

# Quan-Fu An

## List of Publications by Year in descending order

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197  
papers

9,668  
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38742

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197  
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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying <i>d</i> -Spacing. <i>Chemistry of Materials</i> , 2014, 26, 2983-2990.	6.7	644
2	High-Flux Positively Charged Nanocomposite Nanofiltration Membranes Filled with Poly(dopamine) Modified Multiwall Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6693-6700.	8.0	310
3	Graphene oxide membranes with stable porous structure for ultrafast water transport. <i>Nature Nanotechnology</i> , 2021, 16, 337-343.	31.5	301
4	Effect of microstructure of graphene oxide fabricated through different self-assembly techniques on 1-butanol dehydration. <i>Journal of Membrane Science</i> , 2015, 477, 93-100.	8.2	278
5	Polyelectrolyte complex membranes for pervaporation, nanofiltration and fuel cell applications. <i>Journal of Membrane Science</i> , 2011, 379, 19-45.	8.2	217
6	Influence of polyvinyl alcohol on the surface morphology, separation and anti-fouling performance of the composite polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2011, 367, 158-165.	8.2	213
7	Pressure-assisted self-assembly technique for fabricating composite membranes consisting of highly ordered selective laminate layers of amphiphilic graphene oxide. <i>Carbon</i> , 2014, 68, 670-677.	10.3	207
8	Study on a novel nanofiltration membrane prepared by interfacial polymerization with zwitterionic amine monomers. <i>Journal of Membrane Science</i> , 2013, 431, 171-179.	8.2	192
9	Recent development of fiber-optic chemical sensors and biosensors: Mechanisms, materials, micro/nano-fabrications and applications. <i>Coordination Chemistry Reviews</i> , 2018, 376, 348-392.	18.8	179
10	Phosphonium Modification Leads to Ultrapervaporable Antibacterial Polyamide Composite Membranes with Unreduced Thickness. <i>Advanced Materials</i> , 2020, 32, e2001383.	21.0	150
11	Sulfated polyelectrolyte complex nanoparticles structured nanofiltration membrane for dye desalination. <i>Chemical Engineering Journal</i> , 2017, 307, 526-536.	12.7	141
12	A novel route for surface zwitterionic functionalization of polyamide nanofiltration membranes with improved performance. <i>Journal of Membrane Science</i> , 2015, 490, 311-320.	8.2	138
13	Development of antifouling nanofiltration membrane with zwitterionic functionalized monomer for efficient dye/salt selective separation. <i>Journal of Membrane Science</i> , 2020, 601, 117795.	8.2	138
14	Synthesis and characterization of soluble chitosan/sodium carboxymethyl cellulose polyelectrolyte complexes and the pervaporation dehydration of their homogeneous membranes. <i>Journal of Membrane Science</i> , 2009, 333, 68-78.	8.2	136
15	Tuning nanostructure of graphene oxide/polyelectrolyte LbL assemblies by controlling pH of GO suspension to fabricate transparent and super gas barrier films. <i>Nanoscale</i> , 2013, 5, 9081.	5.6	134
16	Recent developments in nanofiltration membranes based on nanomaterials. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1639-1652.	3.5	129
17	Superhydrophilic and antibacterial zwitterionic polyamide nanofiltration membranes for antibiotics separation. <i>Journal of Membrane Science</i> , 2016, 510, 122-130.	8.2	125
18	Vacuum-assisted assembly of ZIF-8@GO composite membranes on ceramic tube with enhanced organic solvent nanofiltration performance. <i>Journal of Membrane Science</i> , 2018, 545, 158-166.	8.2	123

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19	Novel composite nanofiltration membranes containing zwitterions with high permeate flux and improved anti-fouling performance. <i>Journal of Membrane Science</i> , 2012, 390-391, 243-253.	8.2	120
