

CITATION REPORT

List of articles citing

A recent progress in thin film composite membrane: A review

DOI: 10.1016/j.desal.2011.04.004
Desalination, 2012, 287, 190-199.

Source: <https://exaly.com/paper-pdf/54511258/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
694	Thin film composite forward osmosis membranes based on polydopamine modified polysulfone substrates with enhancements in both water flux and salt rejection. 2012 , 80, 219-231		287
693	Fabrication and characterization of the chlorine-tolerant disulfonated poly(arylene ether sulfone)/hyperbranched aromatic polyamide-grafted silica composite reverse osmosis membrane. 2012 , 43, 221-229		16
692	Synchrotron SAXS to probe cross-linked network of polyamide reverse osmosis and nanofiltration membranes. <i>Journal of Membrane Science</i> , 2012 , 421-422, 51-59	9.6	36
691	Formation-structure-performance correlation of thin film composite membranes prepared by interfacial polymerization for gas separation. <i>Journal of Membrane Science</i> , 2012 , 421-422, 327-341	9.6	58
690	Desalination efficiency of a novel bipolar membrane based on functionalized polysulfone. <i>Desalination</i> , 2012 , 296, 37-45	10.3	23
689	Molecular design of thin film composite (TFC) hollow fiber membranes for isopropanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , 2012 , 405-406, 123-133	9.6	94
688	Sol-gel spin coating process to fabricate a new type of uniform and thin organosilica coating on polysulfone film. 2013 , 109, 130-133		15
687	Forward and pressure retarded osmosis: potential solutions for global challenges in energy and water supply. 2013 , 42, 6959-89		344
686	A new concept in polymeric thin-film composite nanofiltration membranes with antibacterial properties. 2013 , 29, 537-48		33
685	A review on membrane fabrication: Structure, properties and performance relationship. <i>Desalination</i> , 2013 , 326, 77-95	10.3	606
684	Use of 2,4,6-pyridinetri-carboxylic acid chloride as a novel co-monomer for the preparation of thin film composite polyamide membrane with improved bacterial resistance. <i>Journal of Membrane Science</i> , 2013 , 439, 87-95	9.6	29
683	A novel highly permeable positively charged nanofiltration membrane based on a nanoporous hyper-crosslinked polyamide barrier layer. <i>Journal of Membrane Science</i> , 2013 , 448, 180-189	9.6	78
682	Membrane Materials and Module Development, Historical Perspective. 2013 , 1		1
681	Polysulfone-chitosan blend ultrafiltration membranes: preparation, characterization, permeation and antifouling properties. 2013 , 3, 7855		69
680	Formation of thin film composite nanofiltration membrane: Effect of polysulfone substrate characteristics. <i>Desalination</i> , 2013 , 329, 9-18	10.3	144
679	Outer-selective pressure-retarded osmosis hollow fiber membranes from vacuum-assisted interfacial polymerization for osmotic power generation. <i>Environmental Science & Technology</i> , 2013 , 47, 13167-74	10.3	85
678	Thin-film composite nanofiltration membranes with improved acid stability prepared from naphthalene-1,3,6-trisulfonylchloride (NTSC) and trimesoyl chloride (TMC). <i>Desalination</i> , 2013 , 315, 164-172	10.3	33

677	Improving the flux of PDMS membranes via localized heating through incorporation of gold nanoparticles. <i>Journal of Membrane Science</i> , 2013 , 428, 63-69	9.6	49
676	Effect of amine salt surfactants on the performance of thin film composite poly(piperazine-amide) nanofiltration membranes. <i>Desalination</i> , 2013 , 315, 156-163	10.3	53
675	Attachment of silver nanoparticles (AgNPs) onto thin-film composite (TFC) membranes through covalent bonding to reduce membrane biofouling. <i>Journal of Membrane Science</i> , 2013 , 441, 73-82	9.6	255
674	Polyamide/Polyacrylonitrile (PA/PAN) thin film composite osmosis membranes: Film optimization, characterization and performance evaluation. <i>Journal of Membrane Science</i> , 2013 , 445, 25-33	9.6	174
673	The properties and filtration efficiency of activated carbon polymer composite membranes for the removal of humic acid. <i>Desalination</i> , 2013 , 313, 166-175	10.3	58
672	Interfacially synthesized chlorine-resistant polyimide thin film composite (TFC) reverse osmosis (RO) membranes. <i>Desalination</i> , 2013 , 309, 18-26	10.3	74
671	Hybrid approach combining dissipative particle dynamics and finite-difference diffusion model: simulation of reactive polymer coupling and interfacial polymerization. 2013 , 139, 154102		11
670	Thin Films and Membranes with Hierarchical Porosity. 2013 , 1		1
669	Interfacial Polymerization. 2013 , 1		2
668	Layer-by-Layer Assembly of Inorganic Nanosheets and Polyelectrolytes for Reverse Osmosis Composite Membranes. 2014 , 47, 180-186		7
667	Linear interfacial polymerization: theory and simulations with dissipative particle dynamics. 2014 , 141, 194906		9
666	Fabrication of a poly(piperazine-amide)/polysulfone hollow fiber membrane for effective removal of heavy metals in industrial wastewater. 2014 ,		
665	Nanofiltration of hazardous Congo red dye: Performance and flux decline analysis. 2014 , 4, 99-106		30
664	Aromatic Hyperbranched Polymers: Synthesis and Application. 2014 , 27-124		7
663	High flux PEO doped chitosan ultrafiltration composite membrane based on PAN nanofibrous substrate. 2014 , 18, S4-808-S4-811		3
662	Effects of membrane compositions and operating conditions on the filtration and backwashing performance of the activated carbon polymer composite membranes. <i>Desalination</i> , 2014 , 352, 181-189	10.3	12
661	Preparation and visible-light photochromism of phosphomolybdic acid/polyvinylpyrrolidone hybrid film. 2014 , 30, 703-708		14
660	Fabrication and use of hollow fiber thin film composite membranes for ethanol dehydration. <i>Journal of Membrane Science</i> , 2014 , 450, 124-137	9.6	39

659	Interfacially polymerized thin film nanofiltration membranes on TiO ₂ coated polysulfone substrate. 2014 , 20, 1261-1268		89
658	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications. 2014 , 39, 683-706		1743
657	Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. 2014 , 99, 584-92		114
656	Optimization of preparation conditions of polyamide thin film composite membrane for organic solvent nanofiltration. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 327-337	2.8	27
655	Critical appraisal of current nanofiltration modelling strategies for seawater desalination and further insights on dielectric exclusion. <i>Desalination</i> , 2014 , 343, 154-161	10.3	25
654	Current and future applications for nanofiltration technology in the food processing. 2014 , 92, 161-177		96
653	Effect of nano-amphiphilic cellulose as a modifier to PSf composite membranes. 2014 , 107, 199-203		13
652	Phase separation in a PSf/DMF/water system: a proposed mechanism for macrovoid formation. 2014 , 4, 42391-42402		17
651	Surface mineralization of commercial thin-film composite polyamide membrane by depositing barium sulfate for improved reverse osmosis performance and antifouling property. <i>Desalination</i> , 2014 , 351, 228-235	10.3	31
650	Effect of amine spacer of PEG on the properties, performance and antifouling behavior of poly(piperazineamide) thin film composite nanofiltration membranes prepared by in situ PEGylation approach. <i>Journal of Membrane Science</i> , 2014 , 472, 154-166	9.6	36
649	Thin-film composite membranes with modified polyvinylidene fluoride substrate for ethanol dehydration via pervaporation. 2014 , 118, 173-183		43
648	A comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. <i>Desalination</i> , 2014 , 354, 125-142	10.3	39
647	Preparation and properties of polyamide/titania composite nanofiltration membrane by interfacial polymerization. <i>Desalination</i> , 2014 , 352, 38-44	10.3	31
646	All-nanoparticle layer-by-layer surface modification of micro- and ultrafiltration membranes. 2014 , 30, 5545-56		23
645	Simplified synthesis route for interfacially polymerized polyamide membranes. <i>Journal of Membrane Science</i> , 2014 , 451, 148-156	9.6	35
644	High-performance reverse osmosis CNT/polyamide nanocomposite membrane by controlled interfacial interactions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2819-29	9.5	222
643	Facile in situ PEGylation of polyamide thin film composite membranes for improving fouling resistance. <i>Journal of Membrane Science</i> , 2014 , 455, 271-282	9.6	46
642	Effect of ammonium salts on the properties of poly(piperazineamide) thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2014 , 465, 34-40	9.6	47

