Yan Wang

List of Publications by Year
in descending order

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		100601	139680
71	3,891	38	61
papers	citations	h-index	g-index

71	71	71	3040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ternary cross-linked PVA-APTES-ZIF-90 membrane for enhanced ethanol dehydration performance. Advanced Composites and Hybrid Materials, 2022, 5, 91-103.	9.9	17
2	A review on the forward osmosis applications and fouling control strategies for wastewater treatment. Frontiers of Chemical Science and Engineering, 2022, 16, 661-680.	2.3	17
3	Coordination-crosslinked polyimide supported membrane for ultrafast molecular separation in multi-solvent systems. Chemical Engineering Journal, 2022, 427, 130941.	6.6	28
4	Facilely cyclization-modified PAN nanofiber substrate of thin film composite membrane for ultrafast polar solvent separation. Journal of Membrane Science, 2022, 641, 119911.	4.1	31
5	An ultrapermeable thin film composite membrane supported by â€œgreenâ€•nanofibrous polyimide substrate for polar aprotic organic solvent recovery. Journal of Membrane Science, 2022, 644, 120192.	4.1	11
6	Polyamide-based membranes with structural homogeneity for ultrafast molecular sieving. Nature Communications, 2022, 13, 500.	5.8	84
7	Ultrathin Membranes for Separations: A New Era Driven by Advanced Nanotechnology. Advanced Materials, 2022, 34, e2108457.	11.1	58
8	Poly(ionic liquid)â€Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport. Angewandte Chemie, 2022, 134, .	1.6	4
9	Poly(ionic liquid)â€Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport. Angewandte Chemie - International Edition, 2022, 61, e202202515.	7.2	27
10	Metal-assisted multiple-crosslinked thin film composite hollow fiber membrane for highly efficient bioethanol purification. Chemical Engineering Journal, 2022, 448, 137773.	6.6	12
11	Second interfacial polymerization of thinâ€film composite hollow fibers with <scp>amineâ€</scp>cyclodextrin<scp>s</scp> for pervaporation dehydration. AICHE Journal, 2021, 67, e17144.	1.8	16
12	Breaking through permeabilityâ€“selectivity tradeâ€off of thinâ€film composite membranes assisted with crown ethers. AICHE Journal, 2021, 67, e17173.	1.8	17
13	A transport channel-regulated MXene membrane via organic phosphonic acids for efficient water permeation. Chemical Communications, 2021, 57, 6245-6248.	2.2	17
14	Constructing superhydrophobic ZIF-8 layer with bud-like surface morphology on PDMS composite membrane for highly efficient ethanol/water separation. Journal of Environmental Chemical Engineering, 2021, 9, 104977.	3.3	26
15	Thin-Film Composite Polyamide Membranes with In Situ Attached Ag Nanoparticles for Fouling-Mitigated Wastewater Treatment. ACS ES&T Water, 2021, 1, 1901-1910.	2.3	12
16	Highly porous nanofiber-supported monolayer graphene membranes for ultrafast organic solvent nanofiltration. Science Advances, 2021, 7, eabg6263.	4.7	75
17	Monolayer graphene membranes for molecular separation in high-temperature harsh organic solvents. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
18	Recent advances of thin film composite membranes for pervaporation applications: A comprehensive review. , 2021, 1, 100008.		15

