

# Zhen-Liang Xu

## List of Publications by Citations

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#	Paper	IF	Citations
157	Effect of TiO <sub>2</sub> nanoparticles on the surface morphology and performance of microporous PES membrane. <i>Applied Surface Science</i> , <b>2009</b> , 255, 4725-4732	6.7	476
156	Polypiperazine-amide Nanofiltration Membrane Modified by Different Functionalized Multiwalled Carbon Nanotubes (MWCNTs). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19135-44	9.5	189
155	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , <b>2018</b> , 5, 123-130	11	148
154	Preparation and characterization of PVDF/PFSA blend hollow fiber UF membrane. <i>Journal of Membrane Science</i> , <b>2007</b> , 288, 123-131	9.6	137
153	Polypiperazine-amide nanofiltration membrane containing silica nanoparticles prepared by interfacial polymerization. <i>Desalination</i> , <b>2012</b> , 301, 75-81	10.3	122
152	A facile preparation of novel positively charged MOF/chitosan nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2017</b> , 525, 269-276	9.6	105
151	Positively charged capillary nanofiltration membrane with high rejection for Mg <sup>2+</sup> and Ca <sup>2+</sup> and good separation for Mg <sup>2+</sup> and Li <sup>+</sup> . <i>Desalination</i> , <b>2017</b> , 420, 158-166	10.3	101
150	FAS Grafted Electrospun Poly(vinyl alcohol) Nanofiber Membranes with Robust Superhydrophobicity for Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22652-9	9.5	77
149	Interfacial Polymerization with Electrospayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , <b>2018</b> , 5, 117-122	11	75
148	Chlorine resistant TFN nanofiltration membrane incorporated with octadecylamine-grafted GO and fluorine-containing monomer. <i>Journal of Membrane Science</i> , <b>2018</b> , 545, 185-195	9.6	75
147	A chlorine-tolerant nanofiltration membrane prepared by the mixed diamine monomers of PIP and BHTM. <i>Journal of Membrane Science</i> , <b>2016</b> , 498, 374-384	9.6	75
146	Tuning roughness features of thin film composite polyamide membranes for simultaneously enhanced permeability, selectivity and anti-fouling performance. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 540, 382-388	9.3	75
145	Preparation, characterization and permeation property of Al <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> /kaolin hollow fiber membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 372, 154-164	9.6	73
144	Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803890	24	71
143	Super-wetting, photoactive TiO <sub>2</sub> coating on amino-silane modified PAN nanofiber membranes for high efficient oil-water emulsion separation application. <i>Journal of Membrane Science</i> , <b>2019</b> , 580, 40-48	9.6	63
142	Preparation and characterization of polyethersulfone microporous membrane via thermally induced phase separation with low critical solution temperature system. <i>Journal of Membrane Science</i> , <b>2013</b> , 437, 169-178	9.6	60
141	Effect of polyethylene glycol molecular weights and concentrations on polyethersulfone hollow fiber ultrafiltration membranes. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 3398-3407	2.9	58

140	Interfacial polymerization on PES hollow fiber membranes using mixed diamines for nanofiltration removal of salts containing oxyanions and ferric ions. <i>Desalination</i> , <b>2016</b> , 394, 176-184	10.3	53
139	A Monodispersed Spherical Zr-Based Metal-Organic Framework Catalyst, Pt/Au@Pd@UIO-66, Comprising an Au@Pd Core-Shell Encapsulated in a UIO-66 Center and Its Highly Selective CO Hydrogenation to Produce CH <sub>4</sub> . <i>Small</i> , <b>2018</b> , 14, 1702812	11	47
138	Preparation and characterization of PFSABVA/SiO <sub>2</sub> /PVA/PAN difunctional hollow fiber composite membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 360, 315-322	9.6	45
137	Novel high-flux thin film composite nanofiltration membranes fabricated by the NaClO pre-oxidation of the mixed diamine monomers of PIP and BHTM in the aqueous phase solution. <i>Journal of Membrane Science</i> , <b>2016</b> , 502, 106-115	9.6	43
