

Zhenghua Zhang

List of Publications by Year in descending order

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73
papers

3,098
citations

125106

35
h-index

190340

53
g-index

75
all docs

75
docs citations

75
times ranked

2507
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic mechanism of combined ferrate and ultrafiltration process for shale gas wastewater treatment. <i>Journal of Membrane Science</i> , 2022, 641, 119921.	4.1	20
2	Potential application of machine learning for exploring adsorption mechanisms of pharmaceuticals onto biochars. <i>Chemosphere</i> , 2022, 287, 132203.	4.2	29
3	Ti3C2/W18O49 hybrid membrane with visible-light-driven photocatalytic ability for selective dye separation. <i>Separation and Purification Technology</i> , 2022, 282, 120145.	3.9	7
4	Gravity-driven layered double hydroxide nanosheet membrane activated peroxymonosulfate system for micropollutant degradation. <i>Journal of Hazardous Materials</i> , 2022, 425, 127988.	6.5	41
5	Exploring the fate of dissolved organic matter at the molecular level in the reactive electrochemical ceramic membrane system using fluorescence spectroscopy and FT-ICR MS. <i>Water Research</i> , 2022, 210, 117979.	5.3	30
6	Honeycomb-like holey Co3O4 membrane triggered peroxymonosulfate activation for rapid degradation of organic contaminants. <i>Science of the Total Environment</i> , 2022, 814, 152698.	3.9	36
7	Two-dimensional nanoporous and lamellar membranes for water purification: Reality or a myth?. <i>Chemical Engineering Journal</i> , 2022, 432, 134335.	6.6	38
8	Exploring the potential application of hybrid permonosulfate/reactive electrochemical ceramic membrane on treating humic acid-dominant wastewater. <i>Separation and Purification Technology</i> , 2022, 286, 120513.	3.9	14
9	Ultrahigh-permeance functionalized boron nitride membrane for nanoconfined heterogeneous catalysis. <i>Chem Catalysis</i> , 2022, 2, 550-562.	2.9	23
10	Confined heterogeneous catalysis by boron nitride-Co3O4 nanosheet cluster for peroxymonosulfate oxidation toward ranitidine removal. <i>Chemical Engineering Journal</i> , 2022, 435, 135126.	6.6	45
11	Reactive electrochemical ceramic membrane for effective removal of high concentration humic acid: Insights of different performance and mechanisms. <i>Journal of Membrane Science</i> , 2022, 651, 120460.	4.1	19
12	Exploring potential machine learning application based on big data for prediction of wastewater quality from different full-scale wastewater treatment plants. <i>Science of the Total Environment</i> , 2022, 832, 154930.	3.9	32
13	Three-dimensional ordered mesoporous Co3O4/peroxymonosulfate triggered nanoconfined heterogeneous catalysis for rapid removal of ranitidine in aqueous solution. <i>Chemical Engineering Journal</i> , 2022, 443, 136495.	6.6	34
14	Ti4O7 reactive electrochemical membrane for humic acid removal: Insights of electrosorption and electrooxidation. <i>Separation and Purification Technology</i> , 2022, 293, 121112.	3.9	16
15	In-Situ Sludge Reduction in Membrane-Controlled Anoxic-Oxic-Anoxic Bioreactor: Performance and Mechanism. <i>Membranes</i> , 2022, 12, 659.	1.4	1
16	Angstrom-confined catalytic water purification within Co-TiOx laminar membrane nanochannels. <i>Nature Communications</i> , 2022, 13, .	5.8	97
17	Laminar membranes assembled by ultrathin cobalt-copper oxide nanosheets for nanoconfined catalytic degradation of contaminants. <i>Chemical Engineering Journal</i> , 2022, 449, 137811.	6.6	29
18	Elucidating the impacts of intermittent in-situ ozonation in a ceramic membrane bioreactor: Micropollutant removal, microbial community evolution and fouling mechanisms. <i>Journal of Hazardous Materials</i> , 2021, 402, 123730.	6.5	36

