

# Hong Wu

## List of Publications by Year in descending order

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260  
papers

16,736  
citations

10986

71  
h-index

22166

113  
g-index

264  
all docs

264  
docs citations

264  
times ranked

10528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in high permeability polymer-based membrane materials for CO <sub>2</sub> separations. <i>Energy and Environmental Science</i> , 2016, 9, 1863-1890.	30.8	612
2	Nanostructured Ion-Exchange Membranes for Fuel Cells: Recent Advances and Perspectives. <i>Advanced Materials</i> , 2015, 27, 5280-5295.	21.0	335
3	Efficient CO <sub>2</sub> Capture by Functionalized Graphene Oxide Nanosheets as Fillers To Fabricate Multi-Permeable Mixed Matrix Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5528-5537.	8.0	305
4	Methods for the regeneration of nicotinamide coenzymes. <i>Green Chemistry</i> , 2013, 15, 1773.	9.0	278
5	Covalent organic framework membranes through a mixed-dimensional assembly for molecular separations. <i>Nature Communications</i> , 2019, 10, 2101.	12.8	271
6	An Interface-Bridged Organic-Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16594-16601.	13.8	270
7	Covalent organic framework modified polyamide nanofiltration membrane with enhanced performance for desalination. <i>Journal of Membrane Science</i> , 2017, 523, 273-281.	8.2	259
8	Recent advances in the fabrication of advanced composite membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10058.	10.3	252
9	Two-dimensional nanochannel membranes for molecular and ionic separations. <i>Chemical Society Reviews</i> , 2020, 49, 1071-1089.	38.1	242
10	Ultrathin nanofiltration membrane with polydopamine-covalent organic framework interlayer for enhanced permeability and structural stability. <i>Journal of Membrane Science</i> , 2019, 576, 131-141.	8.2	238
11	Pebax-PEG-MWCNT hybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Membrane Science</i> , 2014, 460, 62-70.	8.2	223
12	Synergistic effect of combining carbon nanotubes and graphene oxide in mixed matrix membranes for efficient CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2015, 479, 1-10.	8.2	219
13	Facilitated transport of small molecules and ions for energy-efficient membranes. <i>Chemical Society Reviews</i> , 2015, 44, 103-118.	38.1	211
14	Weakly Humidity-Dependent Proton-Conducting COF Membranes. <i>Advanced Materials</i> , 2020, 32, e2005565.	21.0	201
15	Facilitated transport mixed matrix membranes incorporated with amine functionalized MCM-41 for enhanced gas separation properties. <i>Journal of Membrane Science</i> , 2014, 465, 78-90.	8.2	196
16	A highly permeable graphene oxide membrane with fast and selective transport nanochannels for efficient carbon capture. <i>Energy and Environmental Science</i> , 2016, 9, 3107-3112.	30.8	192
17	Mixed matrix membranes comprising polymers of intrinsic microporosity and covalent organic framework for gas separation. <i>Journal of Membrane Science</i> , 2017, 528, 273-283.	8.2	177
18	Pervaporation performance comparison of hybrid membranes filled with two-dimensional ZIF-L nanosheets and zero-dimensional ZIF-8 nanoparticles. <i>Journal of Membrane Science</i> , 2017, 523, 185-196.	8.2	176