136	Monodispersed gold nanoparticles supported on a zirconium-based porous metal-organic framework and their high catalytic ability for the reverse water-gas shift reaction. <i>Chemical Communications</i> , <b>2017</b> , 53, 7953-7956	5.8	42
135	High efficient dye removal with hydrolyzed ethanolamine-Polyacrylonitrile UF membrane: Rejection of anionic dye and selective adsorption of cationic dye. <i>Chemosphere</i> , <b>2020</b> , 259, 127390	8.4	42
134	Carbon nanotubes enhance permeability of ultrathin polyamide rejection layers. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 139-145	9.6	41
133	Novel high-flux positively charged composite membrane incorporating titanium-based MOFs for heavy metal removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125706	14.7	40
132	Bio-inspired GO-Ag/PVDF/F127 membrane with improved anti-fouling for natural organic matter (NOM) resistance. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 450-460	14.7	38
131	Novel Swelling-Resistant Sodium Alginate Membrane Branching Modified by Glycogen for Highly Aqueous Ethanol Solution Pervaporation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27243-27253	9.5	37
130	A novel TFC forward osmosis (FO) membrane supported by polyimide (PI) microporous nanofiber membrane. <i>Applied Surface Science</i> , <b>2018</b> , 427, 1-9	6.7	37
129	High-performance polyamide/ceramic hollow fiber TFC membranes with TiO <sub>2</sub> interlayer for pervaporation dehydration of isopropanol solution. <i>Journal of Membrane Science</i> , <b>2019</b> , 576, 26-35	9.6	34
128	Multilayer assembled CS-PSS/ceramic hollow fiber membranes for pervaporation dehydration. <i>Separation and Purification Technology</i> , <b>2018</b> , 203, 84-92	8.3	34
127	Improving the chlorine-tolerant ability of polypiperazine-amide nanofiltration membrane by adding NH <sub>2</sub> -PEG-NH <sub>2</sub> in the aqueous phase. <i>Journal of Membrane Science</i> , <b>2017</b> , 538, 9-17	9.6	32
126	Monodisperse Metal-Organic Framework Nanospheres with Encapsulated Core-Shell Nanoparticles Pt/Au@Pd@{Co(oba)(3-bpdh)} <sub>4</sub> HO for the Highly Selective Conversion of CO to CH <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15096-15103	9.5	32
125	Formation of microporous polymeric membranes via thermally induced phase separation: A review. <i>Frontiers of Chemical Science and Engineering</i> , <b>2016</b> , 10, 57-75	4.5	32
124	Microwave heating assistant preparation of high permselectivity polypiperazine-amide nanofiltration membrane during the interfacial polymerization process with low monomer concentration. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117718	9.6	32
123	A novel PES-TiO <sub>2</sub> hollow fiber hybrid membrane prepared via sol-gel process assisted reverse thermally induced phase separation (RTIPS) method. <i>Journal of Membrane Science</i> , <b>2017</b> , 528, 303-315	9.6	31

122	Novel high-flux polyamide/TiO <sub>2</sub> composite nanofiltration membranes on ceramic hollow fibre substrates. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 322-330	9.6	31
121	Characterization of PVDF/PFSA hollow fiber UF blend membrane with low-molecular weight cut-off. <i>Separation and Purification Technology</i> , <b>2009</b> , 69, 141-148	8.3	31
120	A Novel Seeding Method of Interfacial Polymerization-Assisted Dip Coating for the Preparation of Zeolite NaA Membranes on Ceramic Hollow Fiber Supports. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25386-95	9.5	30
119	PSF hollow fiber membrane fabricated from PSF/BPE/EG400/DMAc dope solutions via reverse thermally induced phase separation (RTIPS) process. <i>Chemical Engineering Science</i> , <b>2015</b> , 137, 131-139	4.4	28
118	Tailoring the polyester/polyamide backbone stiffness for the fabrication of high performance nanofiltration membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 541, 483-491	9.6	28
117	Superior nanofiltration membranes with gradient cross-linked selective layer fabricated via controlled hydrolysis. <i>Journal of Membrane Science</i> , <b>2020</b> , 604, 118067	9.6	27