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19	Catalytic degradation of ranitidine using novel magnetic Ti ₃ C ₂ -based MXene nanosheets modified with nanoscale zero-valent iron particles. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119720.	10.8	75
20	Characterization of dissolved organic matter for understanding the adsorption on nanomaterials in aquatic environment: A review. <i>Chemosphere</i> , 2021, 269, 128690.	4.2	25
21	Rapid and long-lasting acceleration of zero-valent iron nanoparticles@Ti ₃ C ₂ -based MXene/peroxymonosulfate oxidation with bi-active centers toward ranitidine removal. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19817-19833.	5.2	53
22	Novel MoS ₂ /NOMC electrodes with enhanced capacitive deionization performances. <i>Chemical Engineering Journal</i> , 2021, 409, 128200.	6.6	53
23	Fluorescence moieties as a surrogate for residual chlorine in three drinking water networks. <i>Chemical Engineering Journal</i> , 2021, 411, 128519.	6.6	13
24	A year-long cyclic pattern of dissolved organic matter in the tap water of a metropolitan city revealed by fluorescence spectroscopy. <i>Science of the Total Environment</i> , 2021, 771, 144850.	3.9	8
25	Determining the leading sources of N-nitrosamines and dissolved organic matter in four reservoirs in Southern China. <i>Science of the Total Environment</i> , 2021, 771, 145409.	3.9	12
26	Photocatalytic degradation of ranitidine and reduction of nitrosamine dimethylamine formation potential over MXene@Ti ₃ C ₂ /MoS ₂ under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2021, 413, 125424.	6.5	76
27	Occurrence and fate of N-nitrosamines in three full-scale drinking water treatment systems with different treatment trains. <i>Science of the Total Environment</i> , 2021, 783, 146982.	3.9	11
28	Ceramic membrane technology for water and wastewater treatment: A critical review of performance, full-scale applications, membrane fouling and prospects. <i>Chemical Engineering Journal</i> , 2021, 418, 129481.	6.6	217
29	Understanding the role of in-situ ozonation in Fe(II)-dosed membrane bioreactor (MBR) for membrane fouling mitigation. <i>Journal of Membrane Science</i> , 2021, 633, 119400.	4.1	15
30	Allogenic organic matter fouling alleviation in membrane distillation by peroxymonosulfate (PMS): Role of PMS concentration and activation temperature. <i>Desalination</i> , 2021, 516, 115225.	4.0	33
31	Polysaccharide-derived biopolymeric nanomaterials for wastewater treatment. , 2021, , 447-469.		6
32	Synergistic effects of combining ozonation, ceramic membrane filtration and biologically active carbon filtration for wastewater reclamation. <i>Journal of Hazardous Materials</i> , 2020, 382, 121091.	6.5	40
33	MoS ₂ /RGO composites for photocatalytic degradation of ranitidine and elimination of NDMA formation potential under visible light. <i>Chemical Engineering Journal</i> , 2020, 383, 123084.	6.6	64
34	Capacitive deionization with nitrogen-doped highly ordered mesoporous carbon electrodes. <i>Chemical Engineering Journal</i> , 2020, 380, 122514.	6.6	122
35	TiO ₂ -based catalysts for photocatalytic reduction of aqueous oxyanions: State-of-the-art and future prospects. <i>Environment International</i> , 2020, 136, 105453.	4.8	68
36	Powdered activated carbon @ Membrane bioreactor (PAC-MBR): Impacts of high PAC concentration on micropollutant removal and microbial communities. <i>Science of the Total Environment</i> , 2020, 745, 141090.	3.9	45

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37	Evaluating the impacts of a high concentration of powdered activated carbon in a ceramic membrane bioreactor: Mixed liquor properties, hydraulic performance and fouling mechanism. <i>Journal of Membrane Science</i> , 2020, 616, 118561.	4.1	17
38	Zâ€s scheme photocatalytic production of hydrogen peroxide over Bi ₄ O ₅ Br ₂ /g-C ₃ N ₄ heterostructure under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119251.	10.8	163
39	Electrochemical membrane bioreactors: State-of-the-art and future prospects. <i>Science of the Total Environment</i> , 2020, 741, 140233.	3.9	44
40	Seasonal occurrence of N-nitrosamines and their association with dissolved organic matter in full-scale drinking water systems: Determination by LC-MS and EEM-PARAFAC. <i>Water Research</i> , 2020, 183, 116096.	5.3	36
41	Exploring the relative changes in dissolved organic matter for assessing the water quality of full-scale drinking water treatment plants using a fluorescence ratio approach. <i>Water Research</i> , 2020, 183, 116125.	5.3	47
42	Solar driven self-sustainable photoelectrochemical bacteria inactivation in scale-up reactor utilizing large-scale fabricable Ti/MoS ₂ /MoO _x photoanode. <i>Journal of Hazardous Materials</i> , 2020, 392, 122292.	6.5	32
43	Fate and role of fluorescence moieties in extracellular polymeric substances during biological wastewater treatment: A review. <i>Science of the Total Environment</i> , 2020, 718, 137291.	3.9	45
44	Nutrients removal in membrane bioreactors for wastewater treatment. , 2020, , 163-180.		1
45	Capacitive deionization with MoS ₂ /g-C ₃ N ₄ electrodes. <i>Desalination</i> , 2020, 479, 114348.	4.0	63
46	Coupling ferrate pretreatment and in-situ ozonation/ceramic membrane filtration for wastewater reclamation: Water quality and membrane fouling. <i>Journal of Membrane Science</i> , 2019, 590, 117310.	4.1	36
47	Fenton cleaning strategy for ceramic membrane fouling in wastewater treatment. <i>Journal of Environmental Sciences</i> , 2019, 85, 189-199.	3.2	21
48	Removal of calcium ions from water by selective electrosorption using target-ion specific nanocomposite electrode. <i>Water Research</i> , 2019, 160, 445-453.	5.3	57
49	Fe(II)-dosed ceramic membrane bioreactor for wastewater treatment: Nutrient removal, microbial community and membrane fouling analysis. <i>Science of the Total Environment</i> , 2019, 664, 116-126.	3.9	48
50	A comparative study of ferrous, ferric and ferrate pretreatment for ceramic membrane fouling alleviation in reclaimed water treatment. <i>Separation and Purification Technology</i> , 2019, 217, 118-127.	3.9	30
51	Photo-electrochemical oxidation of hypophosphite and phosphorous recovery by UV/Fe ²⁺ /peroxydisulfate with electrochemical process. <i>Chemical Engineering Journal</i> , 2019, 359, 1075-1085.	6.6	14
52	Capacitive deionization using commercial activated carbon fiber decorated with polyaniline. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 247-255.	5.0	63
53	Comparison of long-term ceramic membrane bioreactors without and with in-situ ozonation in wastewater treatment: Membrane fouling, effluent quality and microbial community. <i>Science of the Total Environment</i> , 2019, 652, 788-799.	3.9	47
54	Coupling in-situ ozonation with ferric chloride addition for ceramic ultrafiltration membrane fouling mitigation in wastewater treatment: Quantitative fouling analysis. <i>Journal of Membrane Science</i> , 2018, 555, 307-317.	4.1	33