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19	Organophosphonate draw solution for produced water treatment with effectively mitigated membrane fouling via forward osmosis. Journal of Membrane Science, 2020, 593, 117429.	4.1	46
20	ZIF-8@GO composites incorporated polydimethylsiloxane membrane with prominent separation performance for ethanol recovery. Journal of Membrane Science, 2020, 598, 117681.	4.1	79
21	Facile Covalent Crosslinking of Zeolitic Imidazolate Framework/Polydimethylsiloxane Mixed Matrix Membrane for Enhanced Ethanol/Water Separation Performance. ACS Sustainable Chemistry and Engineering, 2020, 8, 12664-12676.	3.2	48
22	Improved performance of thin-film composite membrane supported by aligned nanofibers substrate with slit-shape pores for forward osmosis. Journal of Membrane Science, 2020, 612, 118447.	4.1	45
23	Effect of ultrasonication parameters on forward osmosis performance of thin film composite polyamide membranes prepared with ultrasound-assisted interfacial polymerization. Journal of Membrane Science, 2020, 599, 117834.	4.1	26
24	Constructing substrate of low structural parameter by salt induction for high-performance TFC-FO membranes. Journal of Membrane Science, 2020, 600, 117866.	4.1	24
25	Forward osmosis-extraction hybrid process for resource recovery from dye wastewater. Journal of Membrane Science, 2020, 612, 118376.	4.1	25
26	Confining migration of amine monomer during interfacial polymerization for constructing thin-film composite forward osmosis membrane with low fouling propensity. Chemical Engineering Science, 2019, 207, 54-68.	1.9	38
27	Efficient surface ionization and metallization of TFC membranes with superior separation performance, antifouling and anti-bacterial properties. Journal of Membrane Science, 2019, 586, 84-97.	4.1	51
28	Special Issue on â€œNovel Membrane Technologies for Traditional Industrial Processesâ€• Processes, 2019, 7, 144.	1.3	1
29	ZIFâ€8 membrane synthesized via covalentâ€assisted seeding on polyimide substrate for pervaporation dehydration. AICHE Journal, 2019, 65, e16620.	1.8	28
30	Zwitterionâ€“Ag Complexes That Simultaneously Enhance Biofouling Resistance and Silver Binding Capability of Thin Film Composite Membranes. ACS Applied Materials & Interfaces, 2019, 11, 15698-15708.	4.0	64
31	Versatile Surface Modification of TFC Membrane by Layer-by-Layer Assembly of Phytic Acidâ€“Metal Complexes for Comprehensively Enhanced FO Performance. Environmental Science & Technology, 2019, 53, 3331-3341.	4.6	64
32	Application of polysaccharide derivatives as novel draw solutes in forward osmosis for desalination and protein concentration. Chemical Engineering Research and Design, 2019, 146, 211-220.	2.7	7
33	Developing high-performance thin-film composite forward osmosis membranes by various tertiary amine catalysts for desalination. Advanced Composites and Hybrid Materials, 2019, 2, 51-69.	9.9	37
34	Highly permeable and antifouling TFC FO membrane prepared with CD-EDA monomer for protein enrichment. Journal of Membrane Science, 2019, 572, 281-290.	4.1	35
35	High-performance thin-film composite polyamide membranes developed with green ultrasound-assisted interfacial polymerization. Journal of Membrane Science, 2019, 570-571, 112-119.	4.1	84
36	Thin film composite membranes containing intrinsic CD cavities in the selective layer. Journal of Membrane Science, 2018, 551, 294-304.	4.1	64

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37	Antifouling enhancement of polyimide membrane by grafting DEDA-PS zwitterions. Chemosphere, 2018, 198, 30-39.	4.2	38
38	Efficient surface modification of thin-film composite membranes with self-catalyzed tris(2-aminoethyl)amine for forward osmosis separation. Chemical Engineering Science, 2018, 178, 82-92.	1.9	34
39	A prospective study on thermally-cyclodehydrated poly(imide-oxadiazole) membranes for pervaporation dehydration. Journal of Membrane Science, 2018, 549, 184-191.	4.1	24
40	Properties and pervaporation performance of poly(vinyl alcohol) membranes crosslinked with various dianhydrides. Journal of Applied Polymer Science, 2018, 135, 46159.	1.3	26
41	Antifouling polyimide membrane with grafted silver nanoparticles and zwitterion. Separation and Purification Technology, 2018, 192, 230-239.	3.9	67
42	Evaluation of food additive sodium phytate as a novel draw solute for forward osmosis. Desalination, 2018, 448, 87-92.	4.0	15
43	Enhanced ethanol recovery of PDMS mixed matrix membranes with hydrophobically modified ZIF-90. Separation and Purification Technology, 2018, 206, 80-89.	3.9	71
44	Construction of SiO2@MWNTs incorporated PVDF substrate for reducing internal concentration polarization in forward osmosis. Journal of Membrane Science, 2018, 564, 328-341.	4.1	92
45	Exploration of oligomeric sodium carboxylates as novel draw solutes for forward osmosis. Chemical Engineering Research and Design, 2018, 138, 77-86.	2.7	13
46	High-performance thin-film composite membranes with surface functionalization by organic phosphonic acids. Journal of Membrane Science, 2018, 563, 284-297.	4.1	56
47	Fabrication of Smart Hybrid Nanoreactors from Platinum Nanodendrites Encapsulating in Hyperbranched Polyglycerol Hollow Shells. ACS Applied Nano Materials, 2018, 1, 2559-2566.	2.4	11
48	Application of poly (4-styrenesulfonic acid-co-maleic acid) sodium salt as novel draw solute in forward osmosis for dye-containing wastewater treatment. Desalination, 2017, 421, 40-46.	4.0	46
49	Performance enhancement of TFC FO membranes with polyethyleneimine modification and post-treatment. Journal of Membrane Science, 2017, 534, 46-58.	4.1	91
50	Improved performance of thin-film composite membrane with PVDF/PFSA substrate for forward osmosis process. Journal of Membrane Science, 2017, 535, 188-199.	4.1	89
51	Tris(2-aminoethyl)amine in-situ modified thin-film composite membranes for forward osmosis applications. Journal of Membrane Science, 2017, 537, 186-201.	4.1	71
52	Electrospun nanofibrous membrane of porous fluorine-containing triptycene-based polyimides for oil/water separation. RSC Advances, 2017, 7, 22548-22552.	1.7	24
53	Network cross-linking of polyimide membranes for pervaporation dehydration. Separation and Purification Technology, 2017, 185, 215-226.	3.9	50
54	Poly(vinyl alcohol)/ZIFâ€8â€NH‹sub›2‹/sub› mixed matrix membranes for ethanol dehydration via pervaporation. AICHE Journal, 2016, 62, 1728-1739.	1.8	100