20	Bio-inspired fabrication of high perm-selectivity and anti-fouling membranes based on zwitterionic polyelectrolyte nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4224-4231.	10.3	119
21	Constructing zwitterionic surface of nanofiltration membrane for high flux and antifouling performance. <i>Journal of Membrane Science</i> , 2017, 541, 29-38.	8.2	117
22	Nanofiltration membranes consisting of quaternized polyelectrolyte complex nanoparticles for heavy metal removal. <i>Chemical Engineering Journal</i> , 2019, 359, 994-1005.	12.7	112
23	High-flux zwitterionic nanofiltration membrane constructed by in-situ introduction method for monovalent salt/antibiotics separation. <i>Journal of Membrane Science</i> , 2020, 593, 117441.	8.2	110
24	Microstructure and performance of zwitterionic polymeric nanoparticle/polyamide thin-film nanocomposite membranes for salts/organics separation. <i>Journal of Membrane Science</i> , 2018, 548, 559-571.	8.2	109
25	A novel type of polyelectrolyte complex/MWCNT hybrid nanofiltration membranes for water softening. <i>Journal of Membrane Science</i> , 2015, 492, 412-421.	8.2	96
26	Formation mechanism and crystallization of poly(vinylidene fluoride) membrane via immersion precipitation method. <i>Desalination</i> , 2009, 236, 170-178.	8.2	95
27	High-flux and fouling-resistant reverse osmosis membrane prepared with incorporating zwitterionic amine monomers via interfacial polymerization. <i>Desalination</i> , 2016, 381, 100-110.	8.2	89
28	Constructing a selective blocked-nanolayer on nanofiltration membrane via surface-charge inversion for promoting Li <sup>+</sup> permselectivity over Mg <sup>2+</sup> . <i>Journal of Membrane Science</i> , 2021, 635, 119504.	8.2	88
29	Preparation of novel positively charged copolymer membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2011, 376, 254-265.	8.2	85
30	Enhancing polymer/graphene oxide gas barrier film properties by introducing new crystals. <i>Carbon</i> , 2014, 75, 443-451.	10.3	81
31	Effect of zero shear viscosity of the casting solution on the morphology and permeability of polysulfone membrane prepared via the phase-inversion process. <i>Desalination</i> , 2010, 260, 43-50.	8.2	75
32	Fabrication and performance of a new type of charged nanofiltration membrane based on polyelectrolyte complex. <i>Journal of Membrane Science</i> , 2010, 357, 80-89.	8.2	74
33	Fabrication of hydrothermally reduced graphene oxide/chitosan composite membranes with a lamellar structure on methanol dehydration. <i>Carbon</i> , 2017, 117, 112-119.	10.3	69
34	Zwitterions functionalized multi-walled carbon nanotubes/polyamide hybrid nanofiltration membranes for monovalent/divalent salts separation. <i>Separation and Purification Technology</i> , 2018, 206, 59-68.	7.9	69
35	Polyelectrolyte layer-by-layer self-assembly enhanced by electric field and their multilayer membranes for separating isopropanol/water mixtures. <i>Journal of Membrane Science</i> , 2008, 320, 73-77.	8.2	68
36	Construction of nonfouling nanofiltration membrane via introducing uniformly tunable zwitterionic layer. <i>Journal of Membrane Science</i> , 2019, 583, 152-162.	8.2	68

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37	Mussel-inspired zwitterionic dopamine nanoparticles as building blocks for constructing salt selective nanocomposite membranes. <i>Journal of Membrane Science</i> , 2019, 572, 140-151.	8.2	68
38	Tunable interlayer spacing of composite graphene oxide-framework membrane for acetic acid dehydration. <i>Carbon</i> , 2017, 123, 660-667.	10.3	67
39	Compatibility of PVC/EVA blends and the pervaporation of their blend membranes for benzene/cyclohexane mixtures. <i>Journal of Membrane Science</i> , 2003, 222, 113-122.	8.2	65
40	Pervaporation dehydration of isopropanol using homogeneous polyelectrolyte complex membranes of poly(diallyldimethylammonium chloride)/sodium carboxymethyl cellulose. <i>Journal of Membrane Science</i> , 2009, 329, 175-182.	8.2	65
