

Bin Liu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,488
citations

361296
20
h-index

454834
30
g-index

30
all docs

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docs citations

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times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferrous iron/peroxymonosulfate oxidation as a pretreatment for ceramic ultrafiltration membrane: Control of natural organic matter fouling and degradation of atrazine. <i>Water Research</i> , 2017, 113, 32-41.	5.3	173
2	Effects of pre-ozonation on the ultrafiltration of different natural organic matter (NOM) fractions: Membrane fouling mitigation, prediction and mechanism. <i>Journal of Membrane Science</i> , 2016, 505, 15-25.	4.1	142
3	<i>Microcystis aeruginosa</i> -laden water treatment using enhanced coagulation by persulfate/Fe(II), ozone and permanganate: Comparison of the simultaneous and successive oxidant dosing strategy. <i>Water Research</i> , 2017, 125, 72-80.	5.3	113
4	Membrane Fouling and Rejection of Organics during Algae-Laden Water Treatment Using Ultrafiltration: A Comparison between in Situ Pretreatment with Fe(II)/Persulfate and Ozone. <i>Environmental Science & Technology</i> , 2018, 52, 765-774.	4.6	111
5	Recent Advances and Applications Toward Emerging Lithium-Sulfur Batteries: Working Principles and Opportunities. <i>Energy and Environmental Materials</i> , 2022, 5, 777-799.	7.3	106
6	Algae-laden water treatment using ultrafiltration: Individual and combined fouling effects of cells, debris, extracellular and intracellular organic matter. <i>Journal of Membrane Science</i> , 2017, 528, 178-186.	4.1	91
7	<i>Microcystis aeruginosa</i> -laden surface water treatment using ultrafiltration: Membrane fouling, cell integrity and extracellular organic matter rejection. <i>Water Research</i> , 2017, 112, 83-92.	5.3	78
8	Role of backwash water composition in alleviating ultrafiltration membrane fouling by sodium alginate and the effectiveness of salt backwashing. <i>Journal of Membrane Science</i> , 2016, 499, 429-441.	4.1	65
9	Ultrafiltration pre-oxidation by boron-doped diamond anode for algae-laden water treatment: membrane fouling mitigation, interface characteristics and cake layer organic release. <i>Water Research</i> , 2020, 187, 116435.	5.3	65
10	Fabrication of Mn oxide incorporated ceramic membranes for membrane fouling control and enhanced catalytic ozonation of p-chloronitrobenzene. <i>Chemical Engineering Journal</i> , 2017, 308, 1010-1020.	6.6	62
11	Control of ultrafiltration membrane fouling caused by <i>Microcystis</i> cells with permanganate preoxidation: Significance of in situ formed manganese dioxide. <i>Chemical Engineering Journal</i> , 2015, 279, 56-65.	6.6	61
12	Control of ultrafiltration membrane fouling caused by algal extracellular organic matter (EOM) using enhanced Al coagulation with permanganate. <i>Separation and Purification Technology</i> , 2017, 172, 51-58.	3.9	54
13	Improving the performance of loose nanofiltration membranes by poly-dopamine/zwitterionic polymer coating with hydroxyl radical activation. <i>Separation and Purification Technology</i> , 2020, 238, 116412.	3.9	49
14	Effect of operation parameters on the flux stabilization of gravity-driven membrane (GDM) filtration system for decentralized water supply. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16771-16780.	2.7	39
15	Novel Prussian blue analogues@MXene nanocomposite as heterogeneous activator of peroxymonosulfate for the degradation of coumarin: The nonnegligible role of Lewis-acid sites on MXene. <i>Chemical Engineering Journal</i> , 2021, 416, 128071.	6.6	38
16	Separation performance of ultrafiltration during the treatment of algae-laden water in the presence of an anionic surfactant. <i>Separation and Purification Technology</i> , 2022, 281, 119894.	3.9	38
17	Electrochemical degradation of ciprofloxacin on BDD anode using a differential column batch reactor: mechanisms, kinetics and pathways. <i>Environmental Science and Pollution Research</i> , 2019, 26, 17740-17750.	2.7	33
18	Comparison of evaluation methods for <i>Microcystis</i> cell breakage based on dissolved organic carbon release, potassium release and flow cytometry. <i>Chemical Engineering Journal</i> , 2015, 281, 174-182.	6.6	30

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19	Mechanism study on the effect of peracetic acid (PAA), UV/PAA and ultrasonic/PAA oxidation on ultrafiltration performance during algae-laden water treatment. <i>Water Research</i> , 2022, 220, 118705.	5.3	27
20	The influence of environmental factor on the coagulation enhanced ultrafiltration of algae-laden water: Role of two anionic surfactants to the separation performance. <i>Chemosphere</i> , 2022, 291, 132745.	4.2	21
21	A moderate activated sulfite pre-oxidation on ultrafiltration treatment of algae-laden water: Fouling mitigation, organic rejection, cell integrity and cake layer property. <i>Separation and Purification Technology</i> , 2022, 282, 120102.	3.9	17
22	Effect of boron-doped diamond anode electrode pretreatment on UF membrane fouling mitigation in a cross-flow filtration process. <i>Separation and Purification Technology</i> , 2021, 259, 118110.	3.9	14
23	Adsorption of Malachite Green with Sodium Dodecylbenzene Sulfonate Modified Sepiolite: Characterization, Adsorption Performance and Regeneration. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3297.	1.2	12
24	Adsorption of Acid Orange ̂...; with Two Step Modified Sepiolite: Optimization, Adsorption Performance, Kinetics, Thermodynamics and Regeneration. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1732.	1.2	11
25	Transport of <i>Enterococcus faecalis</i> in granular activated carbon column: Potential energy, migration, and release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110415.	2.5	10
26	A Pilot Study of the Sludge Recycling Enhanced Coagulationâ€“Ultrafiltration Process for Drinking Water: The Effects of Sludge Recycling Ratio and Coagulation Stirring Strategy. <i>Water (Switzerland)</i> , 2017, 9, 183.	1.2	8
27	Adsorption of Mixed Dye System with Cetyltrimethylammonium Bromide Modified Sepiolite: Characterization, Performance, Kinetics and Thermodynamics. <i>Water (Switzerland)</i> , 2020, 12, 981.	1.2	8
28	Desalination Performance and Fouling Mechanism of Capacitive Deionization: Effects of Natural Organic Matter. <i>Journal of the Electrochemical Society</i> , 2020, 167, 043501.	1.3	6
29	Adsorption Properties of Polyethersulfone-Modified Attapulgitite Hybrid Microspheres for Bisphenol A and Sulfamethoxazole. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 473.	1.2	5
30	Alleviation of Ultrafiltration Membrane Fouling by ClO ₂ Pre-Oxidation: Fouling Mechanism and Interface Characteristics. <i>Membranes</i> , 2022, 12, 78.	1.4	1