichloro-6-nitrophenol—the toxic nitrated byproduct of 2,4-dichlorophenol. <i>Chemosphere</i> , 2022, 291, 132986.	4.2	4
4	Direct and nitrite-sensitized indirect photolysis of effluent-derived phenolic contaminants under UV <sub>254</sub> irradiation. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 127-139.	1.7	5
5	Formation of Nitrophenolic Byproducts during UV-Activated Peroxydisulfate Oxidation in the Presence of Nitrate. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 222-231.	3.7	7
6	Aquatic photolysis of ketoprofen generates products with photosensitizing activity and toxicity. <i>Water Research</i> , 2022, 210, 117982.	5.3	8
7	Transformation of amino acids and formation of nitrophenolic byproducts in sulfate radical oxidation processes. <i>Journal of Hazardous Materials</i> , 2022, 431, 128648.	6.5	9
8	Differentiation of Pathways of Nitrated Byproduct Formation from Ammonium and Nitrite During Sulfate Radical Oxidation. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7935-7944.	4.6	16
9	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&amp;T Water</i> , 2022, 2, 1065-1072.	2.3	2
10	Formation of brominated by-products during the degradation of tetrabromobisphenol S by Co <sup>2+</sup> /peroxymonosulfate oxidation. <i>Journal of Environmental Management</i> , 2022, 314, 115091.	3.8	7
11	Experimental and theoretical study on Fe(VI) oxidative degradation of dichlorophen in water: Kinetics and reaction mechanisms.. <i>Environmental Pollution</i> , 2022, 306, 119394.	3.7	4
12	Formation of nitrophenolic byproducts in soils subjected to sulfate radical oxidation. <i>Chemical Engineering Journal</i> , 2021, 403, 126316.	6.6	13
13	Degradation of sulfamethoxazole by Co <sub>3</sub> O <sub>4</sub> -palygorskite composites activated peroxymonosulfate oxidation. <i>Chemical Engineering Journal</i> , 2021, 406, 126759.	6.6	65
14	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.	6.5	18
15	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.	5.3	46
16	Aqueous photodecomposition of the emerging brominated flame retardant tetrabromobisphenol S (TBBPS). <i>Environmental Pollution</i> , 2021, 271, 116406.	3.7	15
17	UV/H <sub>2</sub> O <sub>2</sub> oxidation of chloronitrobenzenes in waters revisited: Hydroxyl radical induced self-nitration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113162.	2.0	7
18	High-Efficiency and Sustainable Desalination Using Thermo-regenerable MOF-808-EDTA: Temperature-Regulated Proton Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23833-23842.	4.0	26

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19	The nature and catalytic reactivity of UiO-66 supported Fe <sub>3</sub> O <sub>4</sub> nanoparticles provide new insights into Fe-Zr dual active centers in Fenton-like reactions. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119943.	10.8	65
20	Fluoroquinolone antibiotics sensitized photodegradation of isoproturon. <i>Water Research</i> , 2021, 198, 117136.	5.3	21
21	Trace level nitrite sensitized photolysis of the antimicrobial agents parachlormetaxyleneol and chlorophene in water. <i>Water Research</i> , 2021, 200, 117275.	5.3	20
22	Hydrogen peroxide suppresses the formation of brominated oxidation by-products in heat-activated peroxydisulfate oxidation process. <i>Chemical Engineering Journal</i> , 2021, 417, 129138.	6.6	13
23	Transformation of ammonium to nitrophenolic byproducts by sulfate radical oxidation. <i>Water Research</i> , 2021, 202, 117432.	5.3	34
24	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.	10.8	40
25	Accelerated oxidation of the emerging brominated flame retardant tetrabromobisphenol S by unactivated peroxymonosulfate: The role of bromine catalysis and formation of disinfection byproducts. <i>Water Research</i> , 2021, 204, 117584.	5.3	22
26	Role of schwertmannite or jarosite in photocatalytic degradation of sulfamethoxazole in ultraviolet/peroxydisulfate system. <i>Separation and Purification Technology</i> , 2021, 274, 118991.	3.9	14
27	Nitrite-mediated photodegradation of sulfonamides and formation of nitrated products. <i>Chemosphere</i> , 2021, 282, 130968.	4.2	8
28	Effects of chloride on electrochemical degradation of perfluorooctanesulfonate by Magn <sup>+</sup> @li phase TiO <sub>2</sub> and boron doped diamond anodes. <i>Water Research</i> , 2020, 170, 115254.	5.3	83
29	Degradation of triclosan in a peroxymonosulfate/Br <sup>•</sup> system: Identification of reactive species and formation of halogenated byproducts. <i>Chemical Engineering Journal</i> , 2020, 384, 123297.	6.6	25
30	Conditioning with zero-valent iron or Fe <sup>2+</sup> 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.	6.5	42
31	Change of disinfection byproducts formation potential of natural organic matter after exposure to persulfate and bicarbonate. <i>Water Research</i> , 2020, 182, 115970.	5.3	6
32	Coupling of natural organic matter-metal binding and laccase-catalyzed oxidation of tetrabromobisphenol A. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30199-30209.	2.7	4
33	Enhancing the Fenton-like Catalytic Activity of nFe <sub>2</sub> O <sub>3</sub> by MIL-53(Cu) Support: A Mechanistic Investigation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5258-5267.	4.6	103
34	Wrinkle structure on multifunctional MOFs to facilitate PPCPs adsorption in wastewater. <i>Chemical Engineering Journal</i> , 2020, 387, 124196.	6.6	61
35	Formation of chloronitrophenols upon sulfate radical-based oxidation of 2-chlorophenol in the presence of nitrite. <i>Environmental Pollution</i> , 2020, 261, 114242.	3.7	23
36	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.	6.5	83

