

Shenxiang Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

4,158
citations

24
h-index

49
g-index

49
ext. papers

4,940
ext. citations

12.6
avg, IF

5.8
L-index

#	Paper	IF	Citations
45	Thin-film composite nanofiltration membrane with unprecedented stability in strong acid for highly selective dye/NaCl separation. <i>Journal of Membrane Science</i> , 2022 , 645, 120189	9.6	2
44	Micrometer-sized MOF particles incorporated mixed-matrix membranes driven by π -interfacial interactions for improved gas separation. <i>Separation and Purification Technology</i> , 2022 , 121258	8.3	0
43	Metal ion cross-linked nanoporous polymeric membranes with improved organic solvent resistance for molecular separation. <i>Journal of Membrane Science</i> , 2021 , 621, 119002	9.6	7
42	In-situ generation of polymer molecular sieves in polymer membranes for highly selective gas separation. <i>Journal of Membrane Science</i> , 2021 , 630, 119302	9.6	8
41	The high-yield direct synthesis of dimethyl ether from CO ₂ and H ₂ in a dry reaction environment. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2678-2682	13	5
40	Thin film composite structured Janus membrane for fast gravity-driven separation of a trace of blood. <i>Journal of Membrane Science</i> , 2021 , 620, 118853	9.6	2
39	Constructing Strong Interfacial Interactions under Mild Conditions in MOF-Incorporated Mixed Matrix Membranes for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3166-3174	9.5	12
38	Thermally Cross-Linked Amidoxime-Functionalized Polymers of Intrinsic Microporosity Membranes for Highly Selective Hydrogen Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9426-9435	8.3	3
37	Mixed matrix membranes with highly dispersed MOF nanoparticles for improved gas separation. <i>Separation and Purification Technology</i> , 2021 , 277, 119449	8.3	9
36	Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits. <i>Advanced Materials</i> , 2020 , 32, e1908291	24	39
35	Negative Charge Confined Amine Carriers within the Nanowire Network for Stable and Efficient Membrane Carbon Capture. <i>Advanced Functional Materials</i> , 2020 , 30, 2002804	15.6	11
34	A microporous polymer ultrathin membrane for the highly efficient removal of dyes from acidic saline solutions. <i>Journal of Membrane Science</i> , 2020 , 603, 118027	9.6	15
33	Bio-Nanocomposite Coatings: Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits (Adv. Mater. 26/2020). <i>Advanced Materials</i> , 2020 , 32, 2070199	24	
32	Ultrafast Ion Sieving from Honeycomb-like Polyamide Membranes Formed Using Porous Protein Assemblies. <i>Nano Letters</i> , 2020 , 20, 5821-5829	11.5	24
31	Two-Dimensional Microporous Material-based Mixed Matrix Membranes for Gas Separation. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2303-2315	4.5	9
30	Na-gated water-conducting nanochannels for boosting CO conversion to liquid fuels. <i>Science</i> , 2020 , 367, 667-671	33.3	68
29	MOF Nanosheet-Based Mixed Matrix Membranes with Metal-Organic Coordination Interfacial Interaction for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49101-49110	9.5	35

