

# Shujuan Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6526/publications.pdf>

Version: 2024-02-01

108  
papers

6,743  
citations

81839

39  
h-index

62565

80  
g-index

109  
all docs

109  
docs citations

109  
times ranked

8363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal removal from water/wastewater by nanosized metal oxides: A review. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 317-331.	6.5	1,767
2	Polymer-supported nanocomposites for environmental application: A review. <i>Chemical Engineering Journal</i> , 2011, 170, 381-394.	6.6	534
3	Application potential of carbon nanotubes in water treatment: A review. <i>Journal of Environmental Sciences</i> , 2013, 25, 1263-1280.	3.2	280
4	Adsorption of Aromatic Compounds by Carbonaceous Adsorbents: A Comparative Study on Granular Activated Carbon, Activated Carbon Fiber, and Carbon Nanotubes. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6377-6383.	4.6	237
5	Adsorption of synthetic organic chemicals by carbon nanotubes: Effects of background solution chemistry. <i>Water Research</i> , 2010, 44, 2067-2074.	5.3	207
6	Preparation and evaluation of a magnetite-doped activated carbon fiber for enhanced arsenic removal. <i>Carbon</i> , 2010, 48, 60-67.	5.4	162
7	An XPS study for mechanisms of arsenate adsorption onto a magnetite-doped activated carbon fiber. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 232-238.	5.0	161
8	Effect of effluent organic matter on the adsorption of perfluorinated compounds onto activated carbon. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 99-106.	6.5	151
9	The Impacts of Aggregation and Surface Chemistry of Carbon Nanotubes on the Adsorption of Synthetic Organic Compounds. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5719-5725.	4.6	146
10	The effects of dissolved natural organic matter on the adsorption of synthetic organic chemicals by activated carbons and carbon nanotubes. <i>Water Research</i> , 2011, 45, 1378-1386.	5.3	126
11	Bifunctional resin-ZVI composites for effective removal of arsenite through simultaneous adsorption and oxidation. <i>Water Research</i> , 2013, 47, 6064-6074.	5.3	102
12	Radiation-induced degradation of polyvinyl alcohol in aqueous solutions. <i>Water Research</i> , 2004, 38, 309-316.	5.3	99
13	Oxygen-vacancy-mediated energy transfer for singlet oxygen generation by diketone-anchored MIL-125. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120197.	10.8	99
14	Kinetics and efficiency of the hydrated electron-induced dehalogenation by the sulfite/LUV process. <i>Water Research</i> , 2014, 62, 220-228.	5.3	95
15	Immobilization of laccase in a sponge-like hydrogel for enhanced durability in enzymatic degradation of dye pollutants. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 353-360.	5.0	86
16	Efficient As(III) removal by macroporous anion exchanger-supported Fe <sup>2+</sup> /Mn binary oxide: Behavior and mechanism. <i>Chemical Engineering Journal</i> , 2012, 193-194, 131-138.	6.6	81
17	Coagulation removal of fluoride by zirconium tetrachloride: Performance evaluation and mechanism analysis. <i>Chemosphere</i> , 2019, 218, 860-868.	4.2	81
18	PVA-based activated carbon fibers with lotus root-like axially porous structure. <i>Carbon</i> , 2006, 44, 2059-2068.	5.4	75