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55	Synthesis and Application of Organic Phosphonate Salts as Draw Solutes in Forward Osmosis for Oilâ€“Water Separation. Environmental Science & Technology, 2016, 50, 12022-12029.	4.6	53
56	Novel thin film composite forward osmosis membrane of enhanced water flux and anti-fouling property with N-[3-(trimethoxysilyl) propyl] ethylenediamine incorporated. Journal of Membrane Science, 2016, 520, 400-414.	4.1	65
57	Novel carboxyethyl amine sodium salts as draw solutes with superior forward osmosis performance. AICHE Journal, 2016, 62, 1226-1235.	1.8	31
58	Antifouling polyimide membrane with surface-bound silver particles. Journal of Membrane Science, 2016, 516, 83-93.	4.1	67
59	Graphene oxide incorporated thin-film composite membranes for forward osmosis applications. Chemical Engineering Science, 2016, 143, 194-205.	1.9	227
60	Evaluation of Renewable Gluconate Salts as Draw Solutes in Forward Osmosis Process. ACS Sustainable Chemistry and Engineering, 2016, 4, 85-93.	3.2	54
61	In-situ crosslinked PVA/organosilica hybrid membranes for pervaporation separations. Journal of Membrane Science, 2016, 498, 263-275.	4.1	112
62	Sodium Tetraethylenepentamine Heptaacetate as Novel Draw Solute for Forward Osmosisâ€”Synthesis, Application and Recovery. Energies, 2015, 8, 12917-12928.	1.6	27
63	Synthesis and application of ethylenediamine tetrapropionic salt as a novel draw solute for forward osmosis application. AICHE Journal, 2015, 61, 1309-1321.	1.8	40
64	Novel thermally cross-linked polyimide membranes for ethanol dehydration via pervaporation. Journal of Membrane Science, 2015, 496, 142-155.	4.1	67
65	ZIF-90/P84 mixed matrix membranes for pervaporation dehydration of isopropanol. Journal of Membrane Science, 2014, 453, 155-167.	4.1	142
66	Thin-film composite membranes with modified polyvinylidene fluoride substrate for ethanol dehydration via pervaporation. Chemical Engineering Science, 2014, 118, 173-183.	1.9	49
67	Molecular design of thin film composite (TFC) hollow fiber membranes for isopropanol dehydration via pervaporation. Journal of Membrane Science, 2012, 405-406, 123-133.	4.1	106
68	Polyamideâ€“imide membranes with surface immobilized cyclodextrin for butanol isomer separation via pervaporation. AICHE Journal, 2011, 57, 1470-1484.	1.8	49
69	Pervaporation dehydration of ethylene glycol through polybenzimidazole (PBI)-based membranes. 1. Membrane fabrication. Journal of Membrane Science, 2010, 363, 149-159.	4.1	85
70	Polyamide-imide/polyetherimide dual-layer hollow fiber membranes for pervaporation dehydration of C1â€“C4 alcohols. Journal of Membrane Science, 2009, 326, 222-233.	4.1	169
71	Polyimides membranes for pervaporation and biofuels separation. Progress in Polymer Science, 2009, 34, 1135-1160.	11.8	367