116	Poly(styrene sulfonic acid) sodium modified nanofiltration membranes with improved permeability for the softening of highly concentrated seawater. <i>Desalination</i> , <b>2014</b> , 336, 179-186	10.3	26
115	Novel chitosan-piperazine composite nanofiltration membranes for the desalination of brackish water and seawater. <i>Journal of Polymer Research</i> , <b>2018</b> , 25, 1	2.7	25
114	Thin-film nanocomposite membranes containing tannic acid-Fe <sup>3+</sup> modified MoS <sub>2</sub> nanosheets with enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , <b>2020</b> , 616, 118605	9.6	25
113	Novel ECD@ZIF-8 Nanoparticles-Doped Poly(-phenylene isophthalamide) (PMIA) Thin-Film Nanocomposite (TFN) Membrane for Organic Solvent Nanofiltration (OSN). <i>ACS Omega</i> , <b>2018</b> , 3, 11770-11787	3.9	25
112	Hydrophilic yolk-shell ZIF-8 modified polyamide thin-film nanocomposite membrane with improved permeability and selectivity. <i>Separation and Purification Technology</i> , <b>2020</b> , 247, 116990	8.3	24
111	Surface Modification of Polyacrylonitrile Membrane by Chemical Reaction and Physical Coating: Comparison between Static and Pore-Flowing Procedures. <i>ACS Omega</i> , <b>2018</b> , 3, 4231-4241	3.9	24
110	How to understand the effects of heat curing conditions on the morphology and performance of poly(piperazine-amide) NF membrane. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117640	9.6	24
109	Three-channel capillary NF membrane with PAMAM-MWCNT-embedded inner polyamide skin layer for heavy metals removal. <i>RSC Advances</i> , <b>2018</b> , 8, 29455-29463	3.7	24
108	Ag NPs coated PVDF@TiO <sub>2</sub> nanofiber membrane prepared by epitaxial growth on TiO <sub>2</sub> inter-layer for 4-NP reduction application. <i>Separation and Purification Technology</i> , <b>2019</b> , 227, 115700	8.3	23
107	Preparation of carbon nanofiber with multilevel gradient porous structure for supercapacitor and CO <sub>2</sub> adsorption. <i>Chemical Engineering Science</i> , <b>2019</b> , 205, 181-189	4.4	23
106	Highly chlorine-tolerant performance of three-channel capillary nanofiltration membrane with inner skin layer. <i>Journal of Membrane Science</i> , <b>2017</b> , 527, 111-120	9.6	22
105	Fabrication, characterization and separation properties of three-channel stainless steel hollow fiber membrane. <i>Journal of Membrane Science</i> , <b>2016</b> , 515, 144-153	9.6	21

104	Antifouling sulfonated polyamide nanofiltration hollow fiber membrane prepared with mixed diamine monomers of BDSA and PIP. <i>RSC Advances</i> , <b>2017</b> , 7, 56629-56637	3.7	21
103	Pore structure analysis of PFSA/SiO <sub>2</sub> composite catalysts from nitrogen adsorption isotherms. <i>Science China Chemistry</i> , <b>2011</b> , 54, 257-262	7.9	21
102	High permselectivity thin-film composite nanofiltration membranes with 3D microstructure fabricated by incorporation of beta cyclodextrin. <i>Separation and Purification Technology</i> , <b>2019</b> , 227, 115718	8.3	20
101	Preparation and characterization of PSf hollow fiber membrane from PSf/BPEBEG400MP dope solution. <i>Journal of Membrane Science</i> , <b>2014</b> , 454, 184-192	9.6	20
100	Preparation of PAN/PAMAM blend nanofiber mats as efficient adsorbent for dye removal. <i>Fibers and Polymers</i> , <b>2015</b> , 16, 1917-1924	2	20
99	Electrokinetic and permeation characterization of hydrolyzed polyacrylonitrile (PAN) hollow fiber ultrafiltration membrane. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 683-689		20
98	A self-cleaning TiO <sub>2</sub> coated mesh with robust underwater superoleophobicity for oil/water separation in a complex environment. <i>RSC Advances</i> , <b>2016</b> , 6, 65171-65178	3.7	20
97	Morphology, Surface Layer Evolution, and Structure-Dye Adsorption Relationship of Porous Fe <sub>3</sub> O <sub>4</sub> MNPs Prepared by Solvothermal/Gas Generation Process. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2339-2349	8.3	19
