

Xu Jiang

List of Publications by Citations

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19
papers

1,110
citations

15
h-index

19
g-index

19
ext. papers

1,477
ext. citations

10.1
avg, IF

5.04
L-index

#	Paper	IF	Citations
19	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9534-45	9.5	219
18	Pushing CO ₂ -philic membrane performance to the limit by designing semi-interpenetrating networks (SIPN) for sustainable CO ₂ separations. <i>Energy and Environmental Science</i> , 2017 , 10, 1339-1344	35.4	140
17	Building Nanoporous Metal-Organic Frameworks "Armor" on Fibers for High-Performance Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5590-5599	9.5	116
16	Interface manipulation of CO ₂ -philic composite membranes containing designed UiO-66 derivatives towards highly efficient CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15064-15073	13	113
15	Ultra-facile aqueous synthesis of nanoporous zeolitic imidazolate framework membranes for hydrogen purification and olefin/paraffin separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10898-10904	13	86
14	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38877-38886	9.5	65
13	Penetrating chains mimicking plant root branching to build mechanically robust, ultra-stable CO ₂ -philic membranes for superior carbon capture. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16704-16711	13	53
12	Intermediate thermal manipulation of polymers of intrinsic microporous (PIMs) membranes for gas separations. <i>AICHE Journal</i> , 2020 , 66, e16543	3.6	48
11	Nanoporous framework Reservoir Maximizing low-molecular-weight enhancer impregnation into CO ₂ -philic membranes for highly-efficient CO ₂ capture. <i>Journal of Membrane Science</i> , 2019 , 570-571, 278-285	9.6	48
10	Rational design of poly(ethylene oxide) based membranes for sustainable CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24233-24252	13	39
9	New Insights into Various Production Characteristics of Streptococcus thermophilus Strains. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	38
8	Aqueous One-Step Modulation for Synthesizing Monodispersed ZIF-8 Nanocrystals for Mixed-Matrix Membrane. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11296-11305	9.5	34
7	New advances in exopolysaccharides production of Streptococcus thermophilus. <i>Archives of Microbiology</i> , 2017 , 199, 799-809	3	27
6	Mesoporous dendritic fibrous nanosilica (DFNS) stimulating mix matrix membranes towards superior CO ₂ capture. <i>Journal of Membrane Science</i> , 2019 , 586, 185-191	9.6	27
5	Effects of amino functionalized polyhedral oligomeric silsesquioxanes on cross-linked poly(ethylene oxide) membranes for highly-efficient CO ₂ separation. <i>Chemical Engineering Research and Design</i> , 2017 , 122, 280-288	5.5	26
4	Symbiosis-inspired de novo synthesis of ultrahigh MOF growth mixed matrix membranes for sustainable carbon capture.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	15
3	Recent progress in PIM-1 based membranes for sustainable CO ₂ separations: Polymer structure manipulation and mixed matrix membrane design. <i>Separation and Purification Technology</i> , 2022 , 284, 120277	8.3	8

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| 2 | Technological properties assessment and two component systems distribution of <i>Streptococcus thermophilus</i> strains isolated from fermented milk. <i>Archives of Microbiology</i> , 2018 , 200, 567-580 | 3 | 6 |
| 1 | A facile direct spray-coating of Pebax® 1657: Towards large-scale thin-film composite membranes for efficient CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021 , 638, 119708 | 9.6 | 2 |