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19	Biomimetic and bioinspired membranes: Preparation and application. <i>Progress in Polymer Science</i> , 2014, 39, 1668-1720.	24.7	174
20	Hybrid membranes for pervaporation separations. <i>Journal of Membrane Science</i> , 2017, 541, 329-346.	8.2	174
21	Covalent organic framework-modulated interfacial polymerization for ultrathin desalination membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25641-25649.	10.3	173
22	Enhanced Proton Conductivity of Nafion Hybrid Membrane under Different Humidities by Incorporating Metal-Organic Frameworks With High Phytic Acid Loading. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9799-9807.	8.0	172
23	Organic molecular sieve membranes for chemical separations. <i>Chemical Society Reviews</i> , 2021, 50, 5468-5516.	38.1	170
24	Enhanced Interfacial Interaction and CO <sub>2</sub> Separation Performance of Mixed Matrix Membrane by Incorporating Polyethylenimine-Decorated Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1065-1077.	8.0	162
25	Solid-Vapor Interface Engineered Covalent Organic Framework Membranes for Molecular Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 13450-13458.	13.7	161
26	Enhancing the CO <sub>2</sub> separation performance of composite membranes by the incorporation of amino acid-functionalized graphene oxide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6629-6641.	10.3	152
27	Enhancement of Proton Conduction at Low Humidity by Incorporating Imidazole Microcapsules into Polymer Electrolyte Membranes. <i>Advanced Functional Materials</i> , 2012, 22, 4539-4546.	14.9	135
28	Nanoporous ZIF-67 embedded polymers of intrinsic microporosity membranes with enhanced gas separation performance. <i>Journal of Membrane Science</i> , 2018, 548, 309-318.	8.2	130
29	De Novo Design of Covalent Organic Framework Membranes toward Ultrafast Anion Transport. <i>Advanced Materials</i> , 2020, 32, e2001284.	21.0	130
30	Fabrication of electro-neutral nanofiltration membranes at neutral pH with antifouling surface via interfacial polymerization from a novel zwitterionic amine monomer. <i>Journal of Membrane Science</i> , 2016, 503, 101-109.	8.2	126
31	Efficient Conversion of CO <sub>2</sub> to Methanol Catalyzed by Three Dehydrogenases Co-encapsulated in an Alginate-Silica (ALG-SiO <sub>2</sub> ) Hybrid Gel. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 4567-4573.	3.7	122
32	Fabrication of composite nanofiltration membrane by incorporating attapulgite nanorods during interfacial polymerization for high water flux and antifouling property. <i>Journal of Membrane Science</i> , 2017, 544, 79-87.	8.2	121
33	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO <sub>2</sub> Separations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14246-14251.	13.8	121
34	Bioinspired Approach to Multienzyme Cascade System Construction for Efficient Carbon Dioxide Reduction. <i>ACS Catalysis</i> , 2014, 4, 962-972.	11.2	120
35	Efficient CO <sub>2</sub> capture by humidified polymer electrolyte membranes with tunable water state. <i>Energy and Environmental Science</i> , 2014, 7, 1489.	30.8	119
36	Enhanced proton conductivity of proton exchange membranes by incorporating sulfonated metal-organic frameworks. <i>Journal of Power Sources</i> , 2014, 262, 372-379.	7.8	117

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37	Surface-modified Y zeolite-filled chitosan membrane for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2007, 173, 842-852.	7.8	114
38	Sulfonated poly(ether ether ketone)-based hybrid membranes containing graphene oxide with acid-base pairs for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2016, 203, 178-188.	5.2	113
39	Constructing efficient ion nanochannels in alkaline anion exchange membranes by the in situ assembly of a poly(ionic liquid) in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2340-2348.	10.3	113
40	Highly water-permeable and stable hybrid membrane with asymmetric covalent organic framework distribution. <i>Journal of Membrane Science</i> , 2016, 520, 583-595.	8.2	107
41	Enhancing the permeation flux and antifouling performance of polyamide nanofiltration membrane by incorporation of PEG-POSS nanoparticles. <i>Journal of Membrane Science</i> , 2017, 540, 454-463.	8.2	107
42	Enhanced proton conductivity of Nafion nanohybrid membrane incorporated with phosphonic acid functionalized graphene oxide at elevated temperature and low humidity. <i>Journal of Membrane Science</i> , 2016, 518, 243-253.	8.2	106
43	Membrane-Based Olefin/Paraffin Separations. <i>Advanced Science</i> , 2020, 7, 2001398.	11.2	105
44	Metal-coordinated sub-10%nm membranes for water purification. <i>Nature Communications</i> , 2019, 10, 4160.	12.8	104
45	High permeability hydrogel membranes of chitosan/poly ether-block-amide blends for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2014, 469, 198-208.	8.2	103
46	Enhanced gas separation performance of mixed matrix membranes from graphitic carbon nitride nanosheets and polymers of intrinsic microporosity. <i>Journal of Membrane Science</i> , 2016, 514, 15-24.	8.2	103
47	Functionally graded membranes from nanoporous covalent organic frameworks for highly selective water permeation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 583-591.	10.3	103
48	Enhanced proton conductivity of Nafion composite membrane by incorporating phosphoric acid-loaded covalent organic framework. <i>Journal of Power Sources</i> , 2016, 332, 265-273.	7.8	102
49	Facilitated transport membranes by incorporating graphene nanosheets with high zinc ion loading for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2017, 522, 351-362.	8.2	102
50	Ion Selective Covalent Organic Framework Enabling Enhanced Electrochemical Performance of Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 2997-3006.	9.1	102
51	Tunable Nanochannels along Graphene Oxide/Polymer Core-Shell Nanosheets to Enhance Proton Conductivity. <i>Advanced Functional Materials</i> , 2015, 25, 7502-7511.	14.9	97
52	Graphene quantum dot engineered ultrathin loose polyamide nanofilms for high-performance nanofiltration. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23930-23938.	10.3	95
53	Preparing alkaline anion exchange membrane with enhanced hydroxide conductivity via blending imidazolium-functionalized and sulfonated poly(ether ether ketone). <i>Journal of Power Sources</i> , 2015, 288, 384-392.	7.8	93
54	Mixed matrix membranes composed of sulfonated poly(ether ether ketone) and a sulfonated metal-organic framework for gas separation. <i>Journal of Membrane Science</i> , 2015, 488, 67-78.	8.2	91

