

Bing Zhang

List of Publications by Year in descending order

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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	Drivers of microbial beta-diversity in wastewater treatment plants in China. <i>Journal of Environmental Sciences</i> , 2022, 115, 341-349.	6.1	5
2	Surface synthesis of a polyethylene glutaraldehyde coating for improving the oil removal from wastewater of microfiltration carbon membranes. <i>Journal of Water Process Engineering</i> , 2022, 47, 102724.	5.6	7
3	Ultra-selective microfiltration SiO ₂ /carbon membranes for emulsified oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107848.	6.7	13
4	The call for regional design code from the regional discrepancy of microbial communities in activated sludge. <i>Environmental Pollution</i> , 2021, 273, 116487.	7.5	10
5	Modification of CO ₂ -selective mixed matrix membranes by a binary composition of poly(ethylene Terephthalate) and poly(ethylene glycol) dimethyl ether. <i>Journal of Membrane Science</i> , 2021, 614, 118431.	8.2	24
6	Preparation and characterization of ACF/carbon composite membranes for efficient oil/water separation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105164.	6.7	20
7	Progress and prospects of hydrogen production: Opportunities and challenges. <i>Journal of Electronic Science and Technology</i> , 2021, 19, 100080.	3.6	102
8	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
9	Fabrication of Pebax/SAPO mixed matrix membranes for CO ₂ /N ₂ separation. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51336.	2.6	8
10	Highly permeable and selective sepiolite hybrid mixed matrix carbon membranes supported on plate carbon substrates for gas separation. <i>Chemical Engineering Research and Design</i> , 2021, 174, 319-330.	5.6	6
11	Enhanced separation performance of microfiltration carbon membranes for oily wastewater treatment by an air oxidation strategy. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 169, 108620.	3.6	8
12	Preparation and characterization of CO ₂ -selective Pebax/NaY mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48398.	2.6	26
13	Biodegradability of wastewater determines microbial assembly mechanisms in full-scale wastewater treatment plants. <i>Water Research</i> , 2020, 169, 115276.	11.3	109
14	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
15	Pebax/MWCNTs-NH ₂ mixed matrix membranes for enhanced CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2020, 10, 408-420.		8
16	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
17	Biogeography and Assembly of Microbial Communities in Wastewater Treatment Plants in China. <i>Environmental Science & Technology</i> , 2020, 54, 5884-5892.	10.0	34
18	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

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19	Profiles of antibiotic resistance genes and virulence genes and their temporal interactions in the membrane bioreactor and oxidation ditch. <i>Environment International</i> , 2019, 131, 104980.	10.0	9
20	Investigation of the attapulgite hybrid carbon molecular sieving membranes for permanent gas separation. <i>Chemical Engineering Research and Design</i> , 2019, 151, 146-156.	5.6	12
21	Tailoring the structure and property of microfiltration carbon membranes by polyacrylonitrile-based microspheres for oil-water emulsion separation. <i>Journal of Water Process Engineering</i> , 2019, 32, 100973.	5.6	18
22	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	13.3	491
23	The positive/negative effects of bentonite on O ₂ /N ₂ permeation of carbon molecular sieving membranes. <i>Microporous and Mesoporous Materials</i> , 2019, 285, 142-149.	4.4	12
24	Diversity and assembly patterns of activated sludge microbial communities: A review. <i>Biotechnology Advances</i> , 2018, 36, 1038-1047.	11.7	120
25	A simple one-step drop-coating approach on fabrication of supported carbon molecular sieve membranes with high gas separation performance. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2251.	1.5	2
26	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
27	Effects of Diatomaceous Earth Addition on the Microstructure and Gas Permeation of Carbon Molecular Sieving Membranes. <i>ChemistrySelect</i> , 2018, 3, 8428-8435.	1.5	3
28	Structural characterization and properties of ODPA-ODA polyetherimide membranes modified by ethylene glycol. <i>Polymer Bulletin</i> , 2018, 75, 5825-5842.	3.3	1
29	The Composition and Spatial Patterns of Bacterial Virulence Factors and Antibiotic Resistance Genes in 19 Wastewater Treatment Plants. <i>PLoS ONE</i> , 2016, 11, e0167422.	2.5	15
30	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
31	Preparation and applications of microfiltration carbon membranes for the purification of oily wastewater. <i>Separation Science and Technology</i> , 2016, 51, 1872-1880.	2.5	25
32	Fabrication and gas permeation of CMS/C composite membranes based on polyimide and phenolic resin. <i>RSC Advances</i> , 2016, 6, 75390-75399.	3.6	13
33	Effect of membrane-casting parameters on the microstructure and gas permeation of carbon membranes. <i>RSC Advances</i> , 2015, 5, 60345-60353.	3.6	16
34	Fabrication and Application of Catalytic Carbon Membranes for Hydrogen Production from Methanol Steam Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 623-632.	3.7	15
35	Enhancement of Carbon Dioxide Mass Transfer Coupling the Synthesis of Calcium Carbonate Fine Particles by (Ionic Liquid)-Emulsion Liquid Membrane. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 489-495.	2.4	7
36	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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37	Preparation and characterization of carbon and carbon/zeolite membranes from ODPAâ€œODA type polyetherimide. Journal of Membrane Science, 2015, 474, 114-121.	8.2	52
38	Preparation and characterization of supported ordered nanoporous carbon membranes for gas separation. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
39	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
40	Towards the Preparation of Ordered Mesoporous Carbon/Carbon Composite Membranes for Gas Separation. Separation Science and Technology, 2014, 49, 171-178.	2.5	21
41	Effects of Extraction on the Desulfurization of FCC Diesel by Ultrasound Oxidation Technique. Advanced Materials Research, 2013, 634-638, 751-754.	0.3	1
42	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
43	Preparation and characterization of ordered nanoporous carbon materials by templating method. Procedia Engineering, 2012, 27, 762-767.	1.2	2
44	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
45	Effects of Curing Method on the Gas Separation Performance of Phenolic Resin/Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.3	1
46	Effects of sulfone/ketone in poly(phthalazinone ether sulfone ketone) on the gas permeation of their derived carbon membranes. Journal of Membrane Science, 2009, 330, 319-325.	8.2	41
47	Preparation and Characterization of Carbon Membranes Derived from Poly(phthalazinone ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.7	22
48	Preparation and gas permeation of composite carbon membranes from poly(phthalazinone ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.9	34
49	Zeolite Married to Carbon:â€œ A New Family of Membrane Materials with Excellent Gas Separation Performance. Chemistry of Materials, 2006, 18, 6283-6288.	6.7	60
50	Preparation and characterization of carbon membranes made from poly(phthalazinone ether sulfone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	16.3	57
51	Structure and morphology of microporous carbon membrane materials derived from poly(phthalazinone ether sulfone ketone). Microporous and Mesoporous Materials, 2006, 96, 79-83.	4.4	44
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	Synthesis and Structural Morphology of Ordered Nanoporous Carbon via SBA-15 Hard Template. Advanced Materials Research, 0, 233-235, 2239-2242.	0.3	1
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