96	Tailoring the morphologies of PVDF nanofibers by interfacial diffusion during coaxial electrospinning. <i>Materials and Design</i> , <b>2016</b> , 109, 264-269	8.1	19
95	Polyethyleneimine modified carbohydrate doped thin film composite nanofiltration membrane for purification of drinking water. <i>Journal of Membrane Science</i> , <b>2020</b> , 610, 118220	9.6	19
94	Polyamide Membranes with Net-Like Nanostructures Induced by Different Charged MOFs for Elevated Nanofiltration. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 585-593	4.3	19
93	Three-channel capillary nanofiltration membrane with quaternary ammonium incorporated for efficient heavy metals removal. <i>Separation and Purification Technology</i> , <b>2020</b> , 248, 117133	8.3	18
92	In-situ synthetic modified metal-organic framework (MZIF-8) as an interlayer of the composite membranes for ethanol dehydration. <i>Journal of Membrane Science</i> , <b>2020</b> , 601, 117916	9.6	18
91	Novel thin-film nanocomposite membrane with water-soluble polyhydroxylated fullerene for the separation of Mg <sup>2+</sup> /Li <sup>+</sup> aqueous solution. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 48029	2.9	17
90	High-flux, anti-fouling dendrimer grafted PAN membrane: Fabrication, performance and mechanisms. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117743	9.6	17
89	High-flux NaA zeolite pervaporation membranes dynamically synthesized on the alumina hollow fiber inner-surface in a continuous flow system. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 445-454	9.6	17
88	Nanostructured Graphene Oxide Composite Membranes with Ultrapermselectivity and Mechanical Robustness. <i>Nano Letters</i> , <b>2020</b> , 20, 2209-2218	11.5	16
87	Construction of MoS <sub>2</sub> composite membranes on ceramic hollow fibers for efficient water desalination. <i>Journal of Membrane Science</i> , <b>2019</b> , 592, 117369	9.6	16

86	Novel designed TFC membrane based on host-guest interaction for organic solvent nanofiltration (OSN). <i>Journal of Membrane Science</i> , <b>2019</b> , 588, 117227	9.6	16
85	Effects of nucleating agents on the morphologies and performances of poly(vinylidene fluoride) microporous membranes via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 836-844	2.9	16
84	Enhanced pervaporation performance of SA-PFSA/ceramic hybrid membranes for ethanol dehydration. <i>Separation and Purification Technology</i> , <b>2018</b> , 206, 218-225	8.3	15
83	Thin-film nanocomposite NF membrane with GO on macroporous hollow fiber ceramic substrate for efficient heavy metals removal. <i>Environmental Research</i> , <b>2021</b> , 197, 111040	7.9	15
82	Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118681	9.6	15
81	Preparation of Carbonized MOF/MgCl <sub>2</sub> Hybrid Products as Dye Adsorbent and Supercapacitor: Morphology Evolution and Mg Salt Effect. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 1601-1612	3.9	14
80	FeO/PVDF catalytic membrane treatment organic wastewater with simultaneously improved permeability, catalytic property and anti-fouling. <i>Environmental Research</i> , <b>2020</b> , 187, 109617	7.9	13
79	Estimation of phase separation temperatures for polyethersulfone/solvent/non-solvent systems in RTIPS and membrane properties. <i>Journal of Membrane Science</i> , <b>2018</b> , 556, 329-341	9.6	13
78	Facile Fabrication and Application of Superhydrophilic Stainless Steel Hollow Fiber Microfiltration Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10283-10289	8.3	13
77	Process optimization and modeling of membrane reactor using self-sufficient catalysis and separation of difunctional ceramic composite membrane to produce methyl laurate. <i>Separation and Purification Technology</i> , <b>2014</b> , 132, 370-377	8.3	13
76	Preparation of Laponite hydrogel in different shapes for selective dye adsorption and filtration separation. <i>Applied Clay Science</i> , <b>2021</b> , 201, 105936	5.2	13
75	Preparation and characterization of a PFSABVDF blend nanofiber membrane and its preliminary application investigation. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7544-7552	3.6	12