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55	Embedding dopamine nanoaggregates into a poly(dimethylsiloxane) membrane to confer controlled interactions and free volume for enhanced separation performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3713.	10.3	90
56	Channel-facilitated molecule and ion transport across polymer composite membranes. <i>Chemical Society Reviews</i> , 2017, 46, 6725-6745.	38.1	90
57	Graphitic carbon nitride nanosheets/sulfonated poly(ether ether ketone) nanocomposite membrane for direct methanol fuel cell application. <i>Journal of Membrane Science</i> , 2016, 507, 1-11.	8.2	88
58	Multifunctional covalent organic framework (COF)-Based mixed matrix membranes for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2021, 618, 118693.	8.2	88
59	Preparation of ultrathin, robust membranes through reactive layer-by-layer (LbL) assembly for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2017, 537, 229-238.	8.2	87
60	Enhancing the interfacial stability and solvent-resistant property of PDMS/PES composite membrane by introducing a bifunctional aminosilane. <i>Journal of Membrane Science</i> , 2009, 337, 61-69.	8.2	86
61	Composite proton conductive membranes composed of sulfonated poly(ether ether ketone) and phosphotungstic acid-loaded imidazole microcapsules as acid reservoirs. <i>Journal of Membrane Science</i> , 2014, 451, 74-84.	8.2	84
62	Functionalized Carbon Nanotube via Distillation Precipitation Polymerization and Its Application in Nafion-Based Composite Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15291-15301.	8.0	84
63	SPEEK/amine-functionalized TiO <sub>2</sub> submicrospheres mixed matrix membranes for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2014, 467, 23-35.	8.2	84
64	Protamine-Templated Biomimetic Hybrid Capsules: Efficient and Stable Carrier for Enzyme Encapsulation. <i>Chemistry of Materials</i> , 2008, 20, 1041-1048.	6.7	81
65	Bioinspired Ultrastrong Solid Electrolytes with Fast Proton Conduction along 2D Channels. <i>Advanced Materials</i> , 2017, 29, 1605898.	21.0	81
66	Scalable Fabrication of Crystalline COF Membranes from Amorphous Polymeric Membranes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18051-18058.	13.8	81
67	Significant increase of permeation flux and selectivity of poly(vinyl alcohol) membranes by incorporation of crystalline flake graphite. <i>Journal of Membrane Science</i> , 2005, 259, 65-73.	8.2	80
68	Metal-Organic Coordination-Enabled Layer-by-Layer Self-Assembly to Prepare Hybrid Microcapsules for Efficient Enzyme Immobilization. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3476-3483.	8.0	80
69	Proton exchange nanohybrid membranes with high phosphotungstic acid loading within metal-organic frameworks for PEMFC applications. <i>Electrochimica Acta</i> , 2017, 240, 186-194.	5.2	80
70	Assembling covalent organic framework membranes with superior ion exchange capacity. <i>Nature Communications</i> , 2022, 13, 1020.	12.8	79
71	Mussel-inspired fabrication of structurally stable chitosan/polyacrylonitrile composite membrane for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2010, 348, 150-159.	8.2	75
72	Independent control of water retention and acid-base pairing through double-shelled microcapsules to confer membranes with enhanced proton conduction under low humidity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2267-2277.	10.3	74

