

# Shuangshi Dong

## List of Publications by Year in descending order

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62  
papers

2,744  
citations

147801

31  
h-index

182427

51  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing degradation and mineralization of tetracycline using intimately coupled photocatalysis and biodegradation (ICPB). <i>Chemical Engineering Journal</i> , 2017, 316, 7-14.	12.7	207
2	Photo-Fenton degradation of emerging pollutants over Fe-POM nanoparticle/porous and ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheet with rich nitrogen defect: Degradation mechanism, pathways, and products toxicity assessment. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119349.	20.2	206
3	Carbon nanodots/WO <sub>3</sub> nanorods Z-scheme composites: Remarkably enhanced photocatalytic performance under broad spectrum. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 253-264.	20.2	173
4	N-doped carbon quantum dots/TiO <sub>2</sub> hybrid composites with enhanced visible light driven photocatalytic activity toward dye wastewater degradation and mechanism insight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 325, 104-110.	3.9	128
5	Roles of an easily biodegradable co-substrate in enhancing tetracycline treatment in an intimately coupled photocatalytic-biological reactor. <i>Water Research</i> , 2018, 136, 75-83.	11.3	124
6	Nitrogen Vacancy-Modulated Peroxymonosulfate Nonradical Activation for Organic Contaminant Removal via High-Valent Cobalt-Oxo Species. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5611-5619.	10.0	109
7	An environmentally friendly Z-scheme WO <sub>3</sub> /CDots/CdS heterostructure with remarkable photocatalytic activity and anti-photocorrosion performance. <i>Journal of Catalysis</i> , 2017, 356, 1-13.	6.2	99
8	Porous 0D/3D NiCo <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> accelerate emerging pollutant degradation in PMS/vis system: Degradation mechanism, pathway and toxicity assessment. <i>Chemical Engineering Journal</i> , 2020, 397, 125356.	12.7	98
9	Efficient photoactivation of peroxymonosulfate by Z-scheme nitrogen-defect-rich NiCo <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> for rapid emerging pollutants degradation. <i>Journal of Hazardous Materials</i> , 2021, 414, 125528.	12.4	87
10	Intimate Coupling of Photocatalysis and Biodegradation for Degrading Phenol Using Different Light Types: Visible Light vs UV Light. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7776-7783.	10.0	85
11	Microbial selection pressure is not a prerequisite for granulation: Dynamic granulation and microbial community study in a complete mixing bioreactor. <i>Bioresource Technology</i> , 2014, 161, 102-108.	9.6	77
12	Intimate coupling of an N-doped TiO <sub>2</sub> photocatalyst and anode respiring bacteria for enhancing 4-chlorophenol degradation and current generation. <i>Chemical Engineering Journal</i> , 2017, 317, 882-889.	12.7	77
13	Visible-light-driven photo-Fenton reaction with $\hat{1}\pm$ -Fe <sub>2</sub> O <sub>3</sub> /BiOI at near neutral pH: Boosted photogenerated charge separation, optimum operating parameters and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 531-543.	9.4	76
14	Model-based evaluation of tetracycline hydrochloride removal and mineralization in an intimately coupled photocatalysis and biodegradation reactor. <i>Chemical Engineering Journal</i> , 2018, 351, 967-975.	12.7	64
15	Towards a simultaneous combination of ozonation and biodegradation for enhancing tetracycline decomposition and toxicity elimination. <i>Bioresource Technology</i> , 2020, 304, 123009.	9.6	64
16	Role of self-assembly coated Er <sup>3+</sup> :YAlO <sub>3</sub> /TiO <sub>2</sub> in intimate coupling of visible-light-responsive photocatalysis and biodegradation reactions. <i>Journal of Hazardous Materials</i> , 2016, 302, 386-394.	12.4	62
17	Tetracycline hydrochloride degradation over manganese cobaltate (MnCo <sub>2</sub> O <sub>4</sub> ) modified ultrathin graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanosheet through the highly efficient activation of peroxymonosulfate under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 449-462.	9.4	52
18	Respective construction of Type-II and direct Z-scheme heterostructure by selectively depositing CdS on {001} and {101} facets of TiO <sub>2</sub> nanosheet with CDots modification: A comprehensive comparison. <i>Journal of Hazardous Materials</i> , 2019, 366, 311-320.	12.4	45