41	Superfast Water Transport Zwitterionic Polymeric Nanofluidic Membrane Reinforced by Metal-Organic Frameworks. <i>Advanced Materials</i> , 2021, 33, e2102292.	21.0	64
42	Effect of coagulation bath temperature on formation mechanism of poly(vinylidene fluoride) membrane. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1656-1663.	2.6	63
43	Novel interfacially-polymerized polyamide thin-film composite membranes: Studies on characterization, pervaporation, and positron annihilation spectroscopy. <i>Polymer</i> , 2011, 52, 2414-2421.	3.8	63
44	Pervaporation dehydration of ethanol by using polyelectrolyte complex membranes based on poly (N-ethyl-4-vinylpyridinium bromide) and sodium carboxymethyl cellulose. <i>Journal of Membrane Science</i> , 2010, 347, 183-192.	8.2	58
45	Novel separation membranes based on zwitterionic colloid particles: tunable selectivity and enhanced antifouling property. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12213.	10.3	55
46	Synergistic effects of CNT and GO on enhancing mechanical properties and separation performance of polyelectrolyte complex membranes. <i>Materials and Design</i> , 2017, 119, 38-46.	7.0	55
47	Studies on Structures and Ultrahigh Permeability of Novel Polyelectrolyte Complex Membranes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8100-8106.	2.6	54
48	Comparison between Free Volume Characteristics of Composite Membranes Fabricated through Static and Dynamic Interfacial Polymerization Processes. <i>Macromolecules</i> , 2012, 45, 3428-3435.	4.8	53
49	Study on kinetics of controlled/living radical polymerization of acrylonitrile by RAFT technique. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1973-1977.	2.3	52
50	A facile route for fabricating novel polyelectrolyte complex membrane with high pervaporation performance in isopropanol dehydration. <i>Journal of Membrane Science</i> , 2008, 320, 8-12.	8.2	52
51	Fabrication of chitosan/PDMCHEA blend positively charged membranes with improved mechanical properties and high nanofiltration performances. <i>Desalination</i> , 2015, 357, 8-15.	8.2	52
52	Pervaporation dehydration of acetic acid using NH <sub>2</sub> -UiO-66/PEI mixed matrix membranes. <i>Separation and Purification Technology</i> , 2017, 186, 20-27.	7.9	52
53	Enhanced butanol selectivity of pervaporation membrane with fluorinated monolayer on polydimethylsiloxane surface. <i>Journal of Membrane Science</i> , 2018, 548, 215-222.	8.2	52
54	Facile fabrication of polyelectrolyte complex/carbon nanotube nanocomposites with improved mechanical properties and ultra-high separation performance. <i>Journal of Materials Chemistry</i> , 2009, 19, 8732.	6.7	50

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55	Fabrication of polysulfone ultrafiltration membranes of a density gradient cross section with good anti-pressure stability and relatively high water flux. <i>Desalination</i> , 2011, 269, 239-248.	8.2	50
56	Highly sensitive and fast responsive fiber-optic modal interferometric pH sensor based on polyelectrolyte complex and polyelectrolyte self-assembled nanocoating. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3623-3631.	3.7	49
57	Layer-by-layer self-assembly of polyelectrolyte complexes and their multilayer films for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2010, 346, 335-343.	8.2	46
58	Bio-inspired deposition of polydopamine on PVDF followed by interfacial cross-linking with trimesoyl chloride as means of preparing composite membranes for isopropanol dehydration. <i>Journal of Membrane Science</i> , 2018, 557, 58-66.	8.2	45
59	Synthesis, characterization and flocculation performance of zwitterionic copolymer of acrylamide and 4-vinylpyridine propylsulfobetaine. <i>European Polymer Journal</i> , 2009, 45, 1403-1411.	5.4	44
60	A novel method for fabricating polyelectrolyte complex/inorganic nanohybrid membranes with high isopropanol dehydration performance. <i>Journal of Membrane Science</i> , 2009, 345, 233-241.	8.2	44