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73	Enhanced CO <sub>2</sub> Permeability of Membranes by Incorporating Polyzwitterion@CNT Composite Particles into Polyimide Matrix. ACS Applied Materials & Interfaces, 2014, 6, 13051-13060.	8.0	73
74	Heterobimetallic metal-organic framework nanocages as highly efficient catalysts for CO <sub>2</sub> conversion under mild conditions. Journal of Materials Chemistry A, 2018, 6, 2964-2973.	10.3	73
75	Highly water-selective membranes based on hollow covalent organic frameworks with fast transport pathways. Journal of Membrane Science, 2018, 565, 331-341.	8.2	73
76	Precise nanopore tuning for a high-throughput desalination membrane <i>via</i> co-deposition of dopamine and multifunctional POSS. Journal of Materials Chemistry A, 2018, 6, 13191-13202.	10.3	73
77	Photoregeneration of NADH Using Carbon-Containing TiO <sub>2</sub> . Industrial & Engineering Chemistry Research, 2005, 44, 4165-4170.	3.7	72
78	Sulfonated poly(ether ether ketone)/amino-acid functionalized titania hybrid proton conductive membranes. Journal of Power Sources, 2012, 213, 83-92.	7.8	72
79	Mixed Nanosheet Membranes Assembled from Chemically Grafted Graphene Oxide and Covalent Organic Frameworks for Ultra-high Water Flux. ACS Applied Materials & Interfaces, 2019, 11, 28978-28986.	8.0	72
80	Fabrication of Nafion/zwitterion-functionalized covalent organic framework composite membranes with improved proton conductivity. Journal of Membrane Science, 2018, 568, 1-9.	8.2	70
81	Fabrication of sulfonated poly(ether ether ketone)-based hybrid proton-conducting membranes containing carboxyl or amino acid-functionalized titania by in situ sol-gel process. Journal of Power Sources, 2015, 276, 271-278.	7.8	69
82	Facilitating Proton Transport in Nafion-Based Membranes at Low Humidity by Incorporating Multifunctional Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2017, 9, 27676-27687.	8.0	67
83	Electrostatic-modulated interfacial polymerization toward ultra-permselective nanofiltration membranes. IScience, 2021, 24, 102369.	4.1	67
84	Constructing facile proton-conduction pathway within sulfonated poly(ether ether ketone) membrane by incorporating poly(phosphonic acid)/silica nanotubes. Journal of Power Sources, 2014, 259, 203-212.	7.8	65
85	High-performance composite membranes incorporated with carboxylic acid nanogels for CO <sub>2</sub> separation. Journal of Membrane Science, 2015, 495, 72-80.	8.2	65
86	Fabrication of hybrid membranes by incorporating acid-base pair functionalized hollow mesoporous silica for enhanced proton conductivity. Journal of Materials Chemistry A, 2015, 3, 16079-16088.	10.3	63
87	Novel sulfonated poly(ether ether ketone)/phosphonic acid-functionalized titania nanohybrid membrane by an in situ method for direct methanol fuel cells. Journal of Power Sources, 2015, 273, 544-553.	7.8	63
88	Tight Covalent Organic Framework Membranes for Efficient Anion Transport via Molecular Precursor Engineering. Angewandte Chemie - International Edition, 2021, 60, 17638-17646.	13.8	63
89	Preparation and properties of hybrid direct methanol fuel cell membranes by embedding organophosphorylated titania submicrospheres into a chitosan polymer matrix. Journal of Power Sources, 2010, 195, 4104-4113.	7.8	62
90	Janus composite nanoparticle-incorporated mixed matrix membranes for CO <sub>2</sub> separation. Journal of Membrane Science, 2015, 489, 1-10.	8.2	62