28	Effects on Carbon Molecular Sieve Membrane Properties for a Precursor Polyimide with Simultaneous Flatness and Contortion in the Repeat Unit. <i>ChemSusChem</i> , 2020 , 13, 5531-5538	8.3	6
27	Superhydrophilic Sub-1-nm Porous Membrane with Electroneutral Surface for Nonselective Transport of Small Organic Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38778-38787	9.5	3
26	Adamantane-grafted polymer of intrinsic microporosity with finely tuned interchain spacing for improved CO ₂ separation performance. <i>Separation and Purification Technology</i> , 2020 , 233, 116008	8.3	12
25	Ultrathin Polyamide Nanofiltration Membrane Fabricated on Brush-Painted Single-Walled Carbon Nanotube Network Support for Ion Sieving. <i>ACS Nano</i> , 2019 , 13, 5278-5290	16.7	145
24	Polymer of intrinsic microporosity-based macroporous membrane with high thermal stability as a Li-ion battery separator.. <i>RSC Advances</i> , 2019 , 9, 21539-21543	3.7	3
23	Porous superstructures constructed from ultrafine FeP nanoparticles for highly active and exceptionally stable hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6387-6392	13	65
22	Hydrogel-embedded tight ultrafiltration membrane with superior anti-dye-fouling property for low-pressure driven molecule separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2927-2934	13	53
21	Carbon Molecular Sieve Membranes Derived from Tröger's Base-Based Microporous Polyimide for Gas Separation. <i>ChemSusChem</i> , 2018 , 11, 916-923	8.3	34
20	Cupric Phosphate Nanosheets-Wrapped Inorganic Membranes with Superhydrophilic and Outstanding Anticrude Oil-Fouling Property for Oil/Water Separation. <i>ACS Nano</i> , 2018 , 12, 795-803	16.7	231
19	Microsphere-Fiber Interpenetrated Superhydrophobic PVDF Microporous Membranes with Improved Waterproof and Breathable Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28210-28218	9.5	48
18	Ultralarge Single-Layer Porous Protein Nanosheet for Precise Nanosize Separation. <i>Nano Letters</i> , 2018 , 18, 6563-6569	11.5	31
17	Rh nanoparticles supported on ultrathin carbon nanosheets for high-performance oxygen reduction reaction and catalytic hydrogenation. <i>Nanoscale</i> , 2017 , 9, 1834-1839	7.7	42
16	Nanoporous film-mediated growth of ultrathin and continuous metal-organic framework membranes for high-performance hydrogen separation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1962-1966	13	28
15	Polymers of intrinsic microporosity/metal-organic framework hybrid membranes with improved interfacial interaction for high-performance CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10968-10977	13	79
14	Mineralized growth of Janus membrane with asymmetric wetting property for fast separation of a trace of blood. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4876-4882	7.3	17
13	Interfacial Design of Mixed Matrix Membranes for Improved Gas Separation Performance. <i>Advanced Materials</i> , 2016 , 28, 3399-405	24	243
12	A Robust Polyionized Hydrogel with an Unprecedented Underwater Anti-Crude-Oil-Adhesion Property. <i>Advanced Materials</i> , 2016 , 28, 5307-14	24	262
11	Nanowire Oriented On-Surface Growth of Chiral Cystine Crystalline Nanosheets. <i>Langmuir</i> , 2015 , 31, 8795-801	4	1

10	An ultrathin bilayer membrane with asymmetric wettability for pressure responsive oil/water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23477-23482	13	128
9	Superwetting polymer-decorated SWCNT composite ultrathin films for ultrafast separation of oil-in-water nanoemulsions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2895-2902	13	123
8	SWCNT-intercalated GO ultrathin films for ultrafast separation of molecules. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6649-6654	13	184
7	Triethylamine-based copolymers with intrinsic microporosity for CO ₂ separation and effect of triethylamine on separation performance. <i>Polymer Chemistry</i> , 2014 , 5, 2793-2800	4.9	88
6	Microporous Polyimides with Rationally Designed Chain Structure Achieving High Performance for Gas Separation. <i>Macromolecules</i> , 2014 , 47, 7477-7483	5.5	103
5	Triethylamine Base-Based Microporous Polyimide Membranes for High-Performance Gas Separation.. <i>ACS Macro Letters</i> , 2014 , 3, 597-601	6.6	138
4	Superhydrophobic and superoleophilic PVDF membranes for effective separation of water-in-oil emulsions with high flux. <i>Advanced Materials</i> , 2013 , 25, 2071-6	24	869
3	Nanowire-haired inorganic membranes with superhydrophilicity and underwater ultralow adhesive superoleophobicity for high-efficiency oil/water separation. <i>Advanced Materials</i> , 2013 , 25, 4192-8	24	689
2	Ultrafast permeation of water through protein-based membranes. <i>Nature Nanotechnology</i> , 2009 , 4, 353-357	27.7	274
1	Ultrathin microporous metal-organic network membranes for molecular separation. <i>Journal of Materials Chemistry A</i> ,	13	1