

# Xuefei Zhou

## List of Publications by Year in descending order

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88  
papers

3,966  
citations

101543

36  
h-index

128289

60  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3732  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	12.7	23
2	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.	7.5	9
3	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.	9.6	24
4	Evaluation of the performance of different membrane materials for microalgae cultivation on attached biofilm reactors. <i>RSC Advances</i> , 2022, 12, 1451-1459.	3.6	14
5	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.	8.2	10
6	Sustainability and carbon neutrality trends for microalgae-based wastewater treatment: A review. <i>Environmental Research</i> , 2022, 209, 112860.	7.5	81
7	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.	12.4	28
8	Hydrogels for the removal of the methylene blue dye from wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2665-2685.	16.2	30
9	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.	11.3	69
10	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.	10.0	33
11	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.	4.6	3
12	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.	9.6	15
13	Selective Hydrogenolysis of Erythritol over Ir <sup>+</sup> ReO <sub>2</sub> /Rutile <sup>+</sup> TiO <sub>2</sub> Catalyst. <i>ChemSusChem</i> , 2021, 14, 642-654.	6.8	26
14	Interactions between peracetic acid and TiO <sub>2</sub> nanoparticle in wastewater disinfection: Mechanisms and implications. <i>Chemical Engineering Journal</i> , 2021, 412, 128703.	12.7	14
15	Selective Electrocatalytic Reduction of Nitrate to Ammonia with Nickel Phosphide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30458-30467.	8.0	62
16	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.	12.4	57
17	Effects of hydrothermal pretreatment and bamboo hydrochar addition on anaerobic digestion of tofu residue for biogas production. <i>Bioresource Technology</i> , 2021, 336, 125279.	9.6	14
18	Biological Reduction of Ferrihydrite with Silica Addition: Rates and Controlling Mechanisms. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2778-2791.	2.7	1

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19	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.	8.2	17
20	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.	20.2	68
21	Membrane technologies in toilet urine treatment for toilet urine resource utilization: a review. <i>RSC Advances</i> , 2021, 11, 35525-35535.	3.6	10
22	Dynamics and Numerical Simulation of Contaminant Diffusion for a Non-Flushing Ecological Toilet. <i>Energies</i> , 2021, 14, 7570.	3.1	3
23	CFD Study on the Ventilation Effectiveness in a Public Toilet under Three Ventilation Methods. <i>Energies</i> , 2021, 14, 8379.	3.1	4
24	Selective oxidation of tetracyclines by peroxymonosulfate in livestock wastewater: Kinetics and non-radical mechanism. <i>Journal of Hazardous Materials</i> , 2020, 386, 121656.	12.4	42
25	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.	9.3	26
26	Biodegradation of Polyvinyl Chloride (PVC) in <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) larvae. <i>Environment International</i> , 2020, 145, 106106.	10.0	129
27	Synergistic activation of peroxydisulfate with magnetite and copper ion at neutral condition. <i>Water Research</i> , 2020, 186, 116371.	11.3	16
28	The interaction between microalgae and membrane surface in filtration by uniform shearing vibration membrane. <i>Algal Research</i> , 2020, 50, 102012.	4.6	7
29	Rapid oxidation of histamine H2-receptor antagonists by peroxymonosulfate during water treatment: Kinetics, products, and toxicity evaluation. <i>Water Research</i> , 2020, 185, 116278.	11.3	23
30	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.	3.8	32
31	Removal of ofloxacin with biofuel production by oleaginous microalgae <i>Scenedesmus obliquus</i> . <i>Bioresource Technology</i> , 2020, 315, 123738.	9.6	48
32	Multifunctional Edge-Activated Carbon Nitride Nanosheet-Wrapped Polydimethylsiloxane Sponge Skeleton for Selective Oil Absorption and Photocatalysis. <i>ACS Omega</i> , 2020, 5, 4181-4190.	3.5	30
33	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.	6.1	82
34	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.	12.7	127
35	Amorphous nickel phosphide as a noble metal-free cathode for electrochemical dechlorination. <i>Water Research</i> , 2019, 165, 114930.	11.3	59
36	The comparison between vibration and aeration on the membrane performance in algae harvesting. <i>Journal of Membrane Science</i> , 2019, 592, 117390.	8.2	29