641	RO membrane treatment of domestic grey-water containing different detergent types. 2014 , 52, 4071-4078		3
640	Advanced Materials in Ultrafiltration and Nanofiltration Membranes. 2015 , 7-34		1
639	Development and application of reverse osmosis for separation. 2015 , 139-175		0
638	Engineering design of outer-selective tribore hollow fiber membranes for forward osmosis and oil-water separation. 2015 , 61, 4491-4501		15
637	. 2015 ,		9
636	Novel diamine-modified composite nanofiltration membranes with chlorine resistance using monomers of 1,2,4,5-benzene tetracarbonyl chloride and m-phenylenediamine. 2015 , 3, 8816-8824		44
635	Porous Carbons [Hyperbranched Polymers [Polymer Solvation. 2015 ,		2
634	Experimental determination of the hydrodynamic forces within nanofiltration membranes and evaluation of the current theoretical descriptions. <i>Separation and Purification Technology</i> , 2015 , 149, 339-348	8.3	14
633	Enhancement in membrane performances of a commercial polyamide reverse osmosis membrane via surface coating of polydopamine followed by the grafting of polyethylenimine. 2015 , 5, 98566-98575		24
632	A review on RO membrane technology: Developments and challenges. <i>Desalination</i> , 2015 , 368, 10-26	10.3	318
631	Study on the thin film composite poly(piperazine-amide) nanofiltration membranes made of different polymeric substrates: Effect of operating conditions. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 753-760	2.8	17
630	PEGylation and incorporation of triazine ring into thin film composite reverse osmosis membranes for enhancement of anti-organic and anti-biofouling properties. <i>Desalination</i> , 2015 , 360, 108-117	10.3	31
629	Room temperature synthesis of ZIF-8 membranes from seeds anchored in gelatin films for gas separation. 2015 , 17, 1576-1582		15
628	Advances in polymeric membranes for water treatment. 2015 , 3-41		17
627	Preparation of Antifouling Nanofiltration Membrane via Interfacial Polymerization of Fluorinated Polyamine and Trimesoyl Chloride. 2015 , 54, 8302-8310		20
626	Stable and effective super-hydrophilic polysulfone nanofiber mats for oil/water separation. 2015 , 72, 125-133		29
625	Physicochemical characteristics of poly(piperazine-amide) TFC nanofiltration membrane prepared at various reaction times and its relation to the performance. 2015 , 35, 71-78		13
624	Ion-Responsive Channels of Zwitterion-Carbon Nanotube Membrane for Rapid Water Permeation and Ultrahigh Mono-/Multivalent Ion Selectivity. 2015 , 9, 7488-96		89

623	Preparation of a positively charged nanofiltration membrane based on hydrophilic/hydrophobic transformation of a poly(ionic liquid). 2015 , 3, 12367-12376		36
622	Filtration-based synthesis of micelle-derived composite membranes for high-flux ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6974-81	9.5	25
621	Recent developments on nanostructured polymer-based membranes. 2015 , 8, 76-82		32
620	Gas separation performance of thin film nanocomposite membranes incorporated with polymethyl methacrylate grafted multi-walled carbon nanotubes. 2015 , 102, 339-345		27
619	Thin film nanocomposite embedded with polymethyl methacrylate modified multi-walled carbon nanotubes for CO ₂ removal. 2015 , 5, 31683-31690		22
618	Improving the permeance of hybrid polymer/metal-organic framework (MOF) membranes for organic solvent nanofiltration (OSN) – development of MOF thin films via interfacial synthesis. 2015 , 3, 9668-9674		122
617	A review on polyamide thin film nanocomposite (TFN) membranes: History, applications, challenges and approaches. 2015 , 80, 306-24		466
616	Thin-film composite membranes for organophilic nanofiltration based on photo-cross-linkable polyimide. 2015 , 86, 233-242		19
615	Advances in water treatment by microfiltration, ultrafiltration, and nanofiltration. 2015 , 83-128		20
614	Regulating the aqueous phase monomer balance for flux improvement in polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , 2015 , 487, 74-82	9.6	46
613	Improving fouling resistance and chlorine stability of aromatic polyamide thin-film composite RO membrane by surface grafting of polyvinyl alcohol (PVA). <i>Desalination</i> , 2015 , 367, 11-20	10.3	121
612	Poly(amidoamine) dendrimer (PAMAM) grafted on thin film composite (TFC) nanofiltration (NF) hollow fiber membranes for heavy metal removal. <i>Journal of Membrane Science</i> , 2015 , 487, 117-126	9.6	190
611	Fabrication of TaS ₂ /Ag nanocomposite thin films with near-zero temperature coefficient of resistance. 2015 , 640, 147-153		3
610	Improving the hydrophilicity and fouling resistance of RO membranes by surface immobilization of PVP based on a metal-polyphenol precursor layer. <i>Journal of Membrane Science</i> , 2015 , 496, 58-69	9.6	81
609	Layer-by-Layer Fabrication of High-Performance Polyamide/ZIF-8 Nanocomposite Membrane for Nanofiltration Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24082-93	9.5	157
608	Effect of Cross-Linking on the Structure and Growth of Polymer Films Prepared by Interfacial Polymerization. 2015 , 31, 12279-90		16
607	Ink-jet printing assisted fabrication of patterned thin film composite membranes. <i>Journal of Membrane Science</i> , 2015 , 493, 508-514	9.6	50
606	Hierarchical nanostructures as novel antifouling agents in nanofiltration process. <i>Desalination</i> , 2015 , 375, 116-120	10.3	18