61	Fabrication of antifouling reverse osmosis membranes by incorporating zwitterionic colloids nanoparticles for brackish water desalination. <i>Desalination</i> , 2017, 416, 35-44.	8.2	44
62	Investigation of fine-structure of polyamide thin-film composite membrane under swelling effect by positron annihilation lifetime spectroscopy and molecular dynamics simulation. <i>Journal of Membrane Science</i> , 2012, 417-418, 201-209.	8.2	43
63	Influence of integrating graphene oxide quantum dots on the fine structure characterization and alcohol dehydration performance of pervaporation composite membrane. <i>Journal of Membrane Science</i> , 2019, 576, 36-47.	8.2	43
64	Studies on pervaporation characteristics of polyacrylonitrile- <i>b</i> -poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (glycol)â€™ solutions. <i>Journal of Membrane Science</i> , 2008, 311, 284-293.	8.2	42
65	Preparation and characterization of polyelectrolyte complex membranes bearing alkyl side chains for the pervaporation dehydration of alcohols. <i>Journal of Membrane Science</i> , 2013, 429, 181-189.	8.2	42
66	AMOC Positron Annihilation Study of Zwitterionic Nanofiltration Membranes: Correlation between Fine Structure and Ultrahigh Permeability. <i>Macromolecules</i> , 2013, 46, 2228-2234.	4.8	42
67	Polyacrylonitrile-block-poly(methyl acrylate) membranes 2: Swelling behavior and pervaporation performance for separating benzene/cyclohexane. <i>Journal of Membrane Science</i> , 2008, 313, 60-67.	8.2	40
68	Cross-linked HTPB-based polyurethaneurea membranes for recovery of ethyl acetate from aqueous solution by pervaporation. <i>Journal of Membrane Science</i> , 2008, 325, 932-939.	8.2	40
69	Physicochemical effects of hydrolyzed asymmetric polyacrylonitrile membrane microstructure on dehydrating butanol. <i>Journal of Membrane Science</i> , 2015, 490, 275-281.	8.2	40
70	pH-responsive nanofiltration membranes containing carboxybetaine with tunable ion selectivity for charge-based separations. <i>Journal of Membrane Science</i> , 2016, 520, 294-302.	8.2	40
71	Correlating PSf Support Physicochemical Properties with the Formation of Piperazine-Based Polyamide and Evaluating the Resultant Nanofiltration Membrane Performance. <i>Polymers</i> , 2017, 9, 505.	4.5	40
72	Microstructural characterization and evaluation of pervaporation performance of thin-film composite membranes fabricated through interfacial polymerization on hydrolyzed polyacrylonitrile substrate. <i>Journal of Membrane Science</i> , 2019, 583, 31-39.	8.2	39

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73	Electrical Tunable PVDF/Graphene Membrane for Controlled Molecule Separation. <i>Chemistry of Materials</i> , 2020, 32, 5750-5758.	6.7	39
74	Enhanced permeance for PDMS organic solvent nanofiltration membranes using modified mesoporous silica nanoparticles. <i>Journal of Membrane Science</i> , 2020, 612, 118257.	8.2	39
75	Swelling behavior of palygorskite-polyacrylamide hybrid membrane in xylene mixtures and its pervaporation performance for separating the xylene isomers. <i>Journal of Membrane Science</i> , 2007, 288, 280-289.	8.2	38
76	Preparation of acid-resistant PEI/SA composite membranes for the pervaporation dehydration of ethanol at low pH. <i>Separation and Purification Technology</i> , 2018, 192, 205-212.	7.9	38
77	Tuning molecular sieving channels of layered double hydroxides membrane with direct intercalation of amino acids. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17148-17155.	10.3	38
78	Fabrication of PVDF hollow fiber membranes via integrated phase separation for membrane distillation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 487-494.	5.3	38
79	Morphology and Formation Mechanism of Poly(Vinylidene Fluoride) Membranes Prepared with Immerse Precipitation: Effect of Dissolving Temperature. <i>Journal of Macromolecular Science - Physics</i> , 2009, 48, 696-709.	1.0	37
