Xu Jiang

List of Publications by Year in Descending Order

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	Symbiosis-inspired de novo synthesis of ultrahigh MOF growth mixed matrix membranes for sustainable carbon capture.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	15
18	Recent progress in PIM-1 based membranes for sustainable CO2 separations: Polymer structure manipulation and mixed matrix membrane design. *Separation and Purification Technology*, **2022**, 284, 120277	8.3	8
17	Aqueous One-Step Modulation for Synthesizing Monodispersed ZIF-8 Nanocrystals for Mixed-Matrix Membrane. *ACS Applied Materials & Interfaces*, **2021**, 13, 11296-11305	9.5	34
16	A facile direct spray-coating of Pebax 1657: Towards large-scale thin-film composite membranes for efficient CO2/N2 separation. *Journal of Membrane Science*, **2021**, 638, 119708	9.6	2
15	Intermediate thermal manipulation of polymers of intrinsic microporous (PIMs) membranes for gas separations. *AICHE Journal*, **2020**, 66, e16543	3.6	48
14	Rational design of poly(ethylene oxide) based membranes for sustainable CO2 capture. *Journal of Materials Chemistry A*, **2020**, 8, 24233-24252	13	39
13	Mesoporous dendritic fibrous nanosilica (DFNS) stimulating mix matrix membranes towards superior CO2 capture. *Journal of Membrane Science*, **2019**, 586, 185-191	9.6	27
12	Penetrating chains mimicking plant root branching to build mechanically robust, ultra-stable CO2-philic membranes for superior carbon capture. *Journal of Materials Chemistry A*, **2019**, 7, 16704-16711	13	53
11	Ultra-facile aqueous synthesis of nanoporous zeolitic imidazolate framework membranes for hydrogen purification and olefin/paraffin separation. *Journal of Materials Chemistry A*, **2019**, 7, 10898-10904	13	86
10	Nanoporous framework reservoir maximizing low-molecular-weight enhancer impregnation into CO2-philic membranes for highly-efficient CO2 capture. *Journal of Membrane Science*, **2019**, 570-571, 278-285	9.6	48
9	Technological properties assessment and two component systems distribution of Streptococcus thermophilus strains isolated from fermented milk. *Archives of Microbiology*, **2018**, 200, 567-580	3	6
8	Interface manipulation of CO2philic composite membranes containing designed UiO-66 derivatives towards highly efficient CO2 capture. *Journal of Materials Chemistry A*, **2018**, 6, 15064-15073	13	113
7	Building Nanoporous Metal-Organic Frameworks "Armor" on Fibers for High-Performance Composite Materials. *ACS Applied Materials & Interfaces*, **2017**, 9, 5590-5599	9.5	116
6	Pushing CO2-philic membrane performance to the limit by designing semi-interpenetrating networks (SIPN) for sustainable CO2 separations. *Energy and Environmental Science*, **2017**, 10, 1339-1344	35.4	140
5	Effects of amino functionalized polyhedral oligomeric silsesquioxanes on cross-linked poly(ethylene oxide) membranes for highly-efficient CO 2 separation. *Chemical Engineering Research and Design*, **2017**, 122, 280-288	5.5	26
4	New advances in exopolysaccharides production of Streptococcus thermophilus. *Archives of Microbiology*, **2017**, 199, 799-809	3	27
3	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. *ACS Applied Materials & Interfaces*, **2017**, 9, 38877-38886	9.5	65

2	New Insights into Various Production Characteristics of Streptococcus thermophilus Strains. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	38
1	Mussel-Inspired Hybrid Coatings that Transform Membrane Hydrophobicity into High Hydrophilicity and Underwater Superoleophobicity for Oil-in-Water Emulsion Separation. *ACS Applied Materials & Interfaces*, **2015**, 7, 9534-45	9.5	219