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19	Fabrication of Ag/CDots/BiOBr ternary photocatalyst with enhanced visible-light driven photocatalytic activity for 4-chlorophenol degradation. <i>Journal of Molecular Liquids</i> , 2018, 262, 194-203.	4.9	43
20	Simultaneous pollutant degradation and power generation in visible-light responsive photocatalytic fuel cell with an Ag-TiO <sub>2</sub> loaded photoanode. <i>Nano Structures Nano Objects</i> , 2018, 15, 167-172.	3.5	43
21	Visible-light photocatalytic degradation of methyl orange over spherical activated carbon-supported and Er <sup>3+</sup> :YAlO <sub>3</sub> -doped TiO <sub>2</sub> in a fluidized bed. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 880-887.	3.2	42
22	Cl-based functional group modification MIL-53(Fe) as efficient photocatalysts for degradation of tetracycline hydrochloride. <i>Journal of Hazardous Materials</i> , 2022, 434, 128864.	12.4	41
23	Preparation, characterization and performance of a novel visible light responsive spherical activated carbon-supported and Er <sup>3+</sup> :YFeO <sub>3</sub> -doped TiO <sub>2</sub> photocatalyst. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 301-308.	12.4	40
24	Enhancing chlorophenol biodegradation: Using a co-substrate strategy to resist photo-H <sub>2</sub> O <sub>2</sub> stress in a photocatalytic-biological reactor. <i>Chemical Engineering Journal</i> , 2018, 352, 255-261.	12.7	38
25	Phenol removal and biofilm response in coupling of visible-light-driven photocatalysis and biodegradation: Effect of hydrothermal treatment temperature. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 178-185.	3.9	36
26	Promoting Chlorella photosynthesis and bioresource production using directionally prepared carbon dots with tunable emission. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 195-203.	9.4	36
27	Granulation of activated sludge in a continuous flow airlift reactor by strong drag force. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 289-299.	2.6	35
28	Co-substrate addition accelerated amoxicillin degradation and detoxification by up-regulating degradation related enzymes and promoting cell resistance. <i>Journal of Hazardous Materials</i> , 2020, 394, 122574.	12.4	35
29	Eliminating partial-transformation products and mitigating residual toxicity of amoxicillin through intimately coupled photocatalysis and biodegradation. <i>Chemosphere</i> , 2019, 237, 124491.	8.2	33
30	Enhancing aqueous pollutant photodegradation via a Fermi level matched Z-scheme BiOI/Pt/g-C <sub>3</sub> N <sub>4</sub> photocatalyst: unobstructed photogenerated charge behavior and degradation pathway exploration. <i>Catalysis Science and Technology</i> , 2020, 10, 3324-3333.	4.1	33
31	A facile one-pot synthesis of Er-Al co-doped ZnO nanoparticles with enhanced photocatalytic performance under visible light. <i>Materials Letters</i> , 2015, 143, 312-314.	2.6	32
32	Photocatalytic-induced electron transfer via anode-respiring bacteria (ARB) at an anode that intimately couples ARB and a TiO <sub>2</sub> photocatalyst. <i>Chemical Engineering Journal</i> , 2018, 338, 745-751.	12.7	32
33	Distribution characteristics of extracellular polymeric substances and cells of aerobic granules cultivated in a continuous-flow airlift reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 942-947.	3.2	26
34	Could co-substrate sodium acetate simultaneously promote Chlorella to degrade amoxicillin and produce bioresources?. <i>Journal of Hazardous Materials</i> , 2021, 417, 126147.	12.4	26
35	Nitrogen vacancies induce sustainable redox of iron-cobalt bimetal for efficient peroxymonosulfate activation: Dual-path electron transfer. <i>Chemical Engineering Journal</i> , 2022, 427, 131702.	12.7	25
36	Carbon quantum dots induce in-situ formation of oxygen vacancies and domination of {0 0 1} facets in BiOBr microflower for simultaneous removal of aqueous tetracycline and hexavalent chromium. <i>Chemical Engineering Journal</i> , 2022, 442, 136249.	12.7	25