605	Rational design of nanomaterials for water treatment. 2015 , 7, 17167-94		157
604	A novel high-flux, thin-film composite reverse osmosis membrane modified by chitosan for advanced water treatment. 2015 , 5, 6687-6694		52
603	Efficient synthesis of interfacially polymerized membranes for solvent resistant nanofiltration. <i>Journal of Membrane Science</i> , 2015 , 476, 356-363	9.6	78
602	Visualization and characterization of interfacial polymerization layer formation. 2015 , 15, 575-80		48
601	Thin film composite membrane [Recent development and future potential. <i>Desalination</i> , 2015 , 356, 140-148	10.3	182
600	Study of synthesis parameters and active layer morphology of interfacially polymerized polyamide/polysulfone membranes. 2015 , 86, 199-208		79
599	Characterization Methods of Thin Film Composite Nanofiltration Membranes. 2015 , 44, 135-156		78
598	Low fouling and improved chlorine resistant thin film composite reverse osmosis membranes by cerium(IV)/polyvinyl alcohol mediated surface modification. <i>Desalination</i> , 2015 , 357, 93-103	10.3	39
597	A comprehensive review on surface modified polymer membranes for biofouling mitigation. <i>Desalination</i> , 2015 , 356, 187-207	10.3	372
596	Preparation of thin-film composite nanofiltration membranes with improved antifouling property and flux using 2,2'-oxybis-ethylamine. <i>Desalination</i> , 2015 , 355, 141-146	10.3	42
595	Preparation of dense gelatin membranes by combining temperature induced gelation and dry-casting. <i>Journal of Membrane Science</i> , 2015 , 473, 45-53	9.6	17
594	Effective and reusable oil/water separation membranes based on modified polysulfone electrospun nanofiber mats. 2015 , 259, 449-456		127
593	Membrane Processes for Dye Wastewater Treatment: Recent Progress in Fouling Control. 2015 , 45, 1007-1040		100
592	Improved Performance of CaCl ₂ Incorporated Polyethersulfone Ultrafiltration Membranes. 2016 , 60, 181-191		15
591	Relating Water/Solute Permeability Coefficients to the Performance of Thin-Film Nanofiber Composite Forward Osmosis Membrane. 2016 , 06,		8
590	Sustainable Process for the Preparation of High-Performance Thin-Film Composite Membranes using Ionic Liquids as the Reaction Medium. 2016 , 9, 1101-11		37
589	Single-Walled Carbon Nanotube Film Supported Nanofiltration Membrane with a Nearly 10 nm Thick Polyamide Selective Layer for High-Flux and High-Rejection Desalination. 2016 , 12, 5034-5041		214
588	Bioadhesion-inspired fabrication of robust thin-film composite membranes with tunable solvent permeation properties. 2016 , 6, 103981-103992		14

587	Developing high throughput thin film composite polyamide membranes for forward osmosis treatment of SAGD produced water. <i>Journal of Membrane Science</i> , 2016 , 511, 29-39	9.6	54
586	Organic phase addition of anionic/non-ionic surfactants to poly(paraphenyleneterephthalamide) thin film composite nanofiltration membranes. 2016 , 106, 13-25		13
585	Influence of substrate processing and interfacial polymerization conditions on the surface topography and permselective properties of surface-patterned thin-film composite membranes. <i>Journal of Membrane Science</i> , 2016 , 512, 50-60	9.6	49
584	Engineering amphiphilic nanofiltration membrane surfaces with a multi-defense mechanism for improved antifouling performances. 2016 , 4, 7892-7902		51
583	Recent advances in polymer and polymer composite membranes for reverse and forward osmosis processes. 2016 , 61, 104-155		250
582	Improving the water permeability and antifouling property of thin-film composite polyamide nanofiltration membrane by modifying the active layer with triethanolamine. <i>Journal of Membrane Science</i> , 2016 , 513, 108-116	9.6	110
581	A thin-film nanocomposite nanofiltration membrane prepared on a support with in situ embedded zeolite nanoparticles. <i>Separation and Purification Technology</i> , 2016 , 166, 230-239	8.3	125
580	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets Functionalized Thin Film Nanocomposite Membrane for Enhanced Antimicrobial Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25508-19	9.5	223
579	Current trends in interfacial polymerization chemistry. 2016 , 63, 86-142		176
578	Encyclopedia of Membranes. 2016 , 352-354		
577	Encyclopedia of Membranes. 2016 , 357-358		
576	Irradiation effects on RO membranes: Comparison of aerobic and anaerobic conditions. 2016 , 134, 126-135		5
575	Effect of Final Monomer Deposition Steps on Molecular Layer-by-Layer Polyamide Surface Properties. 2016 , 32, 10815-10823		12
574	Encyclopedia of Membranes. 2016 , 436-436		
573	MOF nanoparticles of MIL-68(Al), MIL-101(Cr) and ZIF-11 for thin film nanocomposite organic solvent nanofiltration membranes. 2016 , 6, 90417-90426		65
572	Thin film composite nanofiltration membrane prepared by the interfacial polymerization of 1,2,4,5-benzene tetracarbonyl chloride on the mixed amines cross-linked poly(ether imide) support. <i>Journal of Membrane Science</i> , 2016 , 520, 19-28	9.6	61
571	Novel thin film composite forward osmosis membrane of enhanced water flux and anti-fouling property with N-[3-(trimethoxysilyl) propyl] ethylenediamine incorporated. <i>Journal of Membrane Science</i> , 2016 , 520, 400-414	9.6	54
570	Effects of membrane-filtered soy hull pectin and pre-emulsified fiber/oil on chemical and technological properties of low fat and low salt meat emulsions. 2016 , 53, 2580-8		8

569	Polymeric Membrane Reactors. 2016 , 104-137		1
568	Combination and hybridisation of treatments in dye wastewater treatment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3618-3631	6.8	71
567	Application of Nanomaterial-Polymer Membranes for Water and Wastewater Purification. 2016 , 233-250		
566	Plasma modification of substrate with poly(methylhydrosiloxane) for enhancing the interfacial stability of PDMS/PAN composite membrane. <i>Journal of Membrane Science</i> , 2016 , 520, 779-789	9.6	25
565	Experimental study of PES/SiO ₂ based TFC hollow fiber membrane modules for oilfield produced water desalination with low-pressure nanofiltration process. 2016 , 44, 118-125		18
564	Thin film nanocomposite: the next generation selective membrane for CO ₂ removal. 2016 , 4, 15726-15748		50
563	Encyclopedia of Membranes. 2016 , 285-285		
562	Static and dynamic assessments of polysulfonamide and poly(amide-sulfonamide) acid-stable membranes. 2016 , 67, 453-466		36
561	Improved chlorine tolerance of a polyvinyl pyrrolidone-polysulfone membrane enabled by carboxylated carbon nanotubes. 2016 , 104, 497-506		25
560	Chemistry and fabrication of polymeric nanofiltration membranes: A review. 2016 , 103, 417-456		267
559	Atomic layer deposition of TiO ₂ film on a polyethersulfone membrane: separation applications. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	24
558	Separation of xylose using a thin-film composite nanofiltration membrane: screening of interfacial polymerization factors. 2016 , 6, 69454-69464		3
557	Synthesis and characterization of g-C ₃ N ₄ nanosheet modified polyamide nanofiltration membranes with good permeation and antifouling properties. 2016 , 6, 112148-112157		33
556	Encyclopedia of Membranes. 2016 , 386-387		
555	A Novel Semi-aromatic Polyamide/Mesoporous Silica Sphere Nanocomposite Membrane with Superior Separation Performance. 2016 , 45, 214-216		2
554	2D nanostructures for water purification: graphene and beyond. 2016 , 8, 15115-31		242
553	Incorporating hyperbranched polyester into cross-linked polyamide layer to enhance both permeability and selectivity of nanofiltration membrane. <i>Journal of Membrane Science</i> , 2016 , 518, 141-149	9.6	42
552	Facile surface modification by aldehydes to enhance chlorine resistance of polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , 2016 , 518, 40-49	9.6	57