#	ARTICLE	IF	CITATIONS
19	Hydrous ferric oxide-resin nanocomposites of tunable structure for arsenite removal: Effect of the host pore structure. <i>Journal of Hazardous Materials</i> , 2011, 198, 241-246.	6.5	74
20	Intraligand charge transfer boosts visible-light-driven generation of singlet oxygen by metal-organic frameworks. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119087.	10.8	62
21	Visible Light Photocatalytic Degradation of RhB by Polymer-CdS Nanocomposites: Role of the Host Functional Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3938-3943.	4.0	58
22	Potential of titanium coagulants for water and wastewater treatment: Current status and future perspectives. <i>Chemical Engineering Journal</i> , 2021, 406, 126837.	6.6	58
23	Effect of sulfate on Cu(II) sorption to polymer-supported nano-iron oxides: Behavior and XPS study. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 37-43.	5.0	56
24	Immobilization of polyethylenimine nanoclusters onto a cation exchange resin through self-crosslinking for selective Cu(II) removal. <i>Journal of Hazardous Materials</i> , 2011, 190, 1037-1044.	6.5	55
25	Ligand effects on nitrate reduction by zero-valent iron: Role of surface complexation. <i>Water Research</i> , 2017, 114, 218-227.	5.3	55
26	New insights into nanocomposite adsorbents for water treatment: A case study of polystyrene-supported zirconium phosphate nanoparticles for lead removal. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5355-5364.	0.8	54
27	Preparation and Evaluation of Titanium-Based Xerogel as a Promising Coagulant for Water/Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9619-9626.	4.6	54
28	Kinetics and Mechanisms of Radiolytic Degradation of Nitrobenzene in Aqueous Solutions. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1977-1982.	4.6	51
29	Adsorption kinetics of aromatic compounds on carbon nanotubes and activated carbons. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 79-85.	2.2	51
30	Advantages of titanium xerogel over titanium tetrachloride and polytitanium tetrachloride in coagulation: A mechanism analysis. <i>Water Research</i> , 2018, 132, 350-360.	5.3	49
31	Overlooked Role of Peroxides as Free Radical Precursors in Advanced Oxidation Processes. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2054-2062.	4.6	48
32	Enhanced decomplexation of Cu(II)-EDTA: The role of acetylacetone in Cu-mediated photo-Fenton reactions. <i>Chemical Engineering Journal</i> , 2019, 358, 1218-1226.	6.6	48
33	Impact of carbon nanotube morphology on phenanthrene adsorption. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 73-78.	2.2	47
34	Potent removal of cyanobacteria with controlled release of toxic secondary metabolites by a titanium xerogel coagulant. <i>Water Research</i> , 2018, 128, 341-349.	5.3	47
35	Diketone-Mediated Photochemical Processes for Target-Selective Degradation of Dye Pollutants. <i>Environmental Science and Technology Letters</i> , 2014, 1, 167-171.	3.9	46
36	Redox Conversion of Arsenite and Nitrate in the UV/Quinone Systems. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10011-10018.	4.6	45