80	Synthesis and Characterization of Solution-Processable Polyelectrolyte Complexes and Their Homogeneous Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 90-96.	8.0	37
81	Speedy fabrication of free-standing layer-by-layer multilayer films by using polyelectrolyte complex particles as building blocks. <i>Journal of Materials Chemistry</i> , 2009, 19, 8448.	6.7	36
82	Polyelectrolyte layer-by-layer self-assembly at vibration condition and the pervaporation performance of assembly multilayer films in dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2010, 358, 43-50.	8.2	36
83	Engineering novel polyelectrolyte complex membranes with improved mechanical properties and separation performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7296-7303.	10.3	36
84	Preparation and characterization of sulfated carboxymethyl cellulose nanofiltration membranes with improved water permeability. <i>Desalination</i> , 2014, 338, 74-83.	8.2	35
85	Tailoring the asymmetric structure of polyamide reverse osmosis membrane with self-assembled aromatic nanoparticles for high-efficient removal of organic micropollutants. <i>Chemical Engineering Journal</i> , 2021, 416, 129080.	12.7	35
86	Preparation of pH-responsive phenolphthalein poly(ether sulfone) membrane by redox-graft pore-filling polymerization technique. <i>Journal of Membrane Science</i> , 2007, 287, 257-263.	8.2	34
87	Poly(sodium vinylsulfonate)/chitosan membranes with sulfonate ionic cross-linking and free sulfate groups: preparation and application in alcohol dehydration. <i>Journal of Membrane Science</i> , 2016, 510, 220-228.	8.2	34
88	Recent Advances in the Fabrication of Membranes Containing $\alpha$ -cyclon Pairs for Nanofiltration Processes. <i>Polymers</i> , 2017, 9, 715.	4.5	34
89	One-Step Surface Grafting Method for Preparing Zwitterionic Nanofiltration Membrane via In Situ Introduction of Initiator in Interfacial Polymerization. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1022-1033.	4.4	34
90	Facile fabrication of mixed matrix membranes from simultaneously polymerized hyperbranched polymer/modified graphene oxide for MTBE/MeOH separation. <i>Journal of Membrane Science</i> , 2018, 559, 8-18.	8.2	33

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91	Covalent organic frameworks hybrid membrane with optimized mass transport nanochannel for aromatic/aliphatic mixture pervaporation. <i>Journal of Membrane Science</i> , 2020, 598, 117652.	8.2	33
92	Poly(vinyl alcohol)/polyelectrolyte complex blend membrane for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2009, 343, 53-61.	8.2	32
93	Influences of Solution Property and Charge Density on the Self-Assembly Behavior of Water-Insoluble Polyelectrolyte Sulfonated Poly(sulphone) Sodium Salts. <i>Langmuir</i> , 2008, 24, 2110-2117.	3.5	31
94	High permeance nanofiltration thin film composites with a polyelectrolyte complex top layer containing graphene oxide nanosheets. <i>Journal of Membrane Science</i> , 2017, 540, 391-400.	8.2	31
95	MoS <sub>2</sub> /polyelectrolytes hybrid nanofiltration (NF) membranes with enhanced permselectivity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 84, 196-202.	5.3	31
96	The potential of pervaporation for biofuel recovery from fermentation: An energy consumption point of view. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1296-1306.	3.5	31
97	Surface morphology and pervaporation performance of electric field enhanced multilayer membranes. <i>Journal of Membrane Science</i> , 2009, 328, 141-147.	8.2	30
98	Fabrication and characterization of novel SiO <sub>2</sub> -PAMPS/PSF hybrid ultrafiltration membrane with high water flux. <i>Desalination</i> , 2012, 297, 59-71.	8.2	30
99	A study on high-performance composite membranes comprising heterogeneous polyamide layers on an electrospun substrate for ethanol dehydration. <i>Journal of Membrane Science</i> , 2014, 470, 513-523.	8.2	30
100	Acid-Resistance and Self-Repairing Supramolecular Nanoparticle Membranes via Hydrogen-Bonding for Sustainable Molecules Separation. <i>Advanced Science</i> , 2021, 8, e2102594.	11.2	30