74	Effect of cellulose triacetate membrane thickness on forward-osmosis performance and application for spent electroless nickel plating baths. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45049	2.9	12
73	Three-channel stainless steel hollow fiber membrane with inner layer modified by nano-TiO <sub>2</sub> coating method for the separation of oil-in-water emulsions. <i>Separation and Purification Technology</i> , <b>2019</b> , 222, 75-84	8.3	12
72	Modification of polysulfone hollow fiber ultrafiltration membranes using hyperbranched polyesters with different molecular weights. <i>Polymers for Advanced Technologies</i> , <b>2015</b> , 26, 353-361	3.2	12
71	Flower-like ternary metal of Ni-Co-Mn hydroxide combined with carbon nanotube for supercapacitor. <i>Ionics</i> , <b>2020</b> , 26, 3609-3619	2.7	12
70	Excellent anti-fouling performance of PVDF polymeric membrane modified by enhanced CaA gel-layer. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 58, 179-188	6.3	12
69	Characterization, separation performance, and model analysis of STPP-chitosan/PAN polyelectrolyte complex membranes. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 1017-1026	2.9	12

68	High-Performance Zwitterionic Nanofiltration Membranes Fabricated via Microwave-Assisted Grafting of Betaine. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35523-35531	9.5	12
67	RO membrane fabricated via a facile modified heat-treating strategy for high-flux desalination. <i>Journal of Membrane Science</i> , <b>2020</b> , 614, 118498	9.6	12
66	Coupling heat curing and surface modification for the fabrication of high permselectivity polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 623, 119073	9.6	12
65	Fabrication and characterization of PVDF hollow fiber membranes employing in-situ self-assembly modulation concept. <i>Journal of Membrane Science</i> , <b>2015</b> , 486, 119-131	9.6	11
64	Preparation of MFI zeolite membranes on coarse macropore stainless steel hollow fibers for the recovery of bioalcohols. <i>RSC Advances</i> , <b>2016</b> , 6, 109936-109944	3.7	11
63	A PVDF/PVB composite UF membrane improved by F-127-wrapped fullerene for protein waste-water separation. <i>RSC Advances</i> , <b>2016</b> , 6, 83510-83519	3.7	11
62	Interforce initiated by magnetic nanoparticles for reducing internal concentration polarization in CTA forward osmosis membrane. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	10
61	Preparation and characterization of PES/CA microporous membranes via reverse thermally induced phase separation process. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 180-191	2.3	10
60	Porous carbonaceous composite derived from Mg(OH) <sub>2</sub> pre-filled PAN based membrane for supercapacitor and dye adsorption application. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 493-501	3.3	10
59	Thin-film composite membranes fabricated directly on a large-porous ceramic support using poly (4-styrenesulfonic acid) as a scaffold for ethanol dehydration. <i>Journal of Membrane Science</i> , <b>2021</b> , 619, 118775	9.6	10
58	Ultrapervious Organic Solvent Nanofiltration Membranes with Precisely Tailored Support Layers Fabricated Using Thin-Film Liftoff. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 30796-30804	9.5	9
57	Au@Pt Nanotubes within CoZn-Based Metal-Organic Framework for Highly Efficient Semi-hydrogenation of Acetylene. <i>IScience</i> , <b>2020</b> , 23, 101233	6.1	9
56	Morphological controlling of CTA forward osmosis membrane using different solvent-nonsolvent compositions in first coagulation bath. <i>Journal of Polymer Research</i> , <b>2017</b> , 24, 1	2.7	9
55	Impact of Cross-Linked Chitosan Sublayer Structure on the Performance of TFC FO PAN Nanofiber Membranes. <i>ACS Omega</i> , <b>2018</b> , 3, 13009-13019	3.9	8
54	Smart light responsive polypropylene membrane switching reversibly between hydrophobicity and hydrophilicity for oily water separation. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119704	9.6	8