#	ARTICLE	IF	CITATIONS
37	Catalytic dechlorination of monochlorobenzene by Pd/Fe nanoparticles immobilized within a polymeric anion exchanger. <i>Chemical Engineering Journal</i> , 2011, 178, 161-167.	6.6	44
38	Photodegradation of Acid Orange 7 in a UV/acetylacetone process. <i>Chemosphere</i> , 2013, 93, 2877-2882.	4.2	44
39	A thermally stable mesoporous ZrO <sub>2</sub> @CeO <sub>2</sub> @TiO <sub>2</sub> visible light photocatalyst. <i>Chemical Engineering Journal</i> , 2013, 229, 118-125.	6.6	40
40	Non-hydroxyl radical mediated photochemical processes for dye degradation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7571-7577.	1.3	38
41	Effects of acetylacetone on the photoconversion of pharmaceuticals in natural and pure waters. <i>Environmental Pollution</i> , 2017, 225, 691-699.	3.7	38
42	Structure evolution and optimization in the fabrication of PVA-based activated carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 96-102.	5.0	37
43	Surface Chemistry of Nanosized Hydrated Ferric Oxide Encapsulated Inside Porous Polymer: Modeling and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6201-6209.	1.5	37
44	The suitability of titanium salts in coagulation removal of micropollutants and in alleviation of membrane fouling. <i>Water Research</i> , 2021, 205, 117692.	5.3	37
45	A fabrication strategy for nanosized zero valent iron (nZVI)@polymeric anion exchanger composites with tunable structure for nitrate reduction. <i>Journal of Hazardous Materials</i> , 2012, 233-234, 1-6.	6.5	36
46	Fate and implication of acetylacetone in photochemical processes for water treatment. <i>Water Research</i> , 2016, 101, 233-240.	5.3	36
47	Kinetic modeling of the radiolytic degradation of Acid Orange 7 in aqueous solutions. <i>Water Research</i> , 2005, 39, 839-846.	5.3	33
48	Sorption removal of phthalate esters and bisphenols to biofilms from urban river: From macroscopic to microcosmic investigation. <i>Water Research</i> , 2019, 150, 261-270.	5.3	33
49	Key structural features that determine the selectivity of UV/acetylacetone for the degradation of aromatic pollutants when compared to UV/H <sub>2</sub> O <sub>2</sub> . <i>Water Research</i> , 2021, 196, 117046.	5.3	33
50	Removal of 2,4-dichlorophenol from aqueous solution by static-air-activated carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 80-85.	5.0	32
51	Oxalate-promoted dissolution of hydrous ferric oxide immobilized within nanoporous polymers: Effect of ionic strength and visible light irradiation. <i>Chemical Engineering Journal</i> , 2013, 232, 167-173.	6.6	31
52	Recyclable polymer-based nano-hydrous manganese dioxide for highly efficient Tl(I) removal from water. <i>Science China Chemistry</i> , 2014, 57, 763-771.	4.2	31
53	Acetylacetone as an efficient electron shuttle for concerted redox conversion of arsenite and nitrate in the opposite direction. <i>Water Research</i> , 2017, 124, 331-340.	5.3	31
54	Improved resistance to organic matter load by compositing a cationic flocculant into the titanium xerogel coagulant. <i>Separation and Purification Technology</i> , 2019, 211, 715-722.	3.9	30

#	ARTICLE	IF	CITATIONS
55	Regulation of Photosynthesis in Bloom-Forming Cyanobacteria with the Simplest $\hat{1}^2$ -Diketone. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14173-14184.	4.6	24
56	Co-immobilization of laccase and mediator through a self-initiated one-pot process for enhanced conversion of malachite green. <i>Journal of Colloid and Interface Science</i> , 2016, 471, 20-28.	5.0	23
57	Sludge reduction and cost saving in removal of Cu(II)-EDTA from electroplating wastewater by introducing a low dose of acetylacetone into the Fe(III)/UV/NaOH process. <i>Journal of Hazardous Materials</i> , 2020, 382, 121107.	6.5	22
58	Quantitative structure-activity relationship in the photodegradation of azo dyes. <i>Journal of Environmental Sciences</i> , 2020, 90, 41-50.	3.2	22
59	Applicability of light sources and the inner filter effect in UV/acetylacetone and UV/H <sub>2</sub> O <sub>2</sub> processes. <i>Journal of Hazardous Materials</i> , 2017, 335, 100-107.	6.5	21
60	Enhanced visible light responsive photocatalytic activity of TiO <sub>2</sub> -based nanocrystallites: impact of doping sequence. <i>RSC Advances</i> , 2015, 5, 7363-7369.	1.7	20
61	Effects of water chemistry on decolorization in three photochemical processes: Pro and cons of the UV/AA process. <i>Water Research</i> , 2016, 105, 568-574.	5.3	20
62	The photochemistry of carbon nanotubes and its impact on the photo-degradation of dye pollutants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 98-104.	5.0	18
63	Iron in non-hydroxyl radical mediated photochemical processes for dye degradation: Catalyst or inhibitor?. <i>Chemosphere</i> , 2015, 131, 55-62.	4.2	18
64	Key factors in the ligand effects on the photo redox cycling of aqueous iron species. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 281, 1-11.	1.6	18
65	Simple fabrication of polymer-based <i>Trametes versicolor</i> laccase for decolorization of malachite green. <i>Bioresource Technology</i> , 2012, 115, 16-20.	4.8	17
66	Laccase immobilization with metal-organic frameworks: Current status, remaining challenges and future perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1282-1324.	6.6	17
67	Titanium Coagulation Simplified Removal Procedure and Alleviated Membrane Fouling in Treatment of Antimony-Containing Wastewater. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1094-1103.	3.7	17
68	Potential of acetylacetone as a mediator for <i>Trametes versicolor</i> laccase in enzymatic transformation of organic pollutants. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10882-10889.	2.7	16
69	Enhanced Photooxidation of Hydroquinone by Acetylacetone, a Novel Photosensitizer and Electron Shuttle. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11232-11239.	4.6	16
70	Deep removal of arsenite from water with no need for pre-oxidation or in-line oxidation. <i>Chemical Engineering Journal</i> , 2020, 401, 126046.	6.6	16
71	Light-triggered reversible sorption of azo dyes on titanium xerogels with photo-switchable acetylacetonato anchors. <i>Chemical Communications</i> , 2014, 50, 1086-1088.	2.2	15
72	Reduction of chromate with UV/diacetyl for the final effluent to be below the discharge limit. <i>Journal of Hazardous Materials</i> , 2020, 389, 121841.	6.5	15