551	Encyclopedia of Membranes. 2016 , 336-338		
550	Encyclopedia of Membranes. 2016 , 473-474		0
549	Encyclopedia of Membranes. 2016 , 487-488		
548	Encyclopedia of Membranes. 2016 , 507-508		0
547	Polyphenol Coating as an Interlayer for Thin-Film Composite Membranes with Enhanced Nanofiltration Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32512-32519	9.5	132
546	A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. 2016 , 6, 22069		186
545	High Levels of Residue within Polymeric Hollow Fiber Membranes Used for Blood Oxygenation. 2016 , 62, 690-696		1
544	Facile preparation and separation performances of cellulose nanofibrous membranes. 2016 , 133, n/a-n/a		17
543	Layered double hydroxide/graphene oxide hybrid incorporated polysulfone substrate for thin-film nanocomposite forward osmosis membranes. 2016 , 6, 56599-56609		60
542	Sub-10 nm Wide Cellulose Nanofibers for Ultrathin Nanoporous Membranes with High Organic Permeation. 2016 , 26, 792-800		71
541	Performance characteristics of surfactant treated commercial polyamide membrane in the nanofiltration of model solution of reactive yellow 160. 2016 , 9, e27-e37		6
540	Polyamide/PVC based composite hollow fiber nanofiltration membranes: Effect of substrate on properties and performance. <i>Journal of Membrane Science</i> , 2016 , 505, 231-240	9.6	49
539	Fabrication of electro-neutral nanofiltration membranes at neutral pH with antifouling surface via interfacial polymerization from a novel zwitterionic amine monomer. <i>Journal of Membrane Science</i> , 2016 , 503, 101-109	9.6	91
538	Layer-by-layer self-assembly of polycation/GO nanofiltration membrane with enhanced stability and fouling resistance. <i>Separation and Purification Technology</i> , 2016 , 160, 123-131	8.3	132
537	Desalination by pervaporation: A review. <i>Desalination</i> , 2016 , 387, 46-60	10.3	163
536	Graphene oxide incorporated thin film nanocomposite nanofiltration membrane for enhanced salt removal performance. <i>Desalination</i> , 2016 , 387, 14-24	10.3	219
535	Fabrication of a high-flux sulfonated polyamide nanofiltration membrane: Experimental and dissipative particle dynamics studies. <i>Journal of Membrane Science</i> , 2016 , 505, 119-129	9.6	53
534	A practical approach to synthesize polyamide thin film nanocomposite (TFN) membranes with improved separation properties for water/wastewater treatment. 2016 , 4, 4134-4144		84

533	Fabrication of flexible self-standing all-cellulose nanofibrous composite membranes for virus removal. 2016 , 143, 9-17		30
532	Market and technology assessment of natural gas processing: A review. 2016 , 30, 487-514		54
531	Polyurethane TFC nanofiltration membranes based on interfacial polymerization of poly(bis-MPA) and MDI on the polyethersulfone support. <i>Separation and Purification Technology</i> , 2016 , 162, 37-44	8.3	26
530	Fabrication of semi-aromatic polyamide/spherical mesoporous silica nanocomposite reverse osmosis membrane with superior permeability. 2016 , 363, 338-345		26
529	Analytical potential of rf-PGD-TOFMS for depth profiling of an oxidized thin film composite. 2016 , 31, 288-296		7
528	High filtration performance thin film nanofibrous composite membrane prepared by electro spraying technique and hot-pressing treatment. <i>Journal of Membrane Science</i> , 2016 , 499, 470-479 ^{9.6}		35
527	A comprehensive review on anti-fouling nanocomposite membranes for pressure driven membrane separation processes. <i>Desalination</i> , 2016 , 379, 137-154	10.3	379
526	Negatively charged hyperbranched polyglycerol grafted membranes for osmotic power generation from municipal wastewater. 2016 , 89, 50-8		47
525	A statistical study of the effect of preparation conditions on the structure and performance of thin film composite reverse osmosis membranes. 2016 , 57, 2924-2941		2
524	Minimizing structural parameter of thin film composite forward osmosis membranes using polysulfone/halloysite nanotubes as membrane substrates. <i>Desalination</i> , 2016 , 377, 152-162	10.3	123
523	Green modification of outer selective P84 nanofiltration (NF) hollow fiber membranes for cadmium removal. <i>Journal of Membrane Science</i> , 2016 , 499, 361-369	9.6	75
522	Novel sulfonated polyamide thin-film composite nanofiltration membranes with improved water flux and anti-fouling properties. <i>Desalination</i> , 2016 , 377, 11-22	10.3	61
521	Membrane materials for water purification: design, development, and application. 2016 , 2, 17-42		363
520	Recent progress in interfacial polymerization. 2017 , 1, 1028-1040		71
519	Enhanced desalination of polyamide thin film nanocomposite incorporated with acid treated multiwalled carbon nanotube-titania nanotube hybrid. <i>Desalination</i> , 2017 , 409, 163-170	10.3	69
518	Robust synthesis of free-standing and thickness controllable conjugated microporous polymer nanofilms. 2017 , 53, 1989-1992		26
517	Improved separation and antifouling properties of thin-film composite nanofiltration membrane by the incorporation of cGO. 2017 , 407, 260-275		45
516	A novel high-flux thin film composite reverse osmosis membrane modified by polysaccharide supramolecular assembly. 2017 , 134, 45026		15

515	Hollow fiber nanofiltration membranes: A comparative review of interfacial polymerization and phase inversion fabrication methods. 2017 , 52, 2120-2136		20
514	Nanofiltration membranes for ionic liquid recovery. 2017 , 52, 2098-2107		12
513	A parametric study on the synergistic impacts of chemical additives on permeation properties of thin film composite polyamide membrane. <i>Journal of Membrane Science</i> , 2017 , 535, 248-257	9.6	66
512	Gas Phase Sensing of Alcohols by Metal Organic Framework-Polymer Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24926-24935	9.5	39
511	A novel polyester composite nanofiltration membrane formed by interfacial polymerization of pentaerythritol (PE) and trimesoyl chloride (TMC). 2017 , 416, 152-159		50
510	Forward-osmosis-aided concentration of fructose sugar through hydrophilized polyamide membrane: Molecular modeling and economic estimation. 2017 , 134,		12
509	Positively Charged Nanofiltration Membrane with Dendritic Surface for Toxic Element Removal. 2017 , 5, 784-792		67
508	Recent advances in forward osmosis (FO) membrane: Chemical modifications on membranes for FO processes. <i>Desalination</i> , 2017 , 419, 101-116	10.3	133
507	Polyol-functionalized thin-film composite membranes with improved transport properties and boron removal in reverse osmosis. <i>Journal of Membrane Science</i> , 2017 , 540, 71-77	9.6	34
506	A polyamide thin-film composite membrane modified by Michael addition grafting of hyperbranched poly(amine ester). <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	4
505	Chlorine-resistance of reverse osmosis (RO) polyamide membranes. 2017 , 72, 1-15		133
504	Poly(p-phenylene terephthamide) embedded in a polysulfone as the substrate for improving compaction resistance and adhesion of a thin film composite polyamide membrane. 2017 , 5, 13610-13624		44
503	Preparation of thermally stable composite forward osmosis hollow fiber membranes based on copoly(phthalazinone biphenyl ether sulfone) substrates. 2017 , 166, 91-100		11
502	A facile and scalable fabrication method for thin film composite reverse osmosis membranes: dual-layer slot coating. 2017 , 5, 6648-6655		49
501	Mechanical behavior of MWCNTs based mixed-matrix polymeric and carbon hollow fiber membranes. <i>Separation and Purification Technology</i> , 2017 , 183, 21-31	8.3	10
500	Perspectives on water-facilitated CO ₂ capture materials. 2017 , 5, 6794-6816		47
499	Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. <i>Journal of Membrane Science</i> , 2017 , 524, 502-528	9.6	107
498	Fabrication of polyamide thin film composite reverse osmosis membranes via support-free interfacial polymerization. <i>Journal of Membrane Science</i> , 2017 , 526, 52-59	9.6	105

