Shouliang Yi

List of Publications by Year
in descending order

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20 papers	1,493 citations	516710 16 h-index	752698 20 g-index
22 all docs	22 docs citations	22 times ranked	1997 citing authors

#	Article	IF	Citations
1	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. Nature Materials, 2018, 17, 283-289.	27.5	449
2	Enabling Fluorinated MOFâ€Based Membranes for Simultaneous Removal of H₂S and CO₂ from Natural Gas. Angewandte Chemie - International Edition, 2018, 57, 14811-14816.	13.8	176
3	Ultraselective glassy polymer membranes with unprecedented performance for energy-efficient sour gas separation. Science Advances, 2019, 5, eaaw5459.	10.3	106
4	Application of response surface methodology and central composite rotatable design in optimizing the preparation conditions of vinyltriethoxysilane modified silicalite/polydimethylsiloxane hybrid pervaporation membranes. Separation and Purification Technology, 2010, 71, 252-262.	7.9	98
5	Preparation and characterization of vinyltriethoxysilane (VTES) modified silicalite-1/PDMS hybrid pervaporation membrane and its application in ethanol separation from dilute aqueous solution. Journal of Membrane Science, 2010, 360, 341-351.	8.2	92
6	Modification of silicalite-1 by vinyltrimethoxysilane (VTMS) and preparation of silicalite-1 filled polydimethylsiloxane (PDMS) hybrid pervaporation membranes. Separation and Purification Technology, 2010, 75, 286-294.	7.9	89
7	Enhanced CO₂/CH₄ Separation Performance of a Mixed Matrix Membrane Based on Tailored MOFâ€Polymer Formulations. Advanced Science, 2018, 5, 1800982.	11.2	88
8	A high-performance hydroxyl-functionalized polymer of intrinsic microporosity for an environmentally attractive membrane-based approach to decontamination of sour natural gas. Journal of Materials Chemistry A, 2015, 3, 22794-22806.	10.3	83
9	Novel chemical surface modification to enhance hydrophobicity of polyamide-imide (PAI) hollow fiber membranes. Journal of Membrane Science, 2011, 380, 241-250.	8.2	57
10	Volatile organic compounds (VOCs) recovery from aqueous solutions via pervaporation with vinyltriethoxysilane-grafted-silicalite-1/polydimethylsiloxane mixed matrix membrane. Chemical Engineering Journal, 2017, 313, 1639-1646.	12.7	50
11	Effects of fermentation by-products and inhibitors on pervaporative recovery of biofuels from fermentation broths with novel silane modified silicalite-1/PDMS/PAN thin film composite membrane. Chemical Engineering Journal, 2015, 279, 547-554.	12.7	30
12	Molecularly Designed Stabilized Asymmetric Hollow Fiber Membranes for Aggressive Natural Gas Separation. Angewandte Chemie - International Edition, 2016, 55, 13754-13758.	13.8	29
13	Mixed Matrix Membranes from a Microporous Polymer Blend and Nanosized Metalâ€“Organic Frameworks with Exceptional CO₂/N₂ Separation Performance. , 2020, 2, 821-828.		27
14	Separation performance of novel vinyltriethoxysilane (VTES)-g-silicalite-1/PDMS/PAN thin-film composite membrane in the recovery of bioethanol from fermentation broths by pervaporation. Journal of Membrane Science, 2017, 524, 132-140.	8.2	26
15	State-of-the-Art Organic- and Inorganic-Based Hollow Fiber Membranes in Liquid and Gas Applications: Looking Back and Beyond. Membranes, 2022, 12, 539.	3.0	22
16	Molecular design and fabrication of PIM-1/polyphosphazene blend membranes with high performance for CO2/N2 separation. Journal of Membrane Science, 2021, 640, 119764.	8.2	20
17	Enabling Fluorinated MOFâ€Based Membranes for Simultaneous Removal of H₂S and CO₂ from Natural Gas. Angewandte Chemie, 2018, 130, 15027-15032.	2.0	17
18	Highly selective hollow fiber membranes for carbon capture via in-situ layer-by-layer surface functionalization. Journal of Membrane Science, 2021, 633, 119381.	8.2	16

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19	Molecularly Designed Stabilized Asymmetric Hollow Fiber Membranes for Aggressive Natural Gas Separation. Angewandte Chemie, 2016, 128, 13958-13962.	2.0	9
20	Enhancing H2-permselectivity of high-flux hollow fiber membrane via in-situ layer-by-layer surface treatment. Journal of Membrane Science, 2020, 615, 118312.	8.2	4