

Xiao-Hua

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75
papers

3,125
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30
h-index

55
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76
ext. papers

3,932
ext. citations

7.8
avg, IF

5.67
L-index

#	Paper	IF	Citations
75	Effect of TiO ₂ nanoparticles on the surface morphology and performance of microporous PES membrane. <i>Applied Surface Science</i> , 2009 , 255, 4725-4732	6.7	476
74	Polypiperazine-amide Nanofiltration Membrane Modified by Different Functionalized Multiwalled Carbon Nanotubes (MWCNTs). <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19135-44	9.5	189
73	Tannic Acid/Fe Nanoscaffold for Interfacial Polymerization: Toward Enhanced Nanofiltration Performance. <i>Environmental Science & Technology</i> , 2018 , 52, 9341-9349	10.3	162
72	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 123-130	11	148
71	Superhydrophobic PVDF/P ₄ TFE electrospun nanofibrous membranes for desalination by vacuum membrane distillation. <i>Desalination</i> , 2014 , 347, 175-183	10.3	141
70	Preparation and characterization of PVDF/P ₄ FSA blend hollow fiber UF membrane. <i>Journal of Membrane Science</i> , 2007 , 288, 123-131	9.6	137
69	A facile preparation of novel positively charged MOF/chitosan nanofiltration membranes. <i>Journal of Membrane Science</i> , 2017 , 525, 269-276	9.6	105
68	Positively charged capillary nanofiltration membrane with high rejection for Mg ²⁺ and Ca ²⁺ and good separation for Mg ²⁺ and Li ⁺ . <i>Desalination</i> , 2017 , 420, 158-166	10.3	101
67	Effects of mixed solvents and PVDF types on performances of PVDF microporous membranes. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 2277-2287	2.9	78
66	Interfacial Polymerization with Electrospayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 117-122	11	75
65	Chlorine resistant TFN nanofiltration membrane incorporated with octadecylamine-grafted GO and fluorine-containing monomer. <i>Journal of Membrane Science</i> , 2018 , 545, 185-195	9.6	75
64	A chlorine-tolerant nanofiltration membrane prepared by the mixed diamine monomers of PIP and BHTM. <i>Journal of Membrane Science</i> , 2016 , 498, 374-384	9.6	75
63	Superhydrophobic modification of PVDF/P ₄ SiO ₂ electrospun nanofiber membranes for vacuum membrane distillation. <i>RSC Advances</i> , 2015 , 5, 67962-67970	3.7	74
62	Preparation, characterization and permeation property of Al ₂ O ₃ , Al ₂ O ₃ /SiO ₂ and Al ₂ O ₃ /kaolin hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011 , 372, 154-164	9.6	73
61	Dehydration of ethyl acetate aqueous solution by pervaporation using PVA/PAN hollow fiber composite membrane. <i>Desalination</i> , 2011 , 280, 252-258	10.3	55
60	Interfacial polymerization on PES hollow fiber membranes using mixed diamines for nanofiltration removal of salts containing oxyanions and ferric ions. <i>Desalination</i> , 2016 , 394, 176-184	10.3	53
59	Non-Polyamide Based Nanofiltration Membranes Using Green Metal-Organic Coordination Complexes: Implications for the Removal of Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019 , 53, 2688-2694	10.3	52

58	Preparation and characterization of PFSAPVABiO ₂ /PVA/PAN difunctional hollow fiber composite membranes. <i>Journal of Membrane Science</i> , 2010 , 360, 315-322	9.6	45
57	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 99-107	9.3	43
56	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2020 , 54, 11611-11621	10.3	43
55	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> , 2016 , 502, 106-115	9.6	43
54	Carbon nanotubes enhance permeability of ultrathin polyamide rejection layers. <i>Journal of Membrane Science</i> , 2019 , 570-571, 139-145	9.6	41
53	Novel high-flux positively charged composite membrane incorporating titanium-based MOFs for heavy metal removal. <i>Chemical Engineering Journal</i> , 2020 , 398, 125706	14.7	40
52	Bio-inspired GO-Ag/PVDF/F127 membrane with improved anti-fouling for natural organic matter (NOM) resistance. <i>Chemical Engineering Journal</i> , 2017 , 313, 450-460	14.7	38
51	Novel Swelling-Resistant Sodium Alginate Membrane Branching Modified by Glycogen for Highly Aqueous Ethanol Solution Pervaporation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27243-27253	9.5	37
50	High-performance polyamide/ceramic hollow fiber TFC membranes with TiO ₂ interlayer for pervaporation dehydration of isopropanol solution. <i>Journal of Membrane Science</i> , 2019 , 576, 26-35	9.6	34
49	Multilayer assembled CS-PSS/ceramic hollow fiber membranes for pervaporation dehydration. <i>Separation and Purification Technology</i> , 2018 , 203, 84-92	8.3	34
48	Improving the chlorine-tolerant ability of polypiperazine-amide nanofiltration membrane by adding NH ₂ -PEG-NH ₂ in the aqueous phase. <i>Journal of Membrane Science</i> , 2017 , 538, 9-17	9.6	32
47	Preparation of Polyvinylidene Fluoride (PVDF) Membranes via Nonsolvent Induced Phase Separation Process using a Tween 80 and H ₂ O Mixture As an Additive. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4388-4396	3.9	32
46	Fabrication and characterization of PVDF membranes via an in situ free radical polymerization method. <i>Chemical Engineering Science</i> , 2013 , 97, 296-308	4.4	31
45	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 & Interfaces</i> , 2016 , 8, 25386-95	9.5	30
44	Tailoring the polyester/polyamide backbone stiffness for the fabrication of high performance nanofiltration membrane. <i>Journal of Membrane Science</i> , 2017 , 541, 483-491	9.6	28
43	Superior nanofiltration membranes with gradient cross-linked selective layer fabricated via controlled hydrolysis. <i>Journal of Membrane Science</i> , 2020 , 604, 118067	9.6	27
42	Poly(styrene sulfonic acid) sodium modified nanofiltration membranes with improved permeability for the softening of highly concentrated seawater. <i>Desalination</i> , 2014 , 336, 179-186	10.3	26
41	Characterization and preparation of poly(vinylidene fluoride) (PVDF) microporous membranes with interconnected bicontinuous structures via non-solvent induced phase separation (NIPS). <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	26

40	Thin-film nanocomposite membranes containing tannic acid-Fe ³⁺ modified MoS ₂ nanosheets with enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020 , 616, 118605	9.6	25
39	Hydrophilic yolk-shell ZIF-8 modified polyamide thin-film nanocomposite membrane with improved permeability and selectivity. <i>Separation and Purification Technology</i> , 2020 , 247, 116990	8.3	24
38	Preparation and Characterization of Perfluorosulfonic Acid Nanofiber Membranes for Pervaporation-Assisted Esterification. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8149-8156	3.9	24
37	Perfluorosulfonic acid-tetraethoxysilane/polyacrylonitrile (PFSA-TEOS/PAN) hollow fiber composite membranes prepared for pervaporation dehydration of ethyl acetate-water solutions. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 4025-4035	2.9	24
36	Preparation and characterization of PVDF-P(PEGMA-r-MMA) ultrafiltration blend membranes via simplified blend method. <i>Desalination</i> , 2013 , 319, 47-59	10.3	23
35	The roles of alkali metal counter-ions of PFSA play in the formation of PVDF/PFSA-M hollow fiber membranes. <i>Desalination</i> , 2012 , 292, 45-52	10.3	22
34	Polyamide Membranes with Net-Like Nanostructures Induced by Different Charged MOFs for Elevated Nanofiltration. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 585-593	4.3	19
33	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> , 2020 , 601, 117916	9.6	18
32	Novel thin-film nanocomposite membrane with water-soluble polyhydroxylated fullerene for the separation of Mg ²⁺ /Li ⁺ aqueous solution. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48029	2.9	17
31	Preparation and characterization of a novel hydrophilic PVDF/PVA UF membrane modified by carboxylated multiwalled carbon nanotubes. <i>Polymer Engineering and Science</i> , 2016 , 56, 955-967	2.3	16
30	Enhanced pervaporation performance of SA-PFSA/ceramic hybrid membranes for ethanol dehydration. <i>Separation and Purification Technology</i> , 2018 , 206, 218-225	8.3	15
29	Preparation and characterization of catalytic TiO ₂ /PPESK/BES nanocomposite membranes and kinetics analysis in esterification. <i>Journal of Membrane Science</i> , 2013 , 430, 62-69	9.6	15
28	Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. <i>Journal of Membrane Science</i> , 2021 , 618, 118681	9.6	15
27	FeO/PVDF catalytic membrane treatment organic wastewater with simultaneously improved permeability, catalytic property and anti-fouling. <i>Environmental Research</i> , 2020 , 187, 109617	7.9	13
26	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> , 2014 , 132, 370-377	8.3	13
25	Characterization, separation performance, and model analysis of STPP-chitosan/PAN polyelectrolyte complex membranes. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1017-1026	2.9	12
24	Coupling heat curing and surface modification for the fabrication of high permselectivity polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2021 , 623, 119073	9.6	12
23	Fabrication and characterization of PVDF hollow fiber membranes employing in-situ self-assembly modulation concept. <i>Journal of Membrane Science</i> , 2015 , 486, 119-131	9.6	11