53	Dually charged polyamide nanofiltration membranes fabricated by microwave-assisted grafting for heavy metals removal. <i>Journal of Membrane Science</i> , <b>2021</b> , 640, 119834	9.6	8
52	Double-Crosslinked GO Interlayer Framework as a Pervaporation Hybrid Membrane with High Performance. <i>ACS Omega</i> , <b>2019</b> , 4, 15043-15050	3.9	7
51	Modification of porous stainless steel hollow fibers by adding TiO <sub>2</sub> , ZrO <sub>2</sub> and SiO <sub>2</sub> nano-particles. <i>Journal of Porous Materials</i> , <b>2016</b> , 23, 773-782	2.4	7

50	Separation of anionic dye mixtures by Al-metal-organic framework filled polyacrylonitrile-ethanolamine membrane and its modified product. <i>Journal of Cleaner Production</i> , <b>2021</b> , 284, 124778	10.3	7
49	Effect of polymer and additive on the structure and property of porous stainless steel hollow fiber. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 1438-1443	2.8	6
48	ETA-m-PAN and its Composite Membrane with High Performance Prepared by In Situ Modification/NIPS Principle. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800745	3.9	5
47	A polyethersulfone-bisphenol sulfuric acid hollow fiber ultrafiltration membrane fabricated by a reverse thermally induced phase separation process.. <i>RSC Advances</i> , <b>2018</b> , 8, 7800-7809	3.7	5
46	Structure and property of PFSA/PES porous catalytic nanofibers. <i>Catalysis Today</i> , <b>2016</b> , 276, 133-138	5.3	5
45	Surfactants attached thin film composite (TFC) nanofiltration (NF) membrane via intermolecular interaction for heavy metals removal. <i>Journal of Membrane Science</i> , <b>2022</b> , 642, 119930	9.6	5
44	Fast surface crosslinking ceramic hollow fiber pervaporation composite membrane with outstanding separation performance for isopropanol dehydration. <i>Separation and Purification Technology</i> , <b>2020</b> , 234, 116116	8.3	5
43	Etching of cubic Pd@Pt in UiO-66 to obtain nanocages for enhancing CO <sub>2</sub> hydrogenation. <i>Materials Today Energy</i> , <b>2021</b> , 19, 100585	7	5
42	Superoleophobicity: Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface (Adv. Mater. 45/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870338	24	5
41	Enhancing nanofiltration performance for antibiotics/NaCl separation via water activation before microwave heating. <i>Journal of Membrane Science</i> , <b>2021</b> , 629, 119285	9.6	5
40	UIO66-membranized SAPO-34 Pt catalyst for enhanced carbon dioxide conversion efficiency. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100781	7	5
39	Preparation of PFSA/PSf hollow fiber composite membranes with recovered PFSA for the pervaporation separation of EtOH/H <sub>2</sub> O. <i>Science China Chemistry</i> , <b>2010</b> , 53, 273-280	7.9	4
38	GWF-NH <sub>2</sub> enhanced OSN membrane with trifluoromethyl groups in polyamide layer for rapid methanol recycling. <i>Separation and Purification Technology</i> , <b>2020</b> , 240, 116619	8.3	4
37	High efficient reduction of 4-nitrophenol and dye by filtration through Ag NPs coated PAN-Si catalytic membrane. <i>Chemosphere</i> , <b>2021</b> , 263, 127995	8.4	4
36	Preparation and antifouling performance of thin inorganic ultrafiltration membrane via assisted sol-gel method with different composition of dual additives. <i>Ceramics International</i> , <b>2021</b> , 47, 2180-2186 <sup>5.1</sup>	5.1	4
35	Hybridly charged NF membranes with MOF incorporated for removing low-concentration surfactants. <i>Separation and Purification Technology</i> , <b>2021</b> , 258, 118069	8.3	4
34	High-Flux Fine Hollow Fiber Nanofiltration Membranes for the Purification of Drinking Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 1817-1828	3.9	4
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31	Construction of MoS <sub>2</sub> hybrid membranes on ceramic hollow fibers for efficient dehydration of isopropanol solution via pervaporation. <i>Separation and Purification Technology</i> , <b>2021</b> , 277, 119452	8.3	3
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28	Laminar mesoporous structure of modified montmorillonite clays and its formation mechanism. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2012</b> , 27, 321-327	1	2