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37	High-efficiency leaching of valuable metals from waste Li-ion batteries using deep eutectic solvents. <i>Environmental Research</i> , 2022, 212, 113286.	7.5	25
38	Fabrication of oxygen defect-rich pencil-like ZnO nanorods with CDots and Ag co-enhanced photocatalytic activity for tetracycline hydrochloride degradation. <i>Separation and Purification Technology</i> , 2021, 266, 118605.	7.9	24
39	Environment-friendly 0D/2D Ag/CDots/BiOCl heterojunction with enhanced photocatalytic tetracycline degradation and mechanism insight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 411-417.	3.9	21
40	Photocatalytic removal organic matter and bacteria simultaneously from real WWTP effluent with power generation concomitantly: Using an Er Al ZnO photo-anode. <i>Separation and Purification Technology</i> , 2018, 191, 101-107.	7.9	20
41	Simultaneous elimination of amoxicillin and antibiotic resistance genes in activated sludge process: Contributions of easy-to-biodegrade food. <i>Science of the Total Environment</i> , 2021, 764, 142907.	8.0	20
42	High-performance iron-doped molybdenum disulfide photocatalysts enhance peroxymonosulfate activation for water decontamination. <i>Chemical Engineering Journal</i> , 2022, 446, 137380.	12.7	19
43	Visible-light activation of peroxymonosulfate by NiCo <sub>2</sub> O <sub>4</sub> /Bi <sub>24</sub> O <sub>31</sub> Br <sub>10</sub> to accelerate tetracycline degradation. <i>Catalysis Science and Technology</i> , 2021, 11, 2110-2118.	4.1	17
44	Enhanced photocatalytic performance of metal silver and carbon dots co-doped BiOI photocatalysts and mechanism investigation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17516-17529.	5.3	16
45	Comparing dark- and photo-Fenton-like degradation of emerging pollutant over photo-switchable Bi <sub>2</sub> WO <sub>6</sub> /CuFe <sub>2</sub> O <sub>4</sub> : Investigation on dominant reactive oxidation species. <i>Journal of Environmental Sciences</i> , 2021, 106, 147-160.	6.1	16
46	Preparation of sponge carrier supported photocatalyst by self-assembly technique for phenol photodegradation in visible light. <i>Molecular Catalysis</i> , 2017, 432, 1-7.	2.0	11
47	Study on Aeration Optimization and Sewage Treatment Efficiency of a Novel Micro-Pressure Swirl Reactor (MPSR). <i>Water (Switzerland)</i> , 2020, 12, 890.	2.7	11
48	Synthesis of Er <sup>3+</sup> :Al <sub>2</sub> O <sub>3</sub> -doped and rutile-dominant TiO <sub>2</sub> composite with increased responsive wavelength range and enhanced photocatalytic performance under visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2015, 407, 38-46.	4.8	10
49	Optimization of the photocatalyst coating and operating conditions in an intimately coupled photocatalysis and biodegradation reactor: Towards stable and efficient performance. <i>Environmental Research</i> , 2022, 204, 111971.	7.5	10
50	Characteristics and kinetics simulation of controlled-release KMnO <sub>4</sub> for phenol remediation. <i>Water Science and Technology</i> , 2016, 74, 647-654.	2.5	9
51	Identifying the role of reactive oxygen species (ROs) in <i>Fusarium solani</i> spores inactivation. <i>AMB Express</i> , 2016, 6, 81.	3.0	9
52	Construction of Er <sup>3+</sup> :YAlO <sub>3</sub> /RGO/TiO <sub>2</sub> Hybrid Electrode with Enhanced Photoelectrocatalytic Performance in Methylene Blue Degradation Under Visible Light. <i>Photochemistry and Photobiology</i> , 2017, 93, 1170-1177.	2.5	8
53	In situ preparation of BiOCl <sub>0.75</sub> IO <sub>0.25</sub> /g-C <sub>3</sub> N <sub>4</sub> -Cl in reduced graphene hydrogel photoanode for simultaneous removal of tetracycline hydrochloride and hexavalent chromium with efficient electricity generation. <i>Environmental Research</i> , 2022, 212, 113247.	7.5	8
54	Enhanced photo-Fenton degradation of tetracycline hydrochloride by 2, 5-dioxido-1, 4-benzenedicarboxylate-functionalized MIL-100(Fe). <i>Environmental Research</i> , 2022, 212, 113399.	7.5	7

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55	Response to Comment on "Intimate Coupling of Photocatalysis and Biodegradation for Degrading Phenol Using Different Light Types: Visible Light vs UV Light", Environmental Science & Technology, 2015, 49, 13077-13078.	10.0	5
56	Visible-Light-Driven Photocatalytic Fuel Cell with an Ag-TiO <sub>2</sub> Carbon Foam Anode for Simultaneous 4-Chlorophenol Degradation and Energy Recovery. ChemEngineering, 2018, 2, 20.	2.4	5
57	Suspended solid abatement in a conical fluidized bed flocculator. Frontiers of Environmental Science and Engineering, 2013, 7, 127-134.	6.0	4
58	Insights into the Synergistic Effect of Fungi and Bacteria for Reactive Red Decolorization. Journal of Spectroscopy, 2014, 2014, 1-4.	1.3	4
59	NiCo <sub>2</sub> O <sub>4</sub> /BiOCl/Bi <sub>2</sub> O <sub>3</sub> ternary Z-scheme heterojunction enhance peroxydisulfate activation under visible light: Catalyst synthesis and reaction mechanism. Chinese Chemical Letters, 2023, 34, 107503.	9.0	4
60	Radial distribution modeling of liquid-phase phenol concentration in a liquid-solid fluidized bed photoreactor. Water Science and Technology, 2012, 65, 977-982.	2.5	3
61	In situ construction of step-scheme polypyrrole/BiPO <sub>4</sub> heterostructure photocatalysts with enhanced photocatalytic performance. Surfaces and Interfaces, 2022, 30, 101848.	3.0	2
62	Half-wave rectified alternating current electrochemical-assembled devices for high-capacity extraction of Pb <sup>2+</sup> from dilute wastewater. Journal of Cleaner Production, 2022, 363, 132531.	9.3	2