497	Ultrathin Polyamide Membranes Fabricated from Free-Standing Interfacial Polymerization: Synthesis, Modifications, and Post-treatment. 2017 , 56, 513-523		38
496	Geometric Restriction of Gas Permeance in Ultrathin Film Composite Membranes Evaluated Using an Integrated Experimental and Modeling Approach. 2017 , 56, 351-358		21
495	Elevated Performance of Thin Film Nanocomposite Membranes Enabled by Modified Hydrophilic MOFs for Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1975-1986	9.5	264
494	Sulfonated multiwall carbon nanotubes assisted thin-film nanocomposite membrane with enhanced water flux and anti-fouling property. <i>Journal of Membrane Science</i> , 2017 , 524, 344-353	9.6	136
493	Developing nanofiltration membrane based on microporous poly(tetrafluoroethylene) substrates by bi-stretching process. <i>Journal of Membrane Science</i> , 2017 , 524, 612-622	9.6	18
492	Modification of thin film composite polyamide membranes with 3D hyperbranched polyglycerol for simultaneous improvement in their filtration performance and antifouling properties. 2017 , 5, 23190-23197		64
491	Highly permeable and mechanically durable forward osmosis membranes prepared using polyethylene lithium ion battery separators. <i>Journal of Membrane Science</i> , 2017 , 544, 213-220	9.6	48
490	Improvement of Polyamide Thin Film Nanocomposite Membrane Assisted by Tannic Acid-Fe Functionalized Multiwall Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32255-32263	9.5	60
489	Improved hydrophilicity and anti-fouling properties of polyamide TFN membrane comprising carbide derived carbon. <i>Desalination</i> , 2017 , 420, 125-135	10.3	15
488	Preparation and characterization of a thin-film composite reverse osmosis membrane using a polysulfone membrane including metal-organic frameworks. <i>Journal of Membrane Science</i> , 2017 , 541, 510-518	9.6	68
487	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. 2017 , 27, 1701738		39
486	Enhancing the performance of thin-film nanocomposite nanofiltration membranes using MAH-modified GO nanosheets. 2017 , 7, 54898-54910		46
485	Graphene oxide-embedded polyamide nanofiltration membranes for selective ion separation. 2017 , 5, 25632-25640		62
484	Enabling Widespread Use of Microporous Materials for Challenging Organic Solvent Separations. 2017 , 29, 9863-9876		37
483	Surface Engineering of Thin Film Composite Polyamide Membranes with Silver Nanoparticles through Layer-by-Layer Interfacial Polymerization for Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40987-40997	9.5	45
482	Treatment of radioactive liquid effluents by reverse osmosis membranes: From lab-scale to pilot-scale. 2017 , 123, 311-320		36
481	Fabrication of loose inner-selective polyethersulfone (PES) hollow fibers by one-step spinning process for nanofiltration (NF) of textile dyes. <i>Journal of Membrane Science</i> , 2017 , 541, 413-424	9.6	55
480	A review of recent advances in molecular simulation of graphene-derived membranes for gas separation. 2017 , 71, 1		11

479	Highly permeable zeolite imidazolate framework composite membranes fabricated via a chelation-assisted interfacial reaction. 2017 , 5, 15342-15355		80
478	Recent progress in molecular simulation of nanoporous graphene membranes for gas separation. 2017 , 71, 54-62		8
477	Desalination characteristics of TFN-RO membrane incorporated with ZIF-8 nanoparticles. <i>Desalination</i> , 2017 , 420, 12-20	10.3	71
476	Fundamentals of Membrane Processes. 2017 , 13-37		14
475	Preparation and characterization of PDMS/zeolite 4A/PAN mixed matrix thin film composite membrane for CO ₂ /N ₂ and CO ₂ /CH ₄ separations. 2017 , 43, 2959-2984		17
474	Fundamentals of Membrane Bioreactors. 2017 ,		18
473	Enhanced both water flux and salt rejection of reverse osmosis membrane through combining isophthaloyl dichloride with biphenyl tetraacyl chloride as organic phase monomer for seawater desalination. <i>Journal of Membrane Science</i> , 2017 , 522, 175-182	9.6	62
472	Interfacial synthesis of ZIF-8 membranes with improved nanofiltration performance. <i>Journal of Membrane Science</i> , 2017 , 523, 561-566	9.6	77
471	Synthesis of thin film composite polyamide membranes: Effect of monohydric and polyhydric alcohol additives in aqueous solution. <i>Journal of Membrane Science</i> , 2017 , 523, 336-345	9.6	48
470	Perspective on 3D printing of separation membranes and comparison to related unconventional fabrication techniques. <i>Journal of Membrane Science</i> , 2017 , 523, 596-613	9.6	212
469	Cellulose nanofiber intermediary to fabricate highly-permeable ultrathin nanofiltration membranes for fast water purification. <i>Journal of Membrane Science</i> , 2017 , 524, 174-185	9.6	89
468	Role of Organic Acids in Flux Enhancement of Polyamide Nanofiltration Membranes. 2017 , 40, 76-87		8
467	Antibacterial Electrospun Poly(vinyl alcohol)/Enzymatic Synthesized Poly(catechol) Nanofibrous Midlayer Membrane for Ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33107-33118	9.5	36
466	Application of nanotechnology, nanofiltration, and drinking and wastewater treatment—vision for the future. 2017 , 587-620		17
465	High-Strength Konjac Glucomannan/Silver Nanowires Composite Films with Antibacterial Properties. 2017 , 10,		15
464	Poly(piperazine-amide)/PES Composite Multi-Channel Capillary Membranes for Low-Pressure Nanofiltration. <i>Polymers</i> , 2017 , 9,	4.5	5
463	Polymeric thin film composite membrane for CO ₂ separation. 2017 , 331-365		1
462	Fabrication of nanofiltration membranes via stepwise assembly of oligoamide on alumina supports: Effect of number of reaction cycles on membrane properties. <i>Journal of Membrane Science</i> , 2017 , 543, 269-276	9.6	5

