

# Xuefei Zhou

## List of Publications by Year in descending order

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88  
papers

3,966  
citations

116194

36  
h-index

145109

60  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perfluorooctanoic Acid Degradation Using UV $\gamma$ -Persulfate Process: Modeling of the Degradation and Chlorate Formation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 772-781.	4.6	294
2	Biodegradation of Polystyrene by Dark ( <i>Tenebrio obscurus</i> ) and Yellow ( <i>Tenebrio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T 53, 5256-5265.	4.6	201
3	Effect of inoculum sources on the anaerobic digestion of rice straw. <i>Bioresource Technology</i> , 2014, 158, 149-155.	4.8	178
4	The effect of bacterial contamination on the heterotrophic cultivation of <i>Chlorella pyrenoidosa</i> in wastewater from the production of soybean products. <i>Water Research</i> , 2012, 46, 5509-5516.	5.3	149
5	Biodegradation of Polyvinyl Chloride (PVC) in <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) larvae. <i>Environment International</i> , 2020, 145, 106106.	4.8	129
6	Degradation of organic compounds by peracetic acid activated with Co <sub>3</sub> O <sub>4</sub> : A novel advanced oxidation process and organic radical contribution. <i>Chemical Engineering Journal</i> , 2020, 394, 124938.	6.6	127
7	<i>Chlorella pyrenoidosa</i> cultivation using anaerobic digested starch processing wastewater in an airlift circulation photobioreactor. <i>Bioresource Technology</i> , 2014, 170, 538-548.	4.8	120
8	Complexation Enhances Cu(II)-Activated Peroxydisulfate: A Novel Activation Mechanism and Cu(III) Contribution. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11774-11782.	4.6	119
9	Nutrients removal and lipids production by <i>Chlorella pyrenoidosa</i> cultivation using anaerobic digested starch wastewater and alcohol wastewater. <i>Bioresource Technology</i> , 2015, 181, 54-61.	4.8	116
10	Effect of Ca(OH) <sub>2</sub> pretreatment on extruded rice straw anaerobic digestion. <i>Bioresource Technology</i> , 2015, 196, 116-122.	4.8	105
11	Carbamazepine degradation by heterogeneous activation of peroxymonosulfate with lanthanum cobaltite perovskite: Performance, mechanism and toxicity. <i>Journal of Environmental Sciences</i> , 2020, 91, 10-21.	3.2	82
12	Sustainability and carbon neutrality trends for microalgae-based wastewater treatment: A review. <i>Environmental Research</i> , 2022, 209, 112860.	3.7	81
13	Selective Chemical Conversion of Sugars in Aqueous Solutions without Alkali to Lactic Acid Over a Zn-Sn-Beta Lewis Acid-Base Catalyst. <i>Scientific Reports</i> , 2016, 6, 26713.	1.6	80
14	Anaerobic conversion of the hydrothermal liquefaction aqueous phase: fate of organics and intensification with granule activated carbon/ozone pretreatment. <i>Green Chemistry</i> , 2019, 21, 1305-1318.	4.6	79
15	Oxidation of cefalexin by thermally activated persulfate: Kinetics, products, and antibacterial activity change. <i>Journal of Hazardous Materials</i> , 2018, 354, 153-160.	6.5	74
16	Highly efficient activation of peracetic acid by nano-CuO for carbamazepine degradation in wastewater: The significant role of H <sub>2</sub> O <sub>2</sub> and evidence of acetylperoxy radical contribution. <i>Water Research</i> , 2022, 216, 118322.	5.3	69
17	Activation of peracetic acid with cobalt anchored on 2D sandwich-like MXenes (Co@MXenes) for organic contaminant degradation: High efficiency and contribution of acetylperoxyl radicals. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120475.	10.8	68
18	Extraction procedure optimization and the characteristics of dissolved extracellular organic matter (dEOM) and bound extracellular organic matter (bEOM) from <i>Chlorella pyrenoidosa</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 238-246.	2.5	66

