

# Yifan Li

## List of Publications by Year in descending order

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86  
papers

5,611  
citations

53660

45  
h-index

76769

74  
g-index

88  
all docs

88  
docs citations

88  
times ranked

4739  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-flux and solvent-selective membranes with aromatic functionalities and dual-layer structures. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51418.	1.3	1
2	Sulfonated TiO <sub>2</sub> quantum dots enabled constructing of bicarbonate highways in quaternary ammonium poly (ether ether ketone) membranes for efficient CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2022, 652, 120491.	4.1	2
3	MXene versus graphene oxide: Investigation on the effects of 2D nanosheets in mixed matrix membranes for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2021, 620, 118850.	4.1	65
4	Simultaneous Increase of Solvent Flux and Rejection of Thin-Film Composite Membranes by Incorporation of Dopamine-Modified Mesoporous Silica. <i>ACS Omega</i> , 2021, 6, 16241-16250.	1.6	2
5	miR-3065-3p promotes stemness and metastasis by targeting CRLF1 in colorectal cancer. <i>Journal of Translational Medicine</i> , 2021, 19, 429.	1.8	12
6	Grafting high content of imidazolium polymer brushes on graphene oxide for nanocomposite membranes with enhanced anion transport. <i>Reactive and Functional Polymers</i> , 2020, 146, 104447.	2.0	7
7	Carbon Quantum Dot-Enabled Tuning of the Microphase Structures of Poly(ether- <i>b</i> -amide) Membrane for CO <sub>2</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 14960-14969.	1.8	13
8	A fast response, self-powered and room temperature near infrared-terahertz photodetector based on a MAPbI <sub>3</sub> /PEDOT:PSS composite. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12148-12154.	2.7	41
9	Exploration of the Synergy Between 2D Nanosheets and a Non-2D Filler in Mixed Matrix Membranes for Gas Separation. <i>Frontiers in Chemistry</i> , 2020, 8, 58.	1.8	22
10	Enhanced CO <sub>2</sub> separation in membranes with anion-cation dual pathways. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 38, 355-365.	3.3	6
11	Two-dimensional nanochannel membranes for molecular and ionic separations. <i>Chemical Society Reviews</i> , 2020, 49, 1071-1089.	18.7	242
12	Oriented Zeolitic Imidazolate Framework (ZIF) Nanocrystal Films for Molecular Separation Membranes. <i>ACS Applied Nano Materials</i> , 2020, 3, 3839-3846.	2.4	20
13	Elucidating Ultrafast Molecular Permeation through Well-Defined 2D Nanochannels of Lamellar Membranes. <i>Angewandte Chemie</i> , 2019, 131, 18695-18700.	1.6	25
14	Elucidating Ultrafast Molecular Permeation through Well-Defined 2D Nanochannels of Lamellar Membranes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18524-18529.	7.2	87
15	Interface engineering of mixed matrix membrane via CO <sub>2</sub> -philic polymer brush functionalized graphene oxide nanosheets for efficient gas separation. <i>Journal of Membrane Science</i> , 2019, 586, 23-33.	4.1	42
16	Mixed matrix membrane contactor containing core-shell hierarchical Cu@4A filler for efficient SO <sub>2</sub> capture. <i>Journal of Hazardous Materials</i> , 2019, 376, 160-169.	6.5	16
17	Nanoparticle-Assembled Thin Film with Amphipathic Nanopores for Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17804-17813.	4.0	44
18	Beetle-Inspired Assembly of Heterostructured Lamellar Membranes with Polymer Cluster-Patterned Surface for Enhanced Molecular Permeation. <i>Advanced Functional Materials</i> , 2019, 29, 1900819.	7.8	34