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37	Degradation of iohexol by Co <sup>2+</sup> activated peroxymonosulfate oxidation: Kinetics, reaction pathways, and formation of iodinated byproducts. <i>Chemical Engineering Journal</i> , 2019, 373, 1348-1356.	6.6	33
38	Formation of Nitrophenolic Byproducts during Heat-Activated Peroxydisulfate Oxidation in the Presence of Natural Organic Matter and Nitrite. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4255-4264.	4.6	67
39	Sulfate radical-induced incorporation of NO <sub>2</sub> group into chlorophenols. <i>Environmental Chemistry Letters</i> , 2019, 17, 1111-1116.	8.3	17
40	Comments on "Enhanced removal of organic contaminants in water by the combination of peroxymonosulfate and carbonate", <i>Science of the Total Environment</i> , 647, 734-743 (2019). <i>Science of the Total Environment</i> , 2019, 670, 1240-1241.	3.9	0
41	Photodegradation of sulfasalazine and its human metabolites in water by UV and UV/peroxydisulfate processes. <i>Water Research</i> , 2018, 133, 299-309.	5.3	77
42	Transformation of antimicrobial agent sulfamethazine by peroxymonosulfate: Radical vs. nonradical mechanisms. <i>Science of the Total Environment</i> , 2018, 636, 864-871.	3.9	46
43	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.	6.6	43
44	Non-activated peroxymonosulfate oxidation of sulfonamide antibiotics in water: Kinetics, mechanisms, and implications for water treatment. <i>Water Research</i> , 2018, 147, 82-90.	5.3	125
45	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.	6.6	20
46	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.	2.0	25
47	Chlorination and chloramination of benzophenone-3 and benzophenone-4 UV filters. <i>Ecotoxicology and Environmental Safety</i> , 2018, 163, 528-535.	2.9	17
48	Perfluorooctanesulfonate Degrades in a Laccase-Mediator System. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10617-10626.	4.6	62
49	Denitration and renitration processes in sulfate radical-mediated degradation of nitrobenzene. <i>Chemical Engineering Journal</i> , 2017, 315, 591-597.	6.6	39
50	Predicting Cadmium Safety Thresholds in Soils Based on Cadmium Uptake by Chinese Cabbage. <i>Pedosphere</i> , 2017, 27, 475-481.	2.1	33
51	Transformation of iodide and formation of iodinated by-products in heat activated persulfate oxidation process. <i>Chemosphere</i> , 2017, 181, 400-408.	4.2	45
52	Sulfate radical-based oxidation of antibiotics sulfamethazine, sulfapyridine, sulfadiazine, sulfadimethoxine, and sulfachloropyridazine: Formation of SO <sub>2</sub> extrusion products and effects of natural organic matter. <i>Science of the Total Environment</i> , 2017, 593-594, 704-712.	3.9	104
53	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.	3.7	20
54	Bicarbonate-activated persulfate oxidation of acetaminophen. <i>Water Research</i> , 2017, 116, 324-331.	5.3	169