101	Pervaporation characteristics of ethylene-vinyl acetate copolymer membranes with different composition for recovery of ethyl acetate from aqueous solution. <i>Journal of Membrane Science</i> , 2007, 305, 152-159.	8.2	29
102	Interfacial self-assembly of cellulose-based polyelectrolyte complexes: pattern formation of fractal aggregates. <i>Soft Matter</i> , 2010, 6, 1129.	2.7	29
103	Tailoring the structure of polyamide thin film composite membrane with zwitterions to achieve high water permeability and antifouling property. <i>RSC Advances</i> , 2015, 5, 98730-98739.	3.6	29
104	A comprehensive study on phase inversion behavior of a novel polysulfate membrane for high-performance ultrafiltration applications. <i>Journal of Membrane Science</i> , 2020, 610, 118404.	8.2	29
105	Chlorine-resistant positively charged polyamide nanofiltration membranes for heavy metal ions removal. <i>Separation and Purification Technology</i> , 2021, 275, 119264.	7.9	29
106	Controllable disintegration of temperature-responsive self-assembled multilayer film based on polybetaine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 270-279.	4.7	27
107	Bio-inspired polyelectrolyte complex/graphene oxide nanocomposite membranes with enhanced tensile strength and ultra-low gas permeability. <i>Polymer Chemistry</i> , 2013, 4, 4298.	3.9	27
108	Construction of well-arranged graphene oxide/polyelectrolyte complex nanoparticles membranes for pervaporation ethylene glycol dehydration. <i>Journal of Membrane Science</i> , 2019, 577, 104-112.	8.2	27

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109	A novel fast response fiber-optic pH sensor based on nanoporous self-assembled multilayer films. <i>Journal of Materials Chemistry</i> , 2010, 20, 7754.	6.7	26
110	The chemical crosslinking of polyelectrolyte complex colloidal particles and the pervaporation performance of their membranes. <i>Journal of Membrane Science</i> , 2011, 385-386, 132-140.	8.2	26
111	Polyelectrolyte complex nanofiltration membranes: performance modulation via casting solution pH. <i>RSC Advances</i> , 2014, 4, 52808-52814.	3.6	26
112	Novel polyelectrolyte complex membranes containing free sulfate groups with improved pervaporation dehydration of ethanol. <i>Journal of Membrane Science</i> , 2014, 452, 73-81.	8.2	26
113	“Mix-Then-On-Demand-Complex” In Situ Cascade Anionization and Complexation of Graphene Oxide for High-Performance Nanofiltration Membranes. <i>ACS Nano</i> , 2021, 15, 4440-4449.	14.6	26
114	Intensification of mass transfer for zwitterionic amine monomers in interfacial polymerization to fabricate monovalent salt/antibiotics separation membrane. <i>Journal of Membrane Science</i> , 2022, 643, 120050.	8.2	26
115	Layer-by-layer self-assembly, controllable disintegration of polycarboxybetaine multilayers and preparation of free-standing films at physiological conditions. <i>Journal of Materials Chemistry</i> , 2010, 20, 1467-1474.	6.7	25
116	Pervaporation separation of ethanol/water mixture by UV/O <sub>3</sub> -modified PDMS membranes. <i>Separation and Purification Technology</i> , 2012, 100, 15-21.	7.9	25
117	Polyelectrolyte nanoparticles based thin-film nanocomposite (TFN) membranes for amino acids separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 209-220.	5.8	25
118	Fabrication of MOF derivatives composite membrane via in-situ sulfurization for dye/salt separation. <i>Journal of Membrane Science</i> , 2022, 645, 120211.	8.2	25
119	Fabrication of free-standing polyelectrolyte multilayer films: A method using polysulfobetaine-containing films as sacrificial layers. <i>Journal of Colloid and Interface Science</i> , 2009, 340, 35-41.	9.4	24
120	Characterization of a Thermoresponsive Chitosan Derivative as a Potential Draw Solute for Forward Osmosis. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11935-11942.	10.0	24