461	Evidence of a Transition Layer between the Free Surface and the Bulk. 2018 , 9, 1195-1199		14
460	Thin film composite membranes containing intrinsic CD cavities in the selective layer. <i>Journal of Membrane Science</i> , 2018 , 551, 294-304	9.6	45
459	Facile and Scalable Flow-Induced Deposition of Organosilica on Porous Polymer Supports for Reverse Osmosis Desalination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14070-14078	9.5	14
458	Transforming covalent organic framework into thin-film composite membranes for hydrocarbon recovery. 2018 , 53, 1752-1759		8
457	Preparation of polyamide/polyacrylonitrile composite hollow fiber membrane by synchronous procedure of spinning and interfacial polymerization. <i>Journal of Membrane Science</i> , 2018 , 551, 261-272	9.6	25
456	A review of polymeric membranes and processes for potable water reuse. 2016 , 81, 209-237		304
455	Effect of surfactant on morphology and pore size of polysulfone membrane. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	11
454	Reactable substrate participating interfacial polymerization for thin film composite membranes with enhanced salt rejection performance. <i>Desalination</i> , 2018 , 436, 1-7	10.3	28
453	Recent progress in organic redox flow batteries: Active materials, electrolytes and membranes. 2018 , 27, 1304-1325		127
452	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 123-130	11	148
451	Interfacial Polymerization with Electrospayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 117-122	11	75
450	Polyethylene-supported high performance reverse osmosis membranes with enhanced mechanical and chemical durability. <i>Desalination</i> , 2018 , 436, 28-38	10.3	62
449	Fabrication and characterization of temperature and pH resistant thin film nanocomposite membranes embedded with halloysite nanotubes for dye rejection. <i>Desalination</i> , 2018 , 429, 20-32	10.3	47
448	Efficient surface modification of thin-film composite membranes with self-catalyzed tris(2-aminoethyl)amine for forward osmosis separation. 2018 , 178, 82-92		27
447	Robust fabrication of thin film polyamide-TiO nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. 2018 , 8, 784		96
446	Direct interfacial polymerization onto thin ceramic hollow fibers. <i>Journal of Membrane Science</i> , 2018 , 550, 296-301	9.6	18
445	Aromatic solvent-assisted interfacial polymerization to prepare high performance thin film composite reverse osmosis membranes based on hydrophilic supports. 2018 , 144, 159-167		45
444	Modification of polyamide TFC nanofiltration membrane for improving separation and antifouling properties.. 2018 , 8, 15102-15110		28

443	Tailor-made thin film nanocomposite membrane incorporated with graphene oxide using novel interfacial polymerization technique for enhanced water separation. 2018 , 344, 524-534		143
442	A novel pathway for high performance RO membrane: Preparing active layer with decreased thickness and enhanced compactness by incorporating tannic acid into the support. <i>Journal of Membrane Science</i> , 2018 , 555, 157-168	9.6	60
441	Preparation of hydrolysis of poly(acrylonitrile-co-methyl acrylate) membranes via thermally induced phase separation: Effects of hydrolysis conditions and additives. 2018 , 135, 46380		4
440	Polysulfone/N,Pd co-doped TiO ₂ composite membranes for photocatalytic dye degradation. <i>Separation and Purification Technology</i> , 2018 , 191, 122-133	8.3	79
439	Sandwich morphology and superior dye-removal performances for nanofiltration membranes self-assembled via graphene oxide and carbon nanotubes. 2018 , 428, 990-999		77
438	Surface-Modified Nanocomposite Membranes. 2018 , 47, 288-305		17
437	Studies on the properties of RO membranes for salt and boron removal: Influence of thermal treatment methods and rinsing treatments. <i>Desalination</i> , 2018 , 428, 218-226	10.3	22
436	Thin film composite membrane prepared by interfacial polymerization as an ion exchange membrane for salinity gradient power. 2018 , 59, 362-371		14
435	Thin-film nanofiltration membrane with monomers of 1,2,4,5-benzene tetracarbonyl chloride and ethylene diamine on electrospun support: preparation, morphology and chlorine resistance properties. 2018 , 75, 3407-3425		5
434	Novel Thin Film Composite Nanofiltration Membrane Using Monoethanolamine (MEA) and Diethanolamine (DEA) with m-Phenylenediamine (MPD). <i>Journal of Polymers and the Environment</i> , 2018 , 26, 1745-1753	4.5	6
433	Recent developments in polymeric electrospun nanofibrous membranes for seawater desalination.. 2018 , 8, 37915-37938		32
432	Nanocomposite hollow fiber membranes with recyclable β -cyclodextrin encapsulated magnetite nanoparticles for water vapor separation. 2018 , 6, 24569-24579		21
431	7. Preparation of synthetic (polymeric and inorganic) membranes and their characterization. 2018 , 203-254		
430	Membrane desalination technologies in water treatment: A review. 2018 , 13, 738-752		26
429	Specialty Application of Functional Biopolymers. 2018 , 1-48		
428	A Study on Anti Fouling Behaviour and Mechanical Properties of PVA/Chitosan/TEOS Hybrid membrane in The Treatment of Copper Solution. 2018 , 358, 012055		0
427	Hyper-cross-linked thin polydimethylsiloxane films. 2018 , 109, 214-221		5
426	Innovative high flux/low pressure blend thin film composite membranes for water softening. 2018 , 131, 384-399		9

425	Thermally and chemically stable poly(arylene ether nitrile)/halloysite nanotubes intercalated graphene oxide nanofibrous composite membranes for highly efficient oil/water emulsion separation in harsh environment. <i>Journal of Membrane Science</i> , 2018 , 567, 76-88	9.6	77
424	Introduction to Membranes. 2018 , 25, 1-37		30
423	The use of a star-shaped trifunctional acyl chloride for the preparation of polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , 2018 , 567, 321-328	9.6	12
422	Nanoparticle-templated nanofiltration membranes for ultrahigh performance desalination. 2018 , 9, 2004		294
421	Thin cyclomatrix polyphosphazene films: interfacial polymerization of hexachlorocyclotriphosphazene with aromatic biphenols. 2018 , 9, 3169-3180		10
420	Novel poly(piperazine-amide) (PA) nanofiltration membrane based poly(m-phenylene isophthalamide) (PMIA) hollow fiber substrate for treatment of dye solutions. 2018 , 351, 1013-1026		52
419	Improving the chlorine resistance property of polyamide TFC RO membrane by polyethylene glycol diacrylate (PEGDA) coating. <i>Desalination</i> , 2018 , 443, 245-255	10.3	33
418	Nanotechnology Applications for Environmental Industry. 2018 , 894-907		19
417	Recent Advances in Nanoporous Membranes for Water Purification. 2018 , 8,		91
416	Influence of l-lysine on the permeation and antifouling performance of polyamide thin film composite reverse osmosis membranes.. 2018 , 8, 25236-25247		25
415	Spray assisted layer-by-layer assembled one-bilayer polyelectrolyte reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2018 , 564, 501-507	9.6	18
414	Progress in the modification of reverse osmosis (RO) membranes for enhanced performance. 2018 , 67, 52-71		28
413	Determination of progress in acrylic acid modification on polyvinylidene fluoride membrane by infrared spectroscopy. 2018 , 1174, 122-126		7
412	Visible-light Photochromism of Phosphomolybdic Acid/ZnO Composite. 2018 , 34, 464-469		8
411	Annealing of Polyelectrolyte Multilayers for Control over Ion Permeation. 2018 , 5, 1800651		19
410	High-performance thin-film composite membranes with surface functionalization by organic phosphonic acids. <i>Journal of Membrane Science</i> , 2018 , 563, 284-297	9.6	43
409	Desalination by pervaporation. 2018 , 205-226		5
408	Nanocomposite membranes. 2018 , 285-330		10

