

Zeyi Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,669
citations

304368

22
h-index

301761

39
g-index

51
all docs

51
docs citations

51
times ranked

2010
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer synthetic media for studying microbial-catalyzed biofuel production. <i>Biotechnology for Biofuels</i> , 2015, 8, 1.	6.2	418
2	Composite PDMS membrane with high flux for the separation of organics from water by pervaporation. <i>Journal of Membrane Science</i> , 2004, 243, 177-187.	4.1	180
3	Acetone-butanol-ethanol fermentation in a continuous and closed-circulating fermentation system with PDMS membrane bioreactor. <i>Bioresource Technology</i> , 2013, 128, 246-251.	4.8	59
4	Ethanol fermentation kinetics in a continuous and closed-circulating fermentation system with a pervaporation membrane bioreactor. <i>Bioresource Technology</i> , 2012, 114, 707-710.	4.8	55
5	Preparation and pervaporation performances of fumed-silica-filled polydimethylsiloxane-polyamide (PA) composite membranes. <i>Journal of Applied Polymer Science</i> , 2007, 105, 3132-3137.	1.3	54
6	Influence of binding interface between active and support layers in composite PDMS membranes on permeation performance. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2468-2477.	1.3	53
7	Pervaporation of acetic acid/water mixtures through carbon molecular sieve-filled PDMS membranes. <i>Chemical Engineering Journal</i> , 2004, 97, 83-86.	6.6	51
8	Enhanced ethanol fermentation in a pervaporation membrane bioreactor with the convenient permeate vapor recovery. <i>Bioresource Technology</i> , 2014, 155, 229-234.	4.8	51
9	Mass transfer in pervaporation of active fermentation broth with a composite PDMS membrane. <i>Separation and Purification Technology</i> , 2005, 42, 47-53.	3.9	39
10	Pervaporation of alcoholic beverages—the coupling effects between ethanol and aroma compounds. <i>Journal of Membrane Science</i> , 2005, 264, 129-136.	4.1	39
11	Cu-Ag Bimetallic Core-shell Nanoparticles in Pores of a Membrane Microreactor for Enhanced Synergistic Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24795-24803.	4.0	38
12	Inhibition effect of secondary metabolites accumulated in a pervaporation membrane bioreactor on ethanol fermentation of <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2014, 162, 8-13.	4.8	37
13	Ethanol mass transfer during pervaporation with PDMS membrane based on solution-diffusion model considering concentration polarization. <i>Separation and Purification Technology</i> , 2019, 220, 276-282.	3.9	36
14	Coproduction of hydrogen and butanol by <i>Clostridium acetobutylicum</i> with the biofilm immobilized on porous particulate carriers. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11617-11624.	3.8	36
15	Catalytic membrane micro-reactor with nano ZIF-8 immobilized in membrane pores for enhanced Knoevenagel reaction of Benzaldehyde and Ethyl cyanoacetate. <i>Chemical Engineering Journal</i> , 2020, 400, 125910.	6.6	35
16	Kinetic model of continuous ethanol fermentation in closed-circulating process with pervaporation membrane bioreactor by <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2015, 177, 169-175.	4.8	33
17	Bioethanol production in vacuum membrane distillation bioreactor by permeate fractional condensation and mechanical vapor compression with polytetrafluoroethylene (PTFE) membrane. <i>Bioresource Technology</i> , 2018, 268, 708-714.	4.8	32
18	Catalytic nanofiber composite membrane by combining electrospinning precursor seeding and flowing synthesis for immobilizing ZIF-8 derived Ag nanoparticles. <i>Journal of Membrane Science</i> , 2022, 643, 120045.	4.1	30

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19	Energy efficient of ethanol recovery in pervaporation membrane bioreactor with mechanical vapor compression eliminating the cold traps. <i>Bioresource Technology</i> , 2016, 211, 24-30.	4.8	24
20	Continuous acetone-butanol-ethanol (ABE) fermentation and gas production under slight pressure in a membrane bioreactor. <i>Bioresource Technology</i> , 2014, 163, 6-11.	4.8	23
21	Catalytic Membrane Reactor of Nano (Ag+ZIF-8)@Poly(tetrafluoroethylene) Built by Deep-Permeation Synthesis Fabrication. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9890-9899.	1.8	23
22	Synergistic enhanced catalysis of micro-reactor with nano MnO ₂ /ZIF-8 immobilized in membrane pores by flowing synthesis. <i>Journal of Membrane Science</i> , 2021, 628, 119233.	4.1	23
23	Pervaporation membrane bioreactor with permeate fractional condensation and mechanical vapor compression for energy efficient ethanol production. <i>Applied Energy</i> , 2016, 179, 939-947.	5.1	22
24	Electrocatalytic composite membrane with deep-permeation nano structure fabricated by flowing synthesis for enhanced catalysis. <i>Journal of Membrane Science</i> , 2021, 636, 119616.	4.1	21
25	Enhanced Catalytic Performance of a Membrane Microreactor by Immobilizing ZIF-8-Derived Nano-Ag via Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19553-19563.	1.8	19
26	Pretreatment technology for suspended solids and oil removal in an ethanol fermentation broth from food waste separated by pervaporation process. <i>Desalination</i> , 2012, 293, 112-117.	4.0	17
27	Process operation performance of PDMS membrane pervaporation coupled with fermentation for efficient bioethanol production. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1339-1347.	1.7	17
28	Membrane Distillation of Butanol from Aqueous Solution with Polytetrafluoroethylene Membrane. <i>Chemical Engineering and Technology</i> , 2020, 43, 1160-1166.	0.9	15
29	Cell degeneration and performance decline of immobilized <i>Clostridium acetobutylicum</i> on bagasse during hydrogen and butanol production by repeated cycle fermentation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26204-26212.	3.8	14
30	Catalytic membrane nano reactor with Cu/ZnO in situ immobilized in membrane pores for methanol dehydrogenation to formaldehyde. <i>Journal of Membrane Science</i> , 2022, 643, 120014.	4.1	14
31	Cell growth behaviors of <i>Clostridium acetobutylicum</i> in a pervaporation membrane bioreactor for butanol fermentation. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 101-105.	1.4	13
32	Evolutionary engineering of yeast for closed-circulating ethanol fermentation in PDMS membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2012, 60, 56-61.	1.8	12
33	Catalytic membrane micro-reactor with nano Cu/ZIF-8 assembly in membrane pores by flowing synthesis combining partial ion-exchange. <i>Journal of Membrane Science</i> , 2022, 644, 120183.	4.1	12
34	Catalytic Membrane Nanoreactor with Cu _x Ag _{1-x} Bimetallic Nanoparticles Immobilized in Membrane Pores for Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9106-9115.	4.0	12
35	Deep-Permeation Nanocomposite Structure of ZIF-8 inside Porous Poly(tetrafluoroethylene) by Flow Synergistic Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23083-23092.	1.8	11
36	Pervaporation of High Boiling Point Organic Compounds with Composite PDMS Membrane. <i>Separation Science and Technology</i> , 2013, 48, 1252-1260.	1.3	10

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37	A membrane bioreactor with novel modules for effective biodegradation of toluene. <i>Biochemical Engineering Journal</i> , 2000, 5, 83-88.	1.8	9
38	Research on intelligent algorithm for alerting vehicle impact based on multi-agent deep reinforcement learning. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 1337-1347.	3.3	9
39	Micromembrane absorber with deep permeation nanostructure assembled by flowing synthesis. <i>AICHE Journal</i> , 2021, 67, e17272.	1.8	9
40	In Situ Growing CuO/ZIF-8 into Nickel Foam to Fabricate a Binder-Free Self-Supported Glucose Biosensor. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7312-7321.	1.8	9
41	Pervaporation performance in PDMS membrane bioreactor for ethanol recovery with running water and air as coolants at room temperature. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 292-297.	1.6	8
42	Intelligent algorithm in a smart wearable device for predicting and alerting in the danger of vehicle collision. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 3841-3852.	3.3	8
43	Membrane adsorber with hierarchically porous HKUST-1 immobilized in membrane pores by flowing synthesis. <i>Journal of Membrane Science</i> , 2022, 650, 120424.	4.1	8
44	Enhanced coproduction and trade-off of the hydrogen and butanol in the coupled system of pervaporation and repeated-cycle fixed-bed fermentation. <i>Industrial Crops and Products</i> , 2021, 161, 113172.	2.5	7
45	Bioethanol production in membrane distillation bioreactor with permeate fractional condensation and mechanical vapor compression. <i>Energy Procedia</i> , 2019, 158, 21-25.	1.8	6
46	Performance comparison of ethanol and butanol production in a continuous and closed-circulating fermentation system with membrane bioreactor. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 254-260.	1.0	5
47	Property change of bagasse as cell-immobilizing carrier and coproduction of hydrogen-butanol in fixed-bed reactor by repeated cycle fermentation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3629-3639.	3.8	5
48	Ethanol Fermentation Coupled with Pervaporation by Energy Efficient Mechanical vapor Compression. <i>Energy Procedia</i> , 2017, 105, 933-938.	1.8	4
49	Combining acetone-butanol-ethanol production and methyl orange decolorization in wastewater by fermentation with solid food waste as substrate. <i>Renewable Energy</i> , 2021, 179, 2246-2255.	4.3	3
50	Inherent Safety Analysis for a Difluoro-Chloromethane (F22) Pyrolysis Process under an Unsteady State. <i>Journal of Chemical Engineering of Japan</i> , 2020, 53, 135-145.	0.3	1
51	Bioenergy for better sustainability: technologies, challenges and prospect. , 2021, , 43-66.		0