121	Low-voltage driven flexible organic thin-film transistor humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129887.	7.8	24
122	Influence of the dilute-solution properties of cellulose acetate in solvent mixtures on the morphology and pervaporation performance of their membranes. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1891-1898.	2.6	23
123	Homogenous polyelectrolyte complex membranes incorporated with strong ion-pairs with high pervaporation performance for dehydration of ethanol. <i>Journal of Membrane Science</i> , 2013, 435, 71-79.	8.2	22
124	Ice-crystal templating approach for tailoring mass transfer channels in graphene oxide membranes for high-performance dye/salt separation. <i>Carbon</i> , 2021, 183, 119-127.	10.3	22
125	Development of SERS tags for human diseases screening and detection. <i>Coordination Chemistry Reviews</i> , 2022, 470, 214711.	18.8	22
126	Preparation method and pervaporation performance of polyelectrolyte complex/PVA blend membranes for dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2010, 361, 182-190.	8.2	21



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127	Preparation and pervaporation characteristics of novel polyelectrolyte complex membranes containing dual anionic groups. <i>Journal of Membrane Science</i> , 2012, 415-416, 145-152.	8.2	21
128	Self-assembled soft nanoparticle membranes with programmed free volume hierarchy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22925-22930.	10.3	21
129	Study of Polyelectrolyte Complex Nanoparticles as Novel Templates for Biomimetic Mineralization. <i>Crystal Growth and Design</i> , 2012, 12, 2382-2388.	3.0	20
130	Effect of free volume and formation mechanisms of polyamide layers on nanofiltration membrane. <i>Separation and Purification Technology</i> , 2017, 187, 443-452.	7.9	20
131	Recovery of bio-butanol from aqueous solution with ZIF-8 modified graphene oxide composite membrane. <i>Journal of Membrane Science</i> , 2020, 598, 117671.	8.2	20
132	Green Techniques for Rapid Fabrication of Unprecedentedly High-Performance PEO Membranes for CO <sub>2</sub> Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10167-10175.	6.7	20
133	Construction and deconstruction of multilayer films containing polycarboxybetaine: Effect of pH and ionic strength. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 98-106.	9.4	19
134	Hollow Polyhedron-Modified Graphene Oxide Membranes for Organic Solvent Nanofiltration with Enhanced Permeance. <i>ACS Applied Nano Materials</i> , 2020, 3, 5874-5880.	5.0	19
135	Multilayered Poly(vinylidene fluoride) Composite Membranes with Improved Interfacial Compatibility: Correlating Pervaporation Performance with Free Volume Properties. <i>Langmuir</i> , 2011, 27, 11062-11070.	3.5	18
136	Highly sensitive and selective fiber-optic modal interferometric sensor for detecting trace mercury ion in aqueous solution. <i>Analytical Methods</i> , 2012, 4, 1292.	2.7	18
137	Shear induced self-thickening in chitosan-grafted polyacrylamide aqueous solution. <i>Soft Matter</i> , 2013, 9, 1835-1843.	2.7	18
138	A vertically channeled lamellar membrane for molecular sieving of water from organic solvents. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18095-18102.	10.3	18
139	Nano-array assisted metal-organic polyhedra membranes for the pervaporation of aromatic/aliphatic mixtures. <i>Journal of Membrane Science</i> , 2019, 575, 1-8.	8.2	18
140	Nano-confinement-inspired metal organic framework/polymer composite separation membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17212-17218.	10.3	18
141	Counterion exchanged hydrophobic polyelectrolyte multilayer membrane for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021, 620, 118827.	8.2	18
142	Molecular dynamics simulation and positron annihilation lifetime spectroscopy: Pervaporation dehydration process using polyelectrolyte complex membranes. <i>Journal of Membrane Science</i> , 2014, 451, 67-73.	8.2	17
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