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55	Transformation of triclosan by laccase catalyzed oxidation: The influence of humic acid-metal binding process. <i>Environmental Pollution</i> , 2017, 220, 1418-1423.	3.7	30
56	Comparative study of the formation of brominated disinfection byproducts in UV/persulfate and UV/H <sub>2</sub> O <sub>2</sub> oxidation processes in the presence of bromide. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23219-23225.	2.7	14
57	Degradation of atrazine in heterogeneous Co <sub>3</sub> O <sub>4</sub> activated peroxymonosulfate oxidation process: Kinetics, mechanisms, and reaction pathways. <i>Chemical Engineering Journal</i> , 2017, 330, 831-839.	6.6	147
58	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.	2.7	33
59	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.	5.3	130
60	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.	3.3	7
61	Formation of halogenated disinfection by-products in cobalt-catalyzed peroxymonosulfate oxidation processes in the presence of halides. <i>Chemosphere</i> , 2016, 154, 613-619.	4.2	39
62	Natural Organic Matter Exposed to Sulfate Radicals Increases Its Potential to Form Halogenated Disinfection Byproducts. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5060-5067.	4.6	67
63	Thermo-activated persulfate oxidation system for tetracycline antibiotics degradation in aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 298, 225-233.	6.6	269
64	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.	6.5	122
65	Degradation of roxarsone in a sulfate radical mediated oxidation process and formation of polynitrated by-products. <i>RSC Advances</i> , 2016, 6, 82040-82048.	1.7	35
66	Simultaneous removal of bisphenol A and phosphate in zero-valent iron activated persulfate oxidation process. <i>Chemical Engineering Journal</i> , 2016, 303, 458-466.	6.6	135
67	Degradation of trimethoprim by thermo-activated persulfate oxidation: Reaction kinetics and transformation mechanisms. <i>Chemical Engineering Journal</i> , 2016, 286, 16-24.	6.6	122
68	Degradation of tetrabromobisphenol A in heat activated persulfate oxidation process. <i>RSC Advances</i> , 2016, 6, 29718-29726.	1.7	24
69	Rapid Removal of Tetrabromobisphenol A by Ozonation in Water: Oxidation Products, Reaction Pathways and Toxicity Assessment. <i>PLoS ONE</i> , 2015, 10, e0139580.	1.1	49
70	Transformation of 17 $\beta$ -Estradiol by <i>Phanerochaete chrysosporium</i> in Different Culture Media. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 95, 265-271.	1.3	7
71	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.	6.5	307
72	Laccase-Catalyzed Degradation of Perfluorooctanoic Acid. <i>Environmental Science and Technology Letters</i> , 2015, 2, 198-203.	3.9	60

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73	Formation of brominated disinfection by-products and bromate in cobalt catalyzed peroxymonosulfate oxidation of phenol. <i>Water Research</i> , 2015, 84, 1-7.	5.3	112
74	Formation of Halogenated Polyaromatic Compounds by Laccase Catalyzed Transformation of Halophenols. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8550-8557.	4.6	55
75	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.	6.5	354
76	Transformation of bromide in thermo activated persulfate oxidation processes. <i>Water Research</i> , 2015, 78, 1-8.	5.3	106
77	Thermo activated persulfate oxidation of antibiotic sulfamethoxazole and structurally related compounds. <i>Water Research</i> , 2015, 87, 1-9.	5.3	344
78	Nucleophilic substitution as a mechanism of atrazine sequestration in soil. <i>Journal of Hazardous Materials</i> , 2015, 284, 103-107.	6.5	1
79	Transformation of sulfonylurea herbicides in simulated drinking water treatment processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3847-3855.	2.7	4
80	Heat-activated persulfate oxidation of atrazine: Implications for remediation of groundwater contaminated by herbicides. <i>Chemical Engineering Journal</i> , 2015, 263, 45-54.	6.6	438
81	Removal of 17 $\beta$ -estradiol in laccase catalyzed treatment processes. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 372-378.	3.3	13
82	Analysis of oestrogenic hormones in chicken litter by HPLC with fluorescence detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 783-790.	1.8	13
83	Horseradish Peroxidase Inactivation: Heme Destruction and Influence of Polyethylene Glycol. <i>Scientific Reports</i> , 2013, 3, 3126.	1.6	44
84	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.	1.7	9
85	Covalent bonding of chloroanilines to humic constituents: Pathways, kinetics, and stability. <i>Environmental Pollution</i> , 2013, 180, 48-54.	3.7	15
86	Transformation of 17 $\beta$ -Estradiol Mediated by Lignin Peroxidase: The Role of Veratryl Alcohol. <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 13-19.	2.1	16
87	Ligninase-mediated removal of 17 $\beta$ -estradiol from water in the presence of natural organic matter: Efficiency and pathways. <i>Chemosphere</i> , 2010, 80, 469-473.	4.2	30
88	Ligninase-Mediated Removal of Natural and Synthetic Estrogens from Water: II. Reactions of 17 $\beta$ -Estradiol. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2599-2604.	4.6	69
89	Ligninase-Mediated Removal of Natural and Synthetic Estrogens from Water: I. Reaction Behaviors. <i>Environmental Science &amp; Technology</i> , 2009, 43, 374-379.	4.6	46
90	Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: I. Reaction Rates and Pathways. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7062-7067.	4.6	109

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91	Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: II. Cross-Coupling with Natural Organic Matter. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7068-7073.	4.6	58
92	A spectroscopic study of the bromination of the endocrine disruptor ethynylestradiol. <i>Chemosphere</i> , 2008, 72, 504-508.	4.2	10
93	Reactions of the Flavonoid Hesperetin with Chlorine: A Spectroscopic Study of the Reaction Pathways. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4603-4611.	4.6	21
94	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.	4.2	4
95	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.	5.3	7
96	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.	5.3	12
97	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.	5.3	10
98	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.	5.3	37