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19	Mixed matrix membranes containing well-designed composite microcapsules for CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2019, 572, 650-657.	4.1	38
20	Mixed matrix membranes comprising aminosilane-functionalized graphene oxide for enhanced CO <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2019, 570-571, 343-354.	4.1	175
21	Adsorption-Assisted Interfacial Polymerization toward Ultrathin Active Layers for Ultrafast Organic Permeation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10445-10453.	4.0	32
22	Synergistic effects of zeolite imidazole framework@graphene oxide composites in humidified mixed matrix membranes on CO <sub>2</sub> separation. <i>RSC Advances</i> , 2018, 8, 6099-6109.	1.7	93
23	Porous nanofibrous composite membrane for unparalleled proton conduction. <i>Journal of Membrane Science</i> , 2018, 550, 136-144.	4.1	25
24	Investigating the nanostructures and proton transfer properties of Nafion-GO hybrid membranes. <i>Journal of Membrane Science</i> , 2018, 555, 327-336.	4.1	51
25	Molecular-Level Hybridization of Nafion with Quantum Dots for Highly Enhanced Proton Conduction. <i>Advanced Materials</i> , 2018, 30, e1707516.	11.1	122
26	Carbon dots-incorporated composite membrane towards enhanced organic solvent nanofiltration performance. <i>Journal of Membrane Science</i> , 2018, 549, 1-11.	4.1	83
27	Polydopamine-enabled distribution of polysiloxane domains in polyamide thin-film nanocomposite membranes for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2018, 205, 140-150.	3.9	12
28	Acid-base block copolymer brushes grafted graphene oxide to enhance proton conduction of polymer electrolyte membrane. <i>Journal of Membrane Science</i> , 2017, 531, 47-58.	4.1	39
29	Novel thin-film nanocomposite membranes filled with multi-functional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets for task-specific solvent transport. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 100, 139-149.	3.8	90
30	Perspectives on water-facilitated CO <sub>2</sub> capture materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6794-6816.	5.2	56
31	Channel-facilitated molecule and ion transport across polymer composite membranes. <i>Chemical Society Reviews</i> , 2017, 46, 6725-6745.	18.7	90
32	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO <sub>2</sub> Separations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14246-14251.	7.2	121
33	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO <sub>2</sub> Separations. <i>Angewandte Chemie</i> , 2017, 129, 14434-14439.	1.6	13
34	Bioadhesion-inspired fabrication of robust thin-film composite membranes with tunable solvent permeation properties. <i>RSC Advances</i> , 2016, 6, 103981-103992.	1.7	15
35	Tuning the microstructure and permeation property of thin film nanocomposite membrane by functionalized inorganic nanospheres for solvent resistant nanofiltration. <i>Separation and Purification Technology</i> , 2016, 165, 60-70.	3.9	49
36	Polymer-inorganic hybrid proton conductive membranes: Effect of the interfacial transfer pathways. <i>Electrochimica Acta</i> , 2016, 212, 426-439.	2.6	44

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37	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Filler Effect on the Proton Conduction Property of Polymer Electrolyte Membrane. ACS Applied Materials & Interfaces, 2016, 8, 20352-20363.	4.0	104
38	Comparison of facilitated transport behavior and separation properties of membranes with imidazole groups and zinc ions as CO <sub>2</sub> carriers. Journal of Membrane Science, 2016, 505, 44-52.	4.1	34
39	Embedding sulfonated lithium ion-sieves into polyelectrolyte membrane to construct efficient proton conduction pathways. Journal of Membrane Science, 2016, 501, 109-122.	4.1	22
40	Constructing dual-interfacial proton-conducting pathways in nanofibrous composite membrane for efficient proton transfer. Journal of Membrane Science, 2016, 505, 108-118.	4.1	43
41	Constructing Ionic Liquid-Filled Proton Transfer Channels within Nanocomposite Membrane by Using Functionalized Graphene Oxide. ACS Applied Materials & Interfaces, 2016, 8, 588-599.	4.0	67
42	Tuning the performance of anion exchange membranes by embedding multifunctional nanotubes into a polymer matrix. Journal of Membrane Science, 2016, 498, 242-253.	4.1	68
43	Constructing CO <sub>2</sub> transport passageways in Matrimid® membranes using nanohydrogels for efficient carbon capture. Journal of Membrane Science, 2015, 474, 156-166.	4.1	45
44	Composite proton exchange membranes based on phosphosilicate sol and sulfonated poly(ether ether) Tj ETQq0 0.0 rgBT /Oyerlock 10	4.0	42
45	Polyelectrolyte microcapsules as ionic liquid reservoirs within ionomer membrane to confer high anhydrous proton conductivity. Journal of Power Sources, 2015, 279, 667-677.	4.0	28
46	Enhanced proton conductivities of nanofibrous composite membranes enabled by acid-base pairs under hydrated and anhydrous conditions. Journal of Membrane Science, 2015, 482, 1-12.	4.1	68
47	Anionic surfactant-doped Pebax membrane with optimal free volume characteristics for efficient CO <sub>2</sub> separation. Journal of Membrane Science, 2015, 493, 460-469.	4.1	34
48	Tuning the Performance of Composite Membranes by Optimizing PDMS Content and Cross-Linking Time for Solvent Resistant Nanofiltration. Industrial & Engineering Chemistry Research, 2015, 54, 6175-6186.	1.8	18
49	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. Journal of Membrane Science, 2015, 488, 13-29.	4.1	49
50	Constructing proton-conductive highways within an ionomer membrane by embedding sulfonated polymer brush modified graphene oxide. Journal of Power Sources, 2015, 286, 445-457.	4.0	140
51	Mixed matrix membranes composed of sulfonated poly(ether ether ketone) and a sulfonated metal-organic framework for gas separation. Journal of Membrane Science, 2015, 488, 67-78.	4.1	91
52	Improved oil/water emulsion separation performance of PVC/CPVC blend ultrafiltration membranes by fluorination treatment. Desalination and Water Treatment, 2015, 55, 304-314.	1.0	12
53	Nanohybrid membranes with hydroxide ion transport highways constructed from imidazolium-functionalized graphene oxide. RSC Advances, 2015, 5, 88736-88747.	1.7	19
54	Graphene oxide-embedded nanocomposite membrane for solvent resistant nanofiltration with enhanced rejection ability. Chemical Engineering Science, 2015, 138, 227-238.	1.9	110