#	ARTICLE	IF	CITATIONS
73	Role of complexation in the photochemical reduction of chromate by acetylacetone. <i>Journal of Hazardous Materials</i> , 2020, 400, 123306.	6.5	15
74	Optimization of Radiolytic Degradation of Poly(vinyl alcohol). <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 1995-2001.	1.8	14
75	Effect of CdS distribution on the photocatalytic performance of resin-CdS nanocomposites. <i>Chemical Engineering Journal</i> , 2011, 174, 351-356.	6.6	14
76	Fabrication of anion exchanger resin/nano-CdS composite photocatalyst for visible light RhB degradation. <i>Nanotechnology</i> , 2011, 22, 305707.	1.3	14
77	Applicability of the linear solvation energy relationships in the prediction for adsorption of aromatic compounds on activated carbons from aqueous solutions. <i>Separation and Purification Technology</i> , 2013, 117, 111-117.	3.9	14
78	Feasibility of the UV/AA process as a pretreatment approach for bioremediation of dye-laden wastewater. <i>Chemosphere</i> , 2018, 194, 488-494.	4.2	14
79	Peroxy radicals from diketones enhanced the indirect photochemical transformation of carbamazepine: Kinetics, mechanisms, and products. <i>Water Research</i> , 2022, 217, 118424.	5.3	14
80	Acetylacetone Interferes with Carbon and Nitrogen Metabolism of <i>Microcystis aeruginosa</i> by Cutting Off the Electron Flow to Ferredoxin. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9683-9692.	4.6	14
81	Iron-mediated oxidation of arsenic(III) by oxygen and hydrogen peroxide: Dispersed versus resin-supported zero-valent iron. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 179-184.	5.0	13
82	A settling curve modeling method for quantitative description of the dispersion stability of carbon nanotubes in aquatic environments. <i>Journal of Environmental Sciences</i> , 2015, 29, 1-10.	3.2	12
83	Ligand effects on arsenite removal by zero-valent iron/O <sub>2</sub> : Dissolution, corrosion, oxidation and coprecipitation. <i>Journal of Environmental Sciences</i> , 2019, 86, 131-140.	3.2	12
84	Effect of spatial distribution and aging of ZVI on the reactivity of resin-ZVI composites for arsenite removal. <i>Journal of Materials Science</i> , 2014, 49, 7073-7079.	1.7	10
85	Nonnegligible Generation of Hydroxyl Radicals from UVC Photolysis of Aqueous Nitrous Oxide. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9785-9792.	4.6	10
86	Mechanistic Study of Pb(II) Removal by TiO <sub>2</sub> and Effect of PO <sub>4</sub> . <i>Langmuir</i> , 2020, 36, 13918-13927.	1.6	10
87	Effects of Low-Molecular-Weight Organics on the Photoreduction of Bromate in Water. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 581-590.	3.7	10
88	Radiation-induced Degradation of Nitrobenzene in Aqueous Solutions. <i>Chemistry Letters</i> , 2003, 32, 718-719.	0.7	9
89	Fabrication and Evaluation of Mesoporous Poly(vinyl alcohol)-Based Activated Carbon Fibers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3398-3402.	1.8	9
90	Acetylacetone extends the working life of laccase in enzymatic transformation of malachite green by interfering with a key intermediate. <i>Journal of Hazardous Materials</i> , 2019, 366, 520-528.	6.5	9