407	Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. <i>Journal of Environmental Management</i> , 2018 , 223, 215-253	7.9	44
406	Pathways Toward Enhanced Techno-Economic Performance of Flow Battery Systems in Energy System Applications. 2019 , 16,		9
405	Optimisation of interfacial polymerization factors in thin-film composite (TFC) polyester nanofiltration (NF) membrane for separation of xylose from glucose. <i>Separation and Purification Technology</i> , 2019 , 209, 211-222	8.3	18
404	Ultra-permeable polyamide membranes harvested by covalent organic framework nanofiber scaffolds: a two-in-one strategy. 2019 , 10, 9077-9083		53
403	Antimicrobial Thin-Film Composite Membranes with Chemically Decorated Ultrasmall Silver Nanoclusters. 2019 , 7, 14848-14855		11
402	Nafion-Based Low-Hydration Polyelectrolyte Multilayer Membranes for Enhanced Water Purification. 2019 , 1, 2543-2551		17
401	Confining migration of amine monomer during interfacial polymerization for constructing thin-film composite forward osmosis membrane with low fouling propensity. 2019 , 207, 54-68		25
400	Preparation of transparent anti-pollution cellulose carbamate regenerated cellulose membrane with high separation ability. 2019 , 139, 332-341		15
399	Tailoring Polyamide Rejection Layer with Aqueous Carbonate Chemistry for Enhanced Membrane Separation: Mechanistic Insights, Chemistry-Structure-Property Relationship, and Environmental Implications. <i>Environmental Science & Technology</i> , 2019 , 53, 9764-9770	10.3	40
398	Nanocomposite membranes embedded with functionalized MoS ₂ nanosheets for enhanced interfacial compatibility and nanofiltration performance. <i>Journal of Membrane Science</i> , 2019 , 591, 117318 ⁶		54
397	Tailor-made high-performance reverse osmosis membranes by surface fixation of hydrophilic macromolecules for wastewater treatment.. 2019 , 9, 17766-17777		17
396	Self-Sealed Polyamide (PA)/Zinc Imidazole Framework (ZIF) Thin Film Nanocomposite (TFN) Nanofiltration Membranes with Nanoscale Turing Type Structures. 2019 , 6, 1901482		13
395	Porous metal-organic molecular cage: a promising candidate to highly improve the nanofiltration performance of thin film nanocomposite membranes. 2019 , 43, 1699-1709		5
394	Mass Transport through Composite Asymmetric Membranes. 2019 , 23, 151-172		
393	Simultaneously enhancing interfacial adhesion and pervaporation separation performance of PDMS/ceramic composite membrane via a facile substrate surface grafting approach. 2019 , 65, e16773		12
392	SiO ₂ -modified nanocomposite nanofiltration membranes with high flux and acid resistance. 2019 , 136, 47436		14
391	Choice of Apposite Dispersing Medium for Silica Nanoparticles Leading to Their Effective Embedment in Nanocomposite Nanofiltration Membranes. 2019 , 58, 17937-17944		14
390	Production of composite membrane from waste Kappa-Carrageenan and Tilapia (<i>Oreochromis niloticus</i>) fishbone. 2019 , 268, 04014		1

389	Characterization of non-covalent immobilized <i>Candida antarctica</i> lipase b over PS-b-P4VP as a model bio-reactive porous interface. 2019 , 183, 110418		1
388	Design of gradient nanopores in phenolics for ultrafast water permeation. 2019 , 10, 2093-2100		13
387	Ultrathin nanofiltration membrane with polydopamine-covalent organic framework interlayer for enhanced permeability and structural stability. <i>Journal of Membrane Science</i> , 2019 , 576, 131-141	9.6	136
386	Review on structural control and modification of graphene oxide-based membranes in water treatment: From separation performance to robust operation. 2019 , 27, 1348-1360		21
385	Design of robust twisted fiber bundle-reinforced cellulose triacetate hollow fiber reverse osmosis membrane with thin separation layer for seawater desalination. <i>Journal of Membrane Science</i> , 2019 , 578, 1-9	9.6	13
384	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. 2019 , 552, 418-425		16
383	Industrial biowastes treatment using membrane bioreactors (MBRs) -a scientometric study. <i>Journal of Environmental Management</i> , 2019 , 247, 462-473	7.9	26
382	From micro to nano: Polyamide thin film on microfiltration ceramic tubular membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2019 , 587, 117161	9.6	26
381	Chemistry in a spinneret [Sinusoidal-shaped composite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2019 , 585, 115-125	9.6	15
380	The effect of hydrocarbon pollution on polysulfone-based membranes in aqueous separations. <i>Separation and Purification Technology</i> , 2019 , 224, 348-355	8.3	2
379	Novel aliphatic polyamide membrane with high mono-/divalent ion selectivity, excellent Ca ²⁺ , Mg ²⁺ rejection, and improved antifouling properties. <i>Separation and Purification Technology</i> , 2019 , 224, 443-455	8.3	15
378	High performance ultrafiltration composite membranes based on nanofibrous substrate with PDA coating and TAPS-NA immobilization. 2019 , 58, 1993-2006		
377	From reverse osmosis to nanofiltration: Precise control of the pore size and charge of polyamide membranes via interfacial polymerization. <i>Desalination</i> , 2019 , 466, 16-23	10.3	35
376	Poly(piperizinamide) with copper ion composite membranes: Application for mitigation of Hexaconazole from water and combat microbial contamination. 2019 , 376, 102-111		7
375	Fabrication of high performance and durable forward osmosis membranes using mussel-inspired polydopamine-modified polyethylene supports. <i>Journal of Membrane Science</i> , 2019 , 584, 89-99	9.6	36
374	Development of microporous substrates of polyamide thin film composite membranes for pressure-driven and osmotically-driven membrane processes: A review. 2019 , 77, 25-59		51
373	Study of synergetic effect and comparison of novel sulfonated and carboxylated bulky diamine-diol and piperazine in preparation of negative charge NF membrane. <i>Separation and Purification Technology</i> , 2019 , 222, 284-296	8.3	20
372	Ultrathin Polyamide Nanofiltration Membrane Fabricated on Brush-Painted Single-Walled Carbon Nanotube Network Support for Ion Sieving. 2019 , 13, 5278-5290		145

371	Boron removal and antifouling properties of thin-film nanocomposite membrane incorporating PECVD-modified titanate nanotubes. 2019 , 94, 2772-2782		20
370	Recent trends of heavy metal removal from water/wastewater by membrane technologies. 2019 , 76, 17-38		278
369	Fluorine incorporation for enhancing solvent resistance of organic solvent nanofiltration membrane. 2019 , 369, 498-510		27
368	Reverse osmosis desalination: A state-of-the-art review. <i>Desalination</i> , 2019 , 459, 59-104	10.3	410
367	Influence of modifying interfacial polymerization compositions on the performance of composite forward osmosis hollow fiber membranes. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	2
366	Preparation of Polymer Membranes by In Situ Interfacial Polymerization. 2019 , 2019, 1-13		13
365	Process simulation and optimization of oxygen enriched combustion using thin polymeric membranes: effect of thickness and temperature dependent physical aging. 2019 , 94, 2844-2868		3
364	High-Performance TiO ₂ Nanotubes/Poly(aryl ether sulfone) Hybrid Self-Cleaning Anti-Fouling Ultrafiltration Membranes. <i>Polymers</i> , 2019 , 11,	4.5	5
363	A Novel Metal-Organic Framework (MOF)-Mediated Interfacial Polymerization for Direct Deposition of Polyamide Layer on Ceramic Substrates for Nanofiltration. 2019 , 6, 1900132		14
362	Polymer membranes for biofouling mitigation: a review. 2019 , 58, 1829-1854		5
361	Degradation of full aromatic polyamide NF membrane by sulfuric acid and hydrogen halides: Change of the surface/permeability properties. 2019 , 162, 1-11		21
360	Poly(vinylidene fluoride) hollow fiber membrane for high-efficiency separation of dyes-salts. <i>Journal of Membrane Science</i> , 2019 , 578, 43-52	9.6	32
359	Facile integration of halloysite nanotubes with bioadhesive as highly permeable interlayer in forward osmosis membranes. 2019 , 73, 276-285		23
358	A review of polymeric nanocomposite membranes for water purification. 2019 , 73, 19-46		151
357	In Situ Surface Modification of Thin-Film Composite Polyamide Membrane with Zwitterions for Enhanced Chlorine Resistance and Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12043-12052	9.5	48
356	Sustainability considerations in membrane-based technologies for industrial effluents treatment. 2019 , 368, 474-494		143
355	Recent advances in thin film composites membranes for brackish groundwater treatment with critical focus on Saskatchewan water sources. 2019 , 81, 181-194		9
354	Hollow Fiber Nanofiltration Membranes for Water Treatment. 2019 , 1-11		

353	Use of Silica Gel from Volcanic Ash as Chitosan Composite Membrane Filler. 2019 , 31, 2303-2305		
352	The application of polyethylenimine grafting reverse osmosis membrane in treating boron-containing low-level radioactive wastewaters. 2019 , 95, 1085		4
351	A review: the effect of the microporous support during interfacial polymerization on the morphology and performances of a thin film composite membrane for liquid purification.. 2019 , 9, 35417-35428		23
350	Covalent organic framework-modulated interfacial polymerization for ultrathin desalination membranes. 2019 , 7, 25641-25649		94
349	Iron oxide (FeO) nanoparticles embedded thin-film nanocomposite nanofiltration (NF) membrane for water treatment. <i>Separation and Purification Technology</i> , 2019 , 211, 98-107	8.3	45
348	Forward Osmosis for Desalination Application. 2019 , 315-337		
347	Nanocomposite membranes for water separation and purification: Fabrication, modification, and applications. <i>Separation and Purification Technology</i> , 2019 , 213, 465-499	8.3	217
346	Solvent-resistant triazine-piperazine linked porous covalent organic polymer thin-film nanofiltration membrane. <i>Separation and Purification Technology</i> , 2019 , 213, 348-358	8.3	9
345	Effect of substrate on formation and nanofiltration performance of graphene oxide membranes. <i>Journal of Membrane Science</i> , 2019 , 574, 196-204	9.6	75
344	Forward Osmosis (FO) for Removal of Heavy Metals. 2019 , 177-204		11
343	Morphology and porous structure of standalone aromatic polyamide films as used in RO membranes [An exploration with SANS, PALS, and SEM. <i>Journal of Membrane Science</i> , 2019 , 573, 167-176	9.6	8
342	Decolorization of crystal violet from aqueous solutions by a novel adsorbent chitosan/nanodiopside using response surface methodology and artificial neural network-genetic algorithm. 2019 , 124, 429-443		36
341	Membrane Materials, Structures, and Modules. 2019 , 11-19		3
340	Interfacially polymerized thin-film composite membranes: Impact of support layer pore size on active layer polymerization and seawater desalination performance. <i>Separation and Purification Technology</i> , 2019 , 212, 438-448	8.3	46
339	Polyhedral Oligomeric Silsesquioxane (POSS) Nano-Composite Separation Membranes [A Review. 2019 , 21, 1800667		28
338	Preparation of poly(2,4,6-triaminopyrimidine-TMC)/P84 composite nanofiltration membrane with enhanced chlorine resistance and solvent resistance. 2019 , 94, 2838-2843		5
337	Fabrication and characterization of thin-film composite (TFC) nanofiltration membranes incorporated with cellulose nanocrystals (CNCs) for enhanced desalination performance and dye removal. 2019 , 358, 1519-1528		107
336	Low-energy reverse osmosis membrane with high boron rejection by surface modification with a polysaccharide. 2019 , 97, 1575-1580		3

335	Thin mixed matrix and dual layer membranes containing metal-organic framework nanosheets and PolyactiveIFor CO2 capture. <i>Journal of Membrane Science</i> , 2019 , 570-571, 226-235	9.6	37
334	Antifouling Membranes for Bioelectrochemistry Applications. 2019 , 195-224		5
333	High-performance thin-film composite polyamide membranes developed with green ultrasound-assisted interfacial polymerization. <i>Journal of Membrane Science</i> , 2019 , 570-571, 112-119	9.6	66
332	ZIF-8 particle size effects on reverse osmosis performance of polyamide thin-film nanocomposite membranes: Importance of particle deposition. <i>Journal of Membrane Science</i> , 2019 , 570-571, 23-33	9.6	83
331	Effect of adding a smart potassium ion-responsive copolymer into polysulfone support membrane on the performance of thin-film composite nanofiltration membrane. 2019 , 13, 400-414		3
330	Swelling of 9 polymers commonly employed for solvent-resistant nanofiltration membranes: A comprehensive dataset. <i>Journal of Membrane Science</i> , 2019 , 569, 177-199	9.6	61
329	High-hydrophilic and salt rejecting PA-g/co-PVP RO membrane via bionic sand-fixing grass for pharmaceutical wastewater treatment. 2019 , 357, 269-279		25
328	A novel interfacial polymerization approach towards synthesis of graphene oxide-incorporated thin film nanocomposite membrane with improved surface properties. 2019 , 12, 75-87		33
327	Synthetic polymer materials for forward osmosis (FO) membranes and FO applications: a review. 2019 , 35, 191-209		11
326	Fabrication of TFC nanofiltration membranes via co-solvent assisted interfacial polymerization for lactose recovery. 2019 , 12, 5325-5338		13
325	Atom-Thick Membranes for Water Purification and Blue Energy Harvesting. 2020 , 30, 1902394		25
324	Gradient nanoporous phenolics as substrates for high-flux nanofiltration membranes by layer-by-layer assembly of polyelectrolytes. 2020 , 28, 114-121		5
323	Layer-by-layer assembly of polyethyleneimine/graphene oxide membranes for desalination of high-salinity water via pervaporation. <i>Separation and Purification Technology</i> , 2020 , 234, 116077	8.3	55
322	Tailoring the internal void structure of polyamide films to achieve highly permeable reverse osmosis membranes for water desalination. <i>Journal of Membrane Science</i> , 2020 , 595, 117518	9.6	28
321	Breakthroughs in the fabrication of electrospun-nanofiber-supported thin film composite/nanocomposite membranes for the forward osmosis process: A review. 2020 , 50, 1727-1795		16
320	Manufacturing Nanoporous Materials for Energy-Efficient Separations. 2020 , 33-81		7
319	Manipