

Bing Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,886
citations

304743

22
h-index

276875

41
g-index

59
all docs

59
docs citations

59
times ranked

1865
citing authors

#	ARTICLE	IF	CITATIONS
1	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	13.3	491
2	Diversity and assembly patterns of activated sludge microbial communities: A review. <i>Biotechnology Advances</i> , 2018, 36, 1038-1047.	11.7	120
3	Biodegradability of wastewater determines microbial assembly mechanisms in full-scale wastewater treatment plants. <i>Water Research</i> , 2020, 169, 115276.	11.3	109
4	Progress and prospects of hydrogen production: Opportunities and challenges. <i>Journal of Electronic Science and Technology</i> , 2021, 19, 100080.	3.6	102
5	Seasonal dynamics of the microbial community in two full-scale wastewater treatment plants: Diversity, composition, phylogenetic group based assembly and co-occurrence pattern. <i>Water Research</i> , 2021, 200, 117295.	11.3	83
6	CO ₂ /N ₂ separation performance of Pebax/MIL-101 and Pebax /NH ₂ -MIL-101 mixed matrix membranes and intensification via sub-ambient operation. <i>Separation and Purification Technology</i> , 2020, 238, 116500.	7.9	73
7	Zeolite Married to Carbon: A New Family of Membrane Materials with Excellent Gas Separation Performance. <i>Chemistry of Materials</i> , 2006, 18, 6283-6288.	6.7	60
8	Selective effect and elimination of antibiotics in membrane bioreactor of urban wastewater treatment plant. <i>Science of the Total Environment</i> , 2019, 646, 1293-1303.	8.0	59
9	Preparation and characterization of carbon membranes made from poly(phthalazinone ether sulfone) Tj ETQq1 1 0.784314 rgBT /Overl	10.3	57
10	A novel ammonia-oxidizing archaeon from wastewater treatment plant: Its enrichment, physiological and genomic characteristics. <i>Scientific Reports</i> , 2016, 6, 23747.	3.3	55
11	Preparation and characterization of carbon and carbon/zeolite membranes from ODPA ODA type polyetherimide. <i>Journal of Membrane Science</i> , 2015, 474, 114-121.	8.2	52
12	Structure and morphology of microporous carbon membrane materials derived from poly(phthalazinone ether sulfone ketone). <i>Microporous and Mesoporous Materials</i> , 2006, 96, 79-83.	4.4	44
13	Effects of sulfone/ketone in poly(phthalazinone ether sulfone ketone) on the gas permeation of their derived carbon membranes. <i>Journal of Membrane Science</i> , 2009, 330, 319-325.	8.2	41
14	Sludge retention time affects the microbial community structure: A large-scale sampling of aeration tanks throughout China. <i>Environmental Pollution</i> , 2020, 261, 114140.	7.5	35
15	Preparation and gas permeation of composite carbon membranes from poly(phthalazinone ether) Tj ETQq1 1 0.784314 rgBT /Overl	7.9	34
16	Biogeography and Assembly of Microbial Communities in Wastewater Treatment Plants in China. <i>Environmental Science & Technology</i> , 2020, 54, 5884-5892.	10.0	34
17	Preparation and characterization of a diatomite hybrid microfiltration carbon membrane for oily wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 89, 39-48.	5.3	32
18	Modification of the desalination property of PAN-based nanofiltration membranes by a preoxidation method. <i>Desalination</i> , 2015, 357, 208-214.	8.2	27

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19	Preparation and characterization of CO ₂ -selective Pebax/NaY mixed matrix membranes. Journal of Applied Polymer Science, 2020, 137, 48398.	2.6	26
20	Preparation and applications of microfiltration carbon membranes for the purification of oily wastewater. Separation Science and Technology, 2016, 51, 1872-1880.	2.5	25
21	Modification of CO ₂ -selective mixed matrix membranes by a binary composition of poly(ethylene terephthalate)/poly(ethylene glycol) dimethyl ether. Journal of Applied Polymer Science, 2014, 114, 824-831.	8.2	24
22	Preparation and Characterization of Carbon Membranes Derived from Poly(phthalazinone ether) sulfone. Journal of Applied Polymer Science, 2010, 116, 1010-1018.	3.7	22
23	Towards the Preparation of Ordered Mesoporous Carbon/Carbon Composite Membranes for Gas Separation. Separation Science and Technology, 2014, 49, 171-178.	2.5	21
24	Preparation and characterization of ACF/carbon composite membranes for efficient oil/water separation. Journal of Environmental Chemical Engineering, 2021, 9, 105164.	6.7	20
25	Tailoring the structure and property of microfiltration carbon membranes by polyacrylonitrile-based microspheres for oil-water emulsion separation. Journal of Water Process Engineering, 2019, 32, 100973.	5.6	18
26	Effect of membrane-casting parameters on the microstructure and gas permeation of carbon membranes. RSC Advances, 2015, 5, 60345-60353.	3.6	16
27	Preparation and characterization of supported ordered nanoporous carbon membranes for gas separation. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
28	Fabrication and Application of Catalytic Carbon Membranes for Hydrogen Production from Methanol Steam Reforming. Industrial & Engineering Chemistry Research, 2015, 54, 623-632.	3.7	15
29	The Composition and Spatial Patterns of Bacterial Virulence Factors and Antibiotic Resistance Genes in 19 Wastewater Treatment Plants. PLoS ONE, 2016, 11, e0167422.	2.5	15
30	Fabrication and gas permeation of CMS/C composite membranes based on polyimide and phenolic resin. RSC Advances, 2016, 6, 75390-75399.	3.6	13
31	Ultra-selective microfiltration SiO ₂ /carbon membranes for emulsified oil-water separation. Journal of Environmental Chemical Engineering, 2022, 10, 107848.	6.7	13
32	Investigation of the attapulgite hybrid carbon molecular sieving membranes for permanent gas separation. Chemical Engineering Research and Design, 2019, 151, 146-156.	5.6	12
33	The positive/negative effects of bentonite on O ₂ /N ₂ permeation of carbon molecular sieving membranes. Microporous and Mesoporous Materials, 2019, 285, 142-149.	4.4	12
34	The call for regional design code from the regional discrepancy of microbial communities in activated sludge. Environmental Pollution, 2021, 273, 116487.	7.5	10
35	Profiles of antibiotic resistance genes and virulence genes and their temporal interactions in the membrane bioreactor and oxidation ditch. Environment International, 2019, 131, 104980.	10.0	9
36	Structure and gas permeation of nanoporous carbon membranes based on RF resin/F-127 with variable catalysts. Journal of Materials Research, 2014, 29, 2881-2890.	2.6	8

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37	Pebax/MWCNTs@NH ₂ mixed matrix membranes for enhanced CO ₂ /N ₂ separation. , 2020, 10, 408-420.		8
38	Fabrication of Pebax/SAPO mixed matrix membranes for CO ₂ /N ₂ separation. Journal of Applied Polymer Science, 2021, 138, 51336.	2.6	8
39	Enhanced separation performance of microfiltration carbon membranes for oily wastewater treatment by an air oxidation strategy. Chemical Engineering and Processing: Process Intensification, 2021, 169, 108620.	3.6	8
40	Microporous carbon membranes from sulfonated poly(phthalazinone ether sulfone ketone): Preparation, characterization, and gas permeation. Journal of Applied Polymer Science, 2011, 122, 1190-1197.	2.6	7
41	Enhancement of Carbon Dioxide Mass Transfer Coupling the Synthesis of Calcium Carbonate Fine Particles by (Ionic Liquid)-Emulsion Liquid Membrane. Journal of Dispersion Science and Technology, 2015, 36, 489-495.	2.4	7
42	Surface synthesis of a polyethylene glutaraldehyde coating for improving the oil removal from wastewater of microfiltration carbon membranes. Journal of Water Process Engineering, 2022, 47, 102724.	5.6	7
43	Highly permeable and selective sepiolite hybrid mixed matrix carbon membranes supported on plate carbon substrates for gas separation. Chemical Engineering Research and Design, 2021, 174, 319-330.	5.6	6
44	Drivers of microbial beta-diversity in wastewater treatment plants in China. Journal of Environmental Sciences, 2022, 115, 341-349.	6.1	5
45	Effects of Diatomaceous Earth Addition on the Microstructure and Gas Permeation of Carbon Molecular Sieving Membranes. ChemistrySelect, 2018, 3, 8428-8435.	1.5	3
46	Preparation and characterization of ordered nanoporous carbon materials by templating method. Procedia Engineering, 2012, 27, 762-767.	1.2	2
47	A simple one-step drop-coating approach on fabrication of supported carbon molecular sieve membranes with high gas separation performance. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2251.	1.5	2
48	Synthesis and Structural Morphology of Ordered Nanoporous Carbon via SBA-15 Hard Template. Advanced Materials Research, 0, 233-235, 2239-2242.	0.3	1
49	Effects of Curing Method on the Gas Separation Performance of Phenolic Resin/Poly(vinyl) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf	0.3	1
50	Effects of Extraction on the Desulfurization of FCC Diesel by Ultrasound Oxidation Technique. Advanced Materials Research, 2013, 634-638, 751-754.	0.3	1
51	Structural characterization and properties of ODPA@ODA polyetherimide membranes modified by ethylene glycol. Polymer Bulletin, 2018, 75, 5825-5842.	3.3	1
52	Preparation and Gas Permeation of Zeolite 5A Hybrid PR/PVA Based Carbon Membranes. Advanced Materials Research, 0, 129-131, 241-245.	0.3	0
53	The Study of Aromatization Performance of HZSM-5 Catalyst Deposited Silicon on the Surface. Advanced Materials Research, 2013, 690-693, 2089-2092.	0.3	0
54	Preparation and Characterization of CNT/C Composite Membranes from 6FAPB-PMDA Type Polyimide. Advanced Materials Research, 0, 726-731, 691-694.	0.3	0

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55	The Effect of Ultrasound on Oxidation Desulfurization of Diesel. Applied Mechanics and Materials, 0, 470, 150-153.	0.2	0
56	Efficient purification of oily wastewater by a single-stage filtration with diatomite/carbon membranes. , 0, 230, 193-203.		0