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55	Integration of ferrate (VI) pretreatment and ceramic membrane reactor for membrane fouling mitigation in reclaimed water treatment. <i>Journal of Membrane Science</i> , 2018, 552, 315-325.	4.1	38
56	Ligand-promoted reductive cleaning of iron-fouled membranes from submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2018, 545, 126-132.	4.1	3
57	Does pre-ozonation or in-situ ozonation really mitigate the protein-based ceramic membrane fouling in the integrated process of ozonation coupled with ceramic membrane filtration?. <i>Journal of Membrane Science</i> , 2018, 548, 254-262.	4.1	61
58	Synergistic effect of ferrate (VI)-ozone integrated pretreatment on the improvement of water quality and fouling alleviation of ceramic UF membrane in reclaimed water treatment. <i>Journal of Membrane Science</i> , 2018, 567, 216-227.	4.1	33
59	Ti4O7/g-C3N4 for Visible Light Photocatalytic Oxidation of Hypophosphite: Effect of Mass Ratio of Ti4O7/g-C3N4. <i>Frontiers in Chemistry</i> , 2018, 6, 313.	1.8	13
60	Ti4O7/g-C3N4 Visible Light Photocatalytic Performance on Hypophosphite Oxidation: Effect of Annealing Temperature. <i>Frontiers in Chemistry</i> , 2018, 6, 37.	1.8	16
61	New insight into the effect of mixed liquor properties changed by pre-ozonation on ceramic UF membrane fouling in wastewater treatment. <i>Chemical Engineering Journal</i> , 2017, 314, 670-680.	6.6	53
62	A comparative study of pre-ozonation and in-situ ozonation on mitigation of ceramic UF membrane fouling caused by alginate. <i>Journal of Membrane Science</i> , 2017, 538, 50-57.	4.1	45
63	Double-win effects of in-situ ozonation on improved filterability of mixed liquor and ceramic UF membrane fouling mitigation in wastewater treatment?. <i>Journal of Membrane Science</i> , 2017, 533, 112-120.	4.1	42
64	Impact of polymeric membrane breakage on drinking water quality and an online detection method of the breakage. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 1126-1132.	0.9	0
65	Effect of pre-ozonation on mitigation of ceramic UF membrane fouling caused by algal extracellular organic matters. <i>Chemical Engineering Journal</i> , 2016, 294, 157-166.	6.6	106
66	Effect of in-situ ozonation on ceramic UF membrane fouling mitigation in algal-rich water treatment. <i>Journal of Membrane Science</i> , 2016, 498, 116-124.	4.1	97
67	Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. <i>Water Research</i> , 2015, 69, 210-222.	5.3	105
68	Ascorbic acid-mediated reductive cleaning of iron-fouled membranes from submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2015, 477, 194-202.	4.1	15
69	Cleaning strategies for iron-fouled membranes from submerged membrane bioreactor treatment of wastewaters. <i>Journal of Membrane Science</i> , 2015, 475, 9-21.	4.1	30
70	Fabrication and characterization of novel SiO2-PAMPS/PSF hybrid ultrafiltration membrane with high water flux. <i>Desalination</i> , 2012, 297, 59-71.	4.0	30
71	Fabrication of polysulfone ultrafiltration membranes of a density gradient cross section with good anti-pressure stability and relatively high water flux. <i>Desalination</i> , 2011, 269, 239-248.	4.0	50
72	Study on removal of organic matters in water by PVA modified PA-TFC nanofiltration membrane. <i>Desalination and Water Treatment</i> , 2011, 34, 75-80.	1.0	6

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73	Effect of zero shear viscosity of the casting solution on the morphology and permeability of polysulfone membrane prepared via the phase-inversion process. <i>Desalination</i> , 2010, 260, 43-50.	4.0	75