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91	Metabolites from <i>Bufo gargarizans</i> (Cantor, 1842): A review of traditional uses, pharmacological activity, toxicity and quality control. <i>Journal of Ethnopharmacology</i> , 2020, 246, 112178.	4.1	62
92	Covalent Organic Framework Nanosheets as Reactive Fillers To Fabricate Free-Standing Polyamide Membranes for Efficient Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27777-27785.	8.0	62
93	Embedding Ag + @COFs within Pebax membrane to confer mass transport channels and facilitated transport sites for elevated desulfurization performance. <i>Journal of Membrane Science</i> , 2018, 552, 1-12.	8.2	61
94	Enhanced CO <sub>2</sub> selectivities by incorporating CO <sub>2</sub> -philic PEG-POSS into polymers of intrinsic microporosity membrane. <i>Journal of Membrane Science</i> , 2017, 543, 69-78.	8.2	60
95	Heterostructured filler in mixed matrix membranes to coordinate physical and chemical selectivities for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2018, 567, 272-280.	8.2	60
96	Preparation of anion exchange membrane with enhanced conductivity and alkaline stability by incorporating ionic liquid modified carbon nanotubes. <i>Journal of Membrane Science</i> , 2019, 573, 1-10.	8.2	58
97	Bioadhesion-inspired polymer-inorganic nanohybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 19617.	6.7	57
98	Water-selective permeation in hybrid membrane incorporating multi-functional hollow ZIF-8 nanospheres. <i>Journal of Membrane Science</i> , 2018, 555, 146-156.	8.2	57
99	Constructing inorganic shell onto LBL microcapsule through biomimetic mineralization: A novel and facile method for fabrication of microbioreactors. <i>Soft Matter</i> , 2010, 6, 542-550.	2.7	56
100	Manipulation of interactions at membrane interfaces for energy and environmental applications. <i>Progress in Polymer Science</i> , 2018, 80, 125-152.	24.7	56
101	Lamellar porous vermiculite membranes for boosting nanofluidic osmotic energy conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14576-14581.	10.3	56
102	Graphene oxide quantum dots incorporated nanocomposite membranes with high water flux for pervaporative dehydration. <i>Journal of Membrane Science</i> , 2018, 563, 903-913.	8.2	55
103	COF membranes with uniform and exchangeable facilitated transport carriers for efficient carbon capture. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12636-12643.	10.3	55
104	Synthesis and characterization of g-C <sub>3</sub> N <sub>4</sub> nanosheet modified polyamide nanofiltration membranes with good permeation and antifouling properties. <i>RSC Advances</i> , 2016, 6, 112148-112157.	3.6	54
105	110th Anniversary: Mixed Matrix Membranes with Fillers of Intrinsic Nanopores for Gas Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 7706-7724.	3.7	54
106	Dopamine-Modified Alginate Beads Reinforced by Cross-Linking via Titanium Coordination or Self-Polymerization and Its Application in Enzyme Immobilization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14828-14836.	3.7	53
107	Amino-functionalized ZIF-7 embedded polymers of intrinsic microporosity membrane with enhanced selectivity for biogas upgrading. <i>Journal of Membrane Science</i> , 2020, 602, 117970.	8.2	53
108	Modification of covalent organic frameworks with dual functions ionic liquids for membrane-based biogas upgrading. <i>Journal of Membrane Science</i> , 2020, 600, 117841.	8.2	53

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109	Fabrication of chitosan/zwitterion functionalized titania-silica hybrid membranes with improved proton conductivity. <i>Journal of Membrane Science</i> , 2014, 469, 355-363.	8.2	52
110	An Interface-Bridged Organic-Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. <i>Angewandte Chemie</i> , 2020, 132, 16737-16744.	2.0	52
111	Zwitterionic functionalized cage-like porous organic frameworks for nanofiltration membrane with high efficiency water transport channels and anti-fouling property. <i>Journal of Membrane Science</i> , 2018, 548, 194-202.	8.2	51
112	Oil-Water-Oil Triphase Synthesis of Ionic Covalent Organic Framework Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27078-27085.	13.8	51
113	Control of Edge/in-Plane Interactions toward Robust, Highly Proton Conductive Graphene Oxide Membranes. <i>ACS Nano</i> , 2019, 13, 10366-10375.	14.6	50
114	Incorporating one-dimensional aminated titania nanotubes into sulfonated poly(ether ether ketone) membrane to construct CO <sub>2</sub> -facilitated transport pathways for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2015, 488, 13-29.	8.2	49
115	A highly proton-conducting, methanol-blocking Nafion composite membrane enabled by surface-coating crosslinked sulfonated graphene oxide. <i>Chemical Communications</i> , 2016, 52, 2173-2176.	4.1	49
116	Zwitterionic Microcapsules as Water Reservoirs and Proton Carriers within a Nafion Membrane To Confer High Proton Conductivity under Low Humidity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5362-5366.	8.0	48
117	Enhancing water retention and low-humidity proton conductivity of sulfonated poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock hydrophilicity-hydrophobicity. <i>Journal of Power Sources</i> , 2014, 248, 951-961.	7.8	48
118	Coordination-Enabled One-Step Assembly of Ultrathin, Hybrid Microcapsules with Weak pH-Response. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9178-9184.	8.0	48
119	Graphene Oxide-Based Solid Electrolytes with 3D Prepercolating Pathways for Efficient Proton Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1804944.	14.9	48
120	High-efficiency water-selective membranes from the solution-diffusion synergy of calcium alginate layer and covalent organic framework (COF) layer. <i>Journal of Membrane Science</i> , 2019, 572, 557-566.	8.2	48
121	Homointerface covalent organic framework membranes for efficient desalination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23178-23187.	10.3	48
122	Enhanced CO <sub>2</sub> separation properties by incorporating poly(ethylene glycol)-containing polymeric microspheres into polyimide membrane. <i>Journal of Membrane Science</i> , 2015, 473, 310-317.	8.2	47
123	Modulating interfacial polymerization with phytate as aqueous-phase additive for highly-permselective nanofiltration membranes. <i>Journal of Membrane Science</i> , 2022, 657, 120673.	8.2	47
124	Enhanced Proton Conductivity of Sulfonated Polysulfone Membranes under Low Humidity via the Incorporation of Multifunctional Graphene Oxide. <i>ACS Applied Nano Materials</i> , 2019, 2, 4734-4743.	5.0	46
125	Constructing CO <sub>2</sub> transport passageways in Matrimid® membranes using nanohydrogels for efficient carbon capture. <i>Journal of Membrane Science</i> , 2015, 474, 156-166.	8.2	45
126	Anti-inflammatory Mechanism of Geniposide: Inhibiting the Hyperpermeability of Fibroblast-Like Synoviocytes via the RhoA/p38MAPK/NF- $\kappa$ B/F-Actin Signal Pathway. <i>Frontiers in Pharmacology</i> , 2018, 9, 105.	3.5	45