22	Preparation of MFI zeolite membranes on coarse macropore stainless steel hollow fibers for the recovery of bioalcohols. <i>RSC Advances</i> , 2016 , 6, 109936-109944	3.7	11
21	A PVDF/PVB composite UF membrane improved by F-127-wrapped fullerene for protein waste-water separation. <i>RSC Advances</i> , 2016 , 6, 83510-83519	3.7	11
20	Preparation and characterization of superhydrophilic PVDF electrospun nanofibrous membrane based on in situ free radical polymerization. <i>Materials Letters</i> , 2015 , 156, 58-61	3.3	10
19	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> , 2021 , 619, 118775	9.6	10
18	PFSA-TiO ₂ (or Al ₂ O ₃)-PVA/PVA/PAN difunctional hollow fiber composite membranes prepared by dip-coating method. <i>Iranian Polymer Journal (English Edition)</i> , 2012 , 21, 31-41	2.3	9
17	Double-Crosslinked GO Interlayer Framework as a Pervaporation Hybrid Membrane with High Performance. <i>ACS Omega</i> , 2019 , 4, 15043-15050	3.9	7
16	General synthesis of ultrafine metal oxide/reduced graphene oxide nanocomposites for ultrahigh-flux nanofiltration membrane.. <i>Nature Communications</i> , 2022 , 13, 471	17.4	7
15	Effect of polymer and additive on the structure and property of porous stainless steel hollow fiber. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1438-1443	2.8	6
14	Structure and property of PFSA/PES porous catalytic nanofibers. <i>Catalysis Today</i> , 2016 , 276, 133-138	5.3	5
13	Fast surface crosslinking ceramic hollow fiber pervaporation composite membrane with outstanding separation performance for isopropanol dehydration. <i>Separation and Purification Technology</i> , 2020 , 234, 116116	8.3	5
12	Enhancing nanofiltration performance for antibiotics/NaCl separation via water activation before microwave heating. <i>Journal of Membrane Science</i> , 2021 , 629, 119285	9.6	5
11	High-performance composite nanofiltration membranes fabricated via ternary mixture: Complementary preponderance of the fluorine-containing monomer 2,2'-bis(1-hydroxyl-1-trifluoromethyl-2,2,2-trifluoroethyl)-4,4'-methylene dianiline and the rigid aromatic diisocyanate. <i>Journal of Membrane Science</i> , 2019 , 575, 116188	2.9	4
10	Theophylline Molecular Imprinted Composite Membranes Prepared on a Ceramic Hollow Fiber Substrate. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 346-354	3.9	4
9	Spinnability of SPPEsk and its application in esterification. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	4
8	Reactive Distillation Performance of Difunctional Hollow Fiber Composite Membranes with Catalytic and Separative Properties as Structured Packing. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5958-5966	3.9	3
7	Preparation and characterization polyvinylidene fluoride membranes from water and ethanol coagulants via in situ free radical polymerization. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1044-1053	3.2	2
6	Carbon quantum dots doped thin-film nanocomposite (TFN) membrane on macroporous ceramic hollow fiber support via one-step interfacial polymerization. <i>Separation and Purification Technology</i> , 2021 , 266, 118572	8.3	2
5	Thin-Film Composite Membrane Prepared by Interfacial Polymerization on the Integrated ZIF-L Nanosheets Interface for Pervaporation Dehydration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39819-39830	9.5	2

4	2D nanosheets optimized electropray-assisted interfacial polymerization polyamide membrane with excellent separation performance. <i>Journal of Membrane Science</i> , 2022 , 647, 120308	9.6	o
3	Triethanolamine modification produces ultra-permeable nanofiltration membrane with enhanced removal efficiency of heavy metal ions. <i>Journal of Membrane Science</i> , 2021 , 644, 120127	9.6	o
2	Effects of locations of cellulose nanofibers in membrane on the performance of positively charged membranes. <i>Journal of Membrane Science</i> , 2022 , 652, 120464	9.6	o
1	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> , 2022 , 435, 129010	12.8	o