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19	Integrated anaerobic digestion and algae cultivation for energy recovery and nutrient supply from post-hydrothermal liquefaction wastewater. <i>Bioresource Technology</i> , 2018, 266, 349-356.	4.8	62
20	Selective Electrocatalytic Reduction of Nitrate to Ammonia with Nickel Phosphide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30458-30467.	4.0	62
21	Amorphous nickel phosphide as a noble metal-free cathode for electrochemical dechlorination. <i>Water Research</i> , 2019, 165, 114930.	5.3	59
22	Strategic enhancement of algal biomass, nutrient uptake and lipid through statistical optimization of nutrient supplementation in coupling <i>Scenedesmus obliquus</i> -like microalgae cultivation and municipal wastewater treatment. <i>Bioresource Technology</i> , 2014, 171, 71-79.	4.8	57
23	The filtration and fouling performance of membranes with different pore sizes in algae harvesting. <i>Science of the Total Environment</i> , 2017, 587-588, 87-93.	3.9	57
24	Biodegradation of polylactic acid by yellow mealworms (larvae of <i>Tenebrio molitor</i> ) via resource recovery: A sustainable approach for waste management. <i>Journal of Hazardous Materials</i> , 2021, 416, 125803.	6.5	57
25	Cu(II)-Catalyzed Transformation of Benzylpenicillin Revisited: The Overlooked Oxidation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4218-4225.	4.6	56
26	Microalgae harvesting by an axial vibration membrane: The mechanism of mitigating membrane fouling. <i>Journal of Membrane Science</i> , 2016, 508, 127-135.	4.1	55
27	Increasing the vibration frequency to mitigate reversible and irreversible membrane fouling using an axial vibration membrane in microalgae harvesting. <i>Journal of Membrane Science</i> , 2017, 529, 215-223.	4.1	55
28	Effect of hydrothermal pretreatment on <i>Miscanthus</i> anaerobic digestion. <i>Bioresource Technology</i> , 2017, 224, 721-726.	4.8	52
29	Effect of temperature on extracellular organic matter (EOM) of <i>Chlorella pyrenoidosa</i> and effect of EOM on irreversible membrane fouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 431-439.	2.5	51
30	Intracellular versus extracellular accumulation of Hexavalent chromium reduction products by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Pollution</i> , 2018, 240, 485-492.	3.7	50
31	Removal of ofloxacin with biofuel production by oleaginous microalgae <i>Scenedesmus obliquus</i> . <i>Bioresource Technology</i> , 2020, 315, 123738.	4.8	48
32	Selective oxidation of tetracyclines by peroxymonosulfate in livestock wastewater: Kinetics and non-radical mechanism. <i>Journal of Hazardous Materials</i> , 2020, 386, 121656.	6.5	42
33	Dewatering of <i>Chlorella pyrenoidosa</i> using diatomite dynamic membrane: Filtration performance, membrane fouling and cake behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 458-466.	2.5	41
34	The impact of temperature on membrane fouling in algae harvesting. <i>Algal Research</i> , 2016, 16, 458-464.	2.4	40
35	Characteristics of dynamic membrane filtration: structure, operation mechanisms, and cost analysis. <i>Science Bulletin</i> , 2014, 59, 247-260.	1.7	38
36	Comparison of axial vibration membrane and submerged aeration membrane in microalgae harvesting. <i>Bioresource Technology</i> , 2016, 208, 178-183.	4.8	38

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37	Pollutant removal mechanisms in a bio-diatomite dynamic membrane reactor for micro-polluted surface water purification. <i>Desalination</i> , 2012, 293, 38-45.	4.0	37
38	Bio-enhanced powder-activated carbon dynamic membrane reactor for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2013, 433, 126-134.	4.1	37
39	Bioremediation of Cr (VI) contaminated groundwater by <i>Geobacter sulfurreducens</i> : Environmental factors and electron transfer flow studies. <i>Chemosphere</i> , 2019, 221, 793-801.	4.2	37
40	Using axial vibration membrane process to mitigate membrane fouling and reject extracellular organic matter in microalgae harvesting. <i>Journal of Membrane Science</i> , 2016, 517, 30-38.	4.1	35
41	Impact of transmembrane pressure (TMP) on membrane fouling in microalgae harvesting with a uniform shearing vibration membrane system. <i>Algal Research</i> , 2018, 35, 613-623.	2.4	35
42	A uniform shearing vibration membrane system reducing membrane fouling in algae harvesting. <i>Journal of Cleaner Production</i> , 2018, 196, 1026-1033.	4.6	35
43	Modeling and prediction for the acute toxicity of pesticide mixtures to the freshwater luminescent bacterium <i>Vibrio qinghaiensis</i> sp.-Q67. <i>Journal of Environmental Sciences</i> , 2010, 22, 433-440.	3.2	33
44	Solvent isotope effect and mechanism for the production of hydrogen and lactic acid from glycerol under hydrothermal alkaline conditions. <i>Green Chemistry</i> , 2012, 14, 3285.	4.6	33
45	Unexpected Role of Nitrite in Promoting Transformation of Sulfonamide Antibiotics by Peracetic Acid: Reactive Nitrogen Species Contribution and Harmful Disinfection Byproduct Formation Potential. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1300-1309.	4.6	33
46	Activation of Peracetic Acid with Lanthanum Cobaltite Perovskite for Sulfamethoxazole Degradation under a Neutral pH: The Contribution of Organic Radicals. <i>Molecules</i> , 2020, 25, 2725.	1.7	32
47	Multifunctional Edge-Activated Carbon Nitride Nanosheet-Wrapped Polydimethylsiloxane Sponge Skeleton for Selective Oil Absorption and Photocatalysis. <i>ACS Omega</i> , 2020, 5, 4181-4190.	1.6	30
48	Hydrogels for the removal of the methylene blue dye from wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2665-2685.	8.3	30
49	The comparison between vibration and aeration on the membrane performance in algae harvesting. <i>Journal of Membrane Science</i> , 2019, 592, 117390.	4.1	29
50	Mn <sub>3</sub> O <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub> composite to activate peroxymonosulfate for organic pollutants degradation: Electron transfer and structure-dependence. <i>Journal of Hazardous Materials</i> , 2022, 434, 128818.	6.5	28
51	Interfacial thermodynamics and kinetics of sorption of diclofenac on prepared high performance flower-like MoS <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , 2016, 481, 210-219.	5.0	27
52	Fabrication of a Novel SnO <sub>2</sub> Photonic Crystal Sensitized by CdS Quantum Dots and Its Enhanced Photocatalysis under Visible Light Irradiation. <i>Electrochimica Acta</i> , 2014, 121, 352-360.	2.6	26
53	Continuous treatment of hydrothermal liquefaction wastewater in an anaerobic biofilm reactor: Potential role of granular activated carbon. <i>Journal of Cleaner Production</i> , 2020, 276, 122836.	4.6	26
54	Selective Hydrogenolysis of Erythritol over Ir <sup>~</sup> ReO <sub>x</sub> /Rutile- $\alpha$ -TiO <sub>2</sub> Catalyst. <i>ChemSusChem</i> , 2021, 14, 642-654.	3.6	26

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55	Enhancing anaerobic digestion of pharmaceutical industries wastewater with the composite addition of zero valent iron (ZVI) and granular activated carbon (GAC). <i>Bioresource Technology</i> , 2022, 346, 126566.	4.8	24
56	Improve the biodegradability of post-hydrothermal liquefaction wastewater with ozone: conversion of phenols and N-heterocyclic compounds. <i>Water Science and Technology</i> , 2018, 2017, 248-255.	1.2	23
57	Rapid oxidation of histamine H2-receptor antagonists by peroxymonosulfate during water treatment: Kinetics, products, and toxicity evaluation. <i>Water Research</i> , 2020, 185, 116278.	5.3	23
58	Efficient activation of peroxymonosulfate by copper supported on polyurethane foam for contaminant degradation: Synergistic effect and mechanism. <i>Chemical Engineering Journal</i> , 2022, 427, 131741.	6.6	23
59	Pretreatment of micro-polluted surface water with a biologically enhanced PACâ€“diatomite dynamic membrane reactor to produce drinking water. <i>Desalination and Water Treatment</i> , 2012, 40, 84-91.	1.0	19
60	Partitioning of Fluoroquinolones on Wastewater Sludge. <i>Clean - Soil, Air, Water</i> , 2013, 41, 820-827.	0.7	19
61	Multi-dimensional in-depth dissection the algae-related membrane fouling in heterotrophic microalgae harvesting: Deposition dynamics, algae cake formation, and interaction force analysis. <i>Journal of Membrane Science</i> , 2021, 635, 119501.	4.1	17
62	Effect of temperature on the conversion ratio of glucose to <i>Chlorella pyrenoidosa</i> cells: Reducing the cost of cultivation. <i>Algal Research</i> , 2015, 12, 431-435.	2.4	16
63	Synergistic activation of peroxydisulfate with magnetite and copper ion at neutral condition. <i>Water Research</i> , 2020, 186, 116371.	5.3	16
64	Simultaneous molybdate (Mo(VI)) recovery and hazardous ions immobilization via nanoscale zerovalent iron. <i>Journal of Hazardous Materials</i> , 2018, 344, 698-706.	6.5	15
65	Impacts of molybdate and ferric chloride on biohythane production through two-stage anaerobic digestion of sulfate-rich hydrolyzed tofu processing residue. <i>Bioresource Technology</i> , 2022, 355, 127239.	4.8	15
66	Interactions between peracetic acid and TiO2 nanoparticle in wastewater disinfection: Mechanisms and implications. <i>Chemical Engineering Journal</i> , 2021, 412, 128703.	6.6	14
67	Effects of hydrothermal pretreatment and bamboo hydrochar addition on anaerobic digestion of tofu residue for biogas production. <i>Bioresource Technology</i> , 2021, 336, 125279.	4.8	14
68	Evaluation of the performance of different membrane materials for microalgae cultivation on attached biofilm reactors. <i>RSC Advances</i> , 2022, 12, 1451-1459.	1.7	14
69	Gravity filtration performances of the bio-diatomite dynamic membrane reactor for slightly polluted surface water purification. <i>Water Science and Technology</i> , 2012, 66, 1139-1146.	1.2	11
70	Characterization of dissolved organic matter in a dynamic membrane bioreactor for wastewater treatment. <i>Science Bulletin</i> , 2013, 58, 1717-1724.	1.7	10
71	Membrane technologies in toilet urine treatment for toilet urine resource utilization: a review. <i>RSC Advances</i> , 2021, 11, 35525-35535.	1.7	10
72	Performance enhancement and fouling alleviation by controlling transmembrane pressure in a vibration membrane system for algae separation. <i>Journal of Membrane Science</i> , 2022, 647, 120252.	4.1	10

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73	Transport and partitioning of metals in river networks of a plain area with sedimentary resuspension and implications for downstream lakes. <i>Environmental Pollution</i> , 2022, 294, 118668.	3.7	9
74	Performance and properties of coking nanofiltration concentrate treatment and membrane fouling mitigation by an Fe( <i>ii</i> )/persulfate-coagulation-ultrafiltration process. <i>RSC Advances</i> , 2019, 9, 15277-15287.	1.7	7
75	The interaction between microalgae and membrane surface in filtration by uniform shearing vibration membrane. <i>Algal Research</i> , 2020, 50, 102012.	2.4	7
76	Application of a Novel Semiconductor Catalyst, CT, in Degradation of Aromatic Pollutants in Wastewater: Phenol and Catechol. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-10.	1.5	4
77	CFD Study on the Ventilation Effectiveness in a Public Toilet under Three Ventilation Methods. <i>Energies</i> , 2021, 14, 8379.	1.6	4
78	Occurrence and Removal of Fluoroquinolone Antibiotics in a Sewage Treatment Plant in Shanghai, China. , 2009, , .		3
79	Dynamics and Numerical Simulation of Contaminant Diffusion for a Non-Flushing Ecological Toilet. <i>Energies</i> , 2021, 14, 7570.	1.6	3
80	Novel Three-Dimensional Electrochemical Reactor with P and N-Codoped Activated Carbon for Water Decontamination: High Efficiency and Contribution of Singlet Oxygen. <i>ACS ES&amp;T Water</i> , 2022, 2, 721-729.	2.3	3
81	The Health Risk Assessment of Heavy Metals in the Circumstance of Dust in Shanghai Urban Parks. , 2009, , .		1
82	Optimization of Solid Phase Extraction (SPE) for the Determination of Synthetic Musks in Water by Gas Chromatography-Mass Spectrometry (GC-MS). , 2009, , .		1
83	Highly Efficient, Ultra-Low Energy Consumption Process for Phenol Wastewater Treatment with Ultra-Low Carbon Emission. <i>Clean - Soil, Air, Water</i> , 2013, 41, 865-871.	0.7	1
84	Phenol Removal by a Novel Non-Photo-Dependent Semiconductor Catalyst in a Pilot-Scaled Study: Effects of Initial Phenol Concentration, Light, and Catalyst Loading. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	1.5	1
85	Construction and application of the <i>Synechocystis</i> sp. PCC6803-ftnA in microbial contamination control in a coupled cultivation and wastewater treatment. <i>Journal of Environmental Sciences</i> , 2016, 46, 174-181.	3.2	1
86	Biological Reduction of Ferrihydrite with Silica Addition: Rates and Controlling Mechanisms. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2778-2791.	1.2	1
87	Characteristics of the Bio-enhanced powder activated carbon dynamic membrane reactor for municipal wastewater treatment. , 2011, , .		0
88	Conversion of microalgae into acetic acid by hydrothermal reaction. , 2011, , .		0