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37	Complexation Enhances Cu(II)-Activated Peroxydisulfate: A Novel Activation Mechanism and Cu(III) Contribution. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11774-11782.	10.0	119
38	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.	9.0	79
39	Performance and properties of coking nanofiltration concentrate treatment and membrane fouling mitigation by an Fe(II)/persulfate-coagulation-ultrafiltration process. <i>RSC Advances</i> , 2019, 9, 15277-15287.	3.6	7
40	Biodegradation of Polystyrene by Dark ( <i>Tenebrio obscurus</i> ) and Yellow ( <i>Tenebrio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T 53, 5256-5265.	10.0	201
41	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.	8.2	37
42	Oxidation of cefalexin by thermally activated persulfate: Kinetics, products, and antibacterial activity change. <i>Journal of Hazardous Materials</i> , 2018, 354, 153-160.	12.4	74
43	Simultaneous molybdate (Mo(VI)) recovery and hazardous ions immobilization via nanoscale zerovalent iron. <i>Journal of Hazardous Materials</i> , 2018, 344, 698-706.	12.4	15
44	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.	4.6	35
45	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.	2.5	23
46	Intracellular versus extracellular accumulation of Hexavalent chromium reduction products by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Pollution</i> , 2018, 240, 485-492.	7.5	50
47	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.	9.6	62
48	A uniform shearing vibration membrane system reducing membrane fouling in algae harvesting. <i>Journal of Cleaner Production</i> , 2018, 196, 1026-1033.	9.3	35
49	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.	8.0	57
50	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.	8.2	55
51	Effect of hydrothermal pretreatment on <i>Miscanthus</i> anaerobic digestion. <i>Bioresource Technology</i> , 2017, 224, 721-726.	9.6	52
52	Microalgae harvesting by an axial vibration membrane: The mechanism of mitigating membrane fouling. <i>Journal of Membrane Science</i> , 2016, 508, 127-135.	8.2	55
53	The impact of temperature on membrane fouling in algae harvesting. <i>Algal Research</i> , 2016, 16, 458-464.	4.6	40
54	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.	8.2	35

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55	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.	9.4	27
56	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.	3.3	80
57	Comparison of axial vibration membrane and submerged aeration membrane in microalgae harvesting. <i>Bioresource Technology</i> , 2016, 208, 178-183.	9.6	38
58	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.	6.1	1
59	Perfluorooctanoic Acid Degradation Using UV-Persulfate Process: Modeling of the Degradation and Chlorate Formation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 772-781.	10.0	294
60	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.	9.6	116
61	Effect of Ca(OH) <sub>2</sub> pretreatment on extruded rice straw anaerobic digestion. <i>Bioresource Technology</i> , 2015, 196, 116-122.	9.6	105
62	Cu(II)-Catalyzed Transformation of Benzylpenicillin Revisited: The Overlooked Oxidation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4218-4225.	10.0	56
63	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.	5.0	51
64	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.	4.6	16
65	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.	5.0	66
66	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.	2.7	4
67	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.	2.7	1
68	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.	5.0	41
69	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.	5.2	26
70	Effect of inoculum sources on the anaerobic digestion of rice straw. <i>Bioresource Technology</i> , 2014, 158, 149-155.	9.6	178
71	Characteristics of dynamic membrane filtration: structure, operation mechanisms, and cost analysis. <i>Science Bulletin</i> , 2014, 59, 247-260.	1.7	38
72	<i>Chlorella pyrenoidosa</i> cultivation using anaerobic digested starch processing wastewater in an airlift circulation photobioreactor. <i>Bioresource Technology</i> , 2014, 170, 538-548.	9.6	120

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73	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.	9.6	57
74	Characterization of dissolved organic matter in a dynamic membrane bioreactor for wastewater treatment. <i>Science Bulletin</i> , 2013, 58, 1717-1724.	1.7	10
75	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.	1.1	1
76	Partitioning of Fluoroquinolones on Wastewater Sludge. <i>Clean - Soil, Air, Water</i> , 2013, 41, 820-827.	1.1	19
77	Bio-enhanced powder-activated carbon dynamic membrane reactor for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2013, 433, 126-134.	8.2	37
78	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.	2.5	11
79	Pretreatment of micro-polluted surface water with a biologically enhanced PAC-diatomite dynamic membrane reactor to produce drinking water. <i>Desalination and Water Treatment</i> , 2012, 40, 84-91.	1.0	19
80	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.	11.3	149
81	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.	9.0	33
82	Pollutant removal mechanisms in a bio-diatomite dynamic membrane reactor for micro-polluted surface water purification. <i>Desalination</i> , 2012, 293, 38-45.	8.2	37
83	Characteristics of the Bio-enhanced powder activated carbon dynamic membrane reactor for municipal wastewater treatment. , 2011, , .		0
84	Conversion of microalgae into acetic acid by hydrothermal reaction. , 2011, , .		0
85	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.	6.1	33
86	The Health Risk Assessment of Heavy Metals in the Circumstance of Dust in Shanghai Urban Parks. , 2009, , .		1
87	Occurrence and Removal of Fluoroquinolone Antibiotics in a Sewage Treatment Plant in Shanghai, China. , 2009, , .		3
88	Optimization of Solid Phase Extraction (SPE) for the Determination of Synthetic Musks in Water by Gas Chromatography-Mass Spectrometry (GC-MS). , 2009, , .		1