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127	Construction of high selectivity and antifouling nanofiltration membrane via incorporating macrocyclic molecules into active layer. <i>Journal of Membrane Science</i> , 2020, 597, 117641.	8.2	45
128	Enhanced pervaporation performance of poly (dimethyl siloxane) membrane by incorporating titania microspheres with high silver ion loading. <i>Journal of Membrane Science</i> , 2011, 378, 382-392.	8.2	44
129	Bimetallic metal-organic frameworks nanocages as multi-functional fillers for water-selective membranes. <i>Journal of Membrane Science</i> , 2018, 545, 19-28.	8.2	44
130	Amino-functionalized POSS nanocage intercalated graphene oxide membranes for efficient biogas upgrading. <i>Journal of Membrane Science</i> , 2020, 596, 117733.	8.2	43
131	Ultrathin heterostructured covalent organic framework membranes with interfacial molecular sieving capacity for fast water-selective permeation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19328-19336.	10.3	43
132	Angiogenesis as a potential treatment strategy for rheumatoid arthritis. <i>European Journal of Pharmacology</i> , 2021, 910, 174500.	3.5	43
133	Nanocomposite membranes based on alginate matrix and high loading of pegylated POSS for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2017, 538, 86-95.	8.2	42
134	Constructing facilitated transport pathway in hybrid membranes by incorporating MoS <sub>2</sub> nanosheets. <i>Journal of Membrane Science</i> , 2018, 545, 29-37.	8.2	42
135	Novel anti-inflammatory target of geniposide: Inhibiting Itg $\beta$ 1/Ras-Erk1/2 signal pathway via the miRNA-124a in rheumatoid arthritis synovial fibroblasts. <i>International Immunopharmacology</i> , 2018, 65, 284-294.	3.8	42
136	Assembling covalent organic framework membranes via phase switching for ultrafast molecular transport. <i>Nature Communications</i> , 2022, 13, .	12.8	42
137	Preparation and performance of different amino acids functionalized titania-embedded sulfonated poly (ether ether ketone) hybrid membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2014, 463, 134-144.	8.2	41
138	Significantly enhanced CO <sub>2</sub> capture properties by synergy of zinc ion and sulfonate in Pebax-pitch hybrid membranes. <i>Journal of Membrane Science</i> , 2018, 549, 670-679.	8.2	41
139	Porous organosilicon nanotubes in pebax-based mixed-matrix membranes for biogas purification. <i>Journal of Membrane Science</i> , 2019, 573, 301-308.	8.2	41
140	2D layered double hydroxide membranes with intrinsic breathing effect toward CO <sub>2</sub> for efficient carbon capture. <i>Journal of Membrane Science</i> , 2020, 598, 117663.	8.2	41
141	Coordination polymer nanocapsules prepared using metal-organic framework templates for pH-responsive drug delivery. <i>Nanotechnology</i> , 2017, 28, 275601.	2.6	40
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