#	ARTICLE	IF	CITATIONS
91	Analysis of key factors in the coagulation of metal salts based on the calculation of hydrolysis-precipitation distribution. <i>Scientia Sinica Chimica</i> , 2021, 51, 458-467.	0.2	9
92	Titanium xerogel as a potential alternative for polymeric ferric sulfate in coagulation removal of antimony from reverse osmosis concentrate. <i>Separation and Purification Technology</i> , 2022, 291, 120863.	3.9	9
93	Preparation and performance evaluation of resin-derived carbon spheres for desulfurization of fuels. <i>Science China Chemistry</i> , 2013, 56, 393-398.	4.2	8
94	Effects of acetylacetone on the thermal and photochemical conversion of benzoquinone in aqueous solution. <i>Chemosphere</i> , 2019, 223, 628-635.	4.2	7
95	Metal-free generation of hydroxyl radicals by benzoate-mediated decomposition of peroxides. <i>Chemical Communications</i> , 2020, 56, 7443-7446.	2.2	7
96	A joint mechanism for singlet oxygen generation by diketone-anchored MIL-101: Exciton-mediated energy transfer and photosensitization. <i>Applied Catalysis A: General</i> , 2021, 626, 118360.	2.2	7
97	Basicity of titanium-based coagulants matters in the treatment of low-turbidity water. <i>Separation and Purification Technology</i> , 2022, 281, 119989.	3.9	7
98	The correlation between structural characteristics of activated carbons and their adsorption of organic solutes from aqueous solutions. <i>Adsorption</i> , 2012, 18, 229-238.	1.4	6
99	Improved performance and prolonged lifetime of titania-based materials: sequential use as adsorbent and photocatalyst. <i>Science China Chemistry</i> , 2015, 58, 1211-1219.	4.2	6
100	Decoloration of Alizarin Red (an Anthraquinone Dye) with the UV/Acetylacetone Process. <i>Acta Chimica Sinica</i> , 2014, 72, 461.	0.5	6
101	UV-Induced Redox Conversion of Tellurite by Biacetyl. <i>Environmental Science &amp; Technology</i> , 2021, 55, 16646-16654.	4.6	6
102	Photochemical Synthesis of Selenium Nanospheres of Tunable Size and Colloidal Stability with Simple Diketones. <i>Langmuir</i> , 2021, 37, 9793-9801.	1.6	5
103	Diketone-mediated photochemical reduction of selenite to elemental selenium: Role of carbon-centered radicals and complexation. <i>Chemical Engineering Journal</i> , 2022, 445, 136831.	6.6	5
104	A photoaffinity labeling strategy identified EF1A1 as a binding protein of cyclic dinucleotide 2'3'-cGAMP. <i>Cell Chemical Biology</i> , 2022, 29, 133-144.e20.	2.5	4
105	Mechanistic Study on the Radiolysis of Dilute PVA Aqueous Solutions. <i>Chemistry Letters</i> , 2004, 33, 562-563.	0.7	2
106	Effects of an electric or magnetic field on the radiolytic degradation of two biorefractory contaminants. <i>Journal of Hazardous Materials</i> , 2005, 119, 153-158.	6.5	2
107	Facile Synthesis and Evaluation of Size-tunable Immobilized Laccase-mediator Microreactor. <i>Acta Chimica Sinica</i> , 2016, 74, 518.	0.5	2
108	An all-in-one approach for synthesis and functionalization of nano colloidal gold with acetylacetone. <i>Nanotechnology</i> , 2022, 33, 075605.	1.3	2