27	Bifunctional Ag@Ni-MOF for high performance supercapacitor and glucose sensor. <i>Synthetic Metals</i> , <b>2021</b> , 282, 116931	3.6	2
26	SUZ-4 zeolite membrane fabricated by dynamic hydrothermal crystallization for pervaporation separation of MeOH/MMA mixture. <i>Journal of Membrane Science</i> , <b>2022</b> , 642, 119974	9.6	2
25	Thin-film liftoff assisted fabrication of amine-based PDMS TFC membrane for enhanced phenol recovery. <i>Journal of Membrane Science</i> , <b>2021</b> , 624, 119104	9.6	2
24	Sub10 nm macroporous aramid substrates with a hierarchically structured interface for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2021</b> , 625, 119123	9.6	2
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19	New insights into the interaction between surface-charged membranes and positively-charged draw solutes in the forward osmosis process. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 37, 101439	6.7	1
18	Self-adhesive PMIA membranes with virus-like silica immobilized lipase for efficient biological aging of Chinese liquor. <i>Journal of Membrane Science</i> , <b>2021</b> , 621, 118990	9.6	1
17	Numerical simulation of atomic layer deposition for thin deposit formation in a mesoporous substrate. <i>AIChE Journal</i> , <b>2021</b> , 67, e17305	3.6	1
16	Novel Insight on the Effect of the Monomer Concentration on the Polypiperazine-Amide Nanofiltration Membrane. <i>Industrial &amp; Engineering Chemistry Research</i> ,	3.9	1
15	Photocatalytic self-cleaning EVAL membrane by incorporating bio-inspired functionalized MIL-101(Fe) for dye/salt separation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136507	14.7	1

14	Converting CO <sub>2</sub> Hydrogenation Products from Paraffins to Olefins: Modification of Zeolite Surface Properties by a UiO-n Membrane. <i>ACS Catalysis</i> , 5894-5902	13.1	1
13	Separation of single and mixed anionic dyes in saline solutions using uncharged polyacrylonitrile-tris(hydroxymethyl)aminomethane (PAN-Tris) ultrafiltration membrane: Performance and mechanism. <i>Journal of Cleaner Production</i> , <b>2022</b> , 336, 130471	10.3	0
12	2D nanosheets optimized electrospray-assisted interfacial polymerization polyamide membrane with excellent separation performance. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120308	9.6	0
11	Ceramic hollow fiber NF membrane incorporating UiO-66 for the chlorinated hydrocarbons removal. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134789	14.7	0
10	Second interfacial polymerization decorating defects of TFC NF membrane formed by 1D nanochannels for improving separation performance. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 10, 106896	6.8	0
9	Triethanolamine modification produces ultra-permeable nanofiltration membrane with enhanced removal efficiency of heavy metal ions. <i>Journal of Membrane Science</i> , <b>2021</b> , 644, 120127	9.6	0
8	Epoxide-based PDMS TFC membrane fabricated via the T-FLO technique for the phenol separation. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119937	9.6	0
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6	Effects of locations of cellulose nanofibers in membrane on the performance of positively charged membranes. <i>Journal of Membrane Science</i> , <b>2022</b> , 652, 120464	9.6	0
5	MoS <sub>2</sub> @PDA thin-film nanocomposite nanofiltration membrane for simultaneously improved permeability and selectivity. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 107697	6.8	0
4	A PEI/TMC membrane modified with an ionic liquid with enhanced permeability and antibacterial properties for the removal of heavy metal ions.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 435, 129010	12.8	0
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1	Designing of a novel polyvinylidene fluoride/TiO <sub>2</sub> /UiO-66-NH membrane with photocatalytic antifouling properties using modified zirconium-based metal-organic framework. <i>Water Science and Technology</i> , <b>2021</b> , 84, 2380-2393	2.2	