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55	Anhydrous proton exchange membranes comprising of chitosan and phosphorylated graphene oxide for elevated temperature fuel cells. <i>Journal of Membrane Science</i> , 2015, 495, 48-60.	4.1	105
56	Tunable Solvent Permeation Properties of Thin Film Nanocomposite Membrane by Constructing Dual-Pathways Using Cyclodextrins for Organic Solvent Nanofiltration. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1925-1933.	3.2	47
57	Synergistic proton transfer through nanofibrous composite membranes by suitably combining proton carriers from the nanofiber mat and pore-filling matrix. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21832-21841.	5.2	66
58	Trapping bound water within a polymer electrolyte membrane of calcium phosphotungstate for efficient CO <sub>2</sub> capture. <i>Chemical Communications</i> , 2015, 51, 1901-1904.	2.2	15
59	Anhydrous proton exchange membrane of sulfonated poly(ether ether ketone) enabled by polydopamine-modified silica nanoparticles. <i>Electrochimica Acta</i> , 2015, 152, 443-455.	2.6	150
60	Enhanced CO <sub>2</sub> separation properties by incorporating poly(ethylene glycol)-containing polymeric submicrospheres into polyimide membrane. <i>Journal of Membrane Science</i> , 2015, 473, 310-317.	4.1	47
61	Facilitated transport of small molecules and ions for energy-efficient membranes. <i>Chemical Society Reviews</i> , 2015, 44, 103-118.	18.7	211
62	Enhancing Structural Stability and Pervaporation Performance of Composite Membranes by Coating Gelatin onto Hydrophilically Modified Support Layer. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 19-27.	1.7	9
63	Pervaporation dehydration of ethanol by hyaluronic acid/sodium alginate two-active-layer composite membranes. <i>Carbohydrate Polymers</i> , 2014, 99, 158-165.	5.1	45
64	Pebax-PEG-MWCNT hybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Membrane Science</i> , 2014, 460, 62-70.	4.1	223
65	Constructing facile proton-conduction pathway within sulfonated poly(ether ether ketone) membrane by incorporating poly(phosphonic acid)/silica nanotubes. <i>Journal of Power Sources</i> , 2014, 259, 203-212.	4.0	65
66	Enhanced proton conductivity of proton exchange membranes by incorporating sulfonated metal-organic frameworks. <i>Journal of Power Sources</i> , 2014, 262, 372-379.	4.0	117
67	Improved poly(3-hydroxybutyrate) production in <i>Escherichia coli</i> by inactivation of cytochrome bd-II oxidase or/and NDH-II dehydrogenase in low efficient respiratory chains. <i>Journal of Biotechnology</i> , 2014, 192, 170-176.	1.9	10
68	Efficient CO <sub>2</sub> capture by humidified polymer electrolyte membranes with tunable water state. <i>Energy and Environmental Science</i> , 2014, 7, 1489.	15.6	119
69	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.	4.1	103
70	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.	4.0	48
71	Enhanced CO <sub>2</sub> Permeability of Membranes by Incorporating Polyzwitterion@CNT Composite Particles into Polyimide Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13051-13060.	4.0	73
72	High-Performance Composite Membrane with Enriched CO <sub>2</sub> -philic Groups and Improved Adhesion at the Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6654-6663.	4.0	61

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73	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.	4.1	196
74	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.	4.0	84
75	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.	4.1	84
76	Enhancing water retention and low-humidity proton conductivity of sulfonated poly(ether ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 hydrophilicityâ€“hydrophobicity. <i>Journal of Power Sources</i> , 2014, 248, 951-961.	4.0	48
77	Bioinspired Membranes. , 2014, , 1-3.		0
78	Recent advances in the fabrication of advanced composite membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10058.	5.2	252
79	Fluorous Metal-Organic Frameworks with Enhanced Stability and High H <sub>2</sub> /CO <sub>2</sub> Storage Capacities. <i>Scientific Reports</i> , 2013, 3, 3312.	1.6	136
80	High performance composite membranes with a polycarbophil calcium transition layer for pervaporation dehydration of ethanol. <i>Journal of Membrane Science</i> , 2013, 429, 409-417.	4.1	40
81	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.	5.2	90
82	Bioadhesion-inspired polymerâ€“inorganic nanohybrid membranes with enhanced CO <sub>2</sub> capture properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 19617.	6.7	57
83	Enhancement of Proton Conduction at Low Humidity by Incorporating Imidazole Microcapsules into Polymer Electrolyte Membranes. <i>Advanced Functional Materials</i> , 2012, 22, 4539-4546.	7.8	135
84	Enhancing the permselectivity of pervaporation membrane by constructing the active layer through alternative self-assembly and spin-coating. <i>Journal of Membrane Science</i> , 2012, 390-391, 218-225.	4.1	19
85	Enhanced anti-swelling property and dehumidification performance by sodium alginateâ€“poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 211-220.	4.1	47
86	Sodium alginateâ€“gelatin polyelectrolyte complex membranes with both high water vapor permeance and high permselectivity. <i>Journal of Membrane Science</i> , 2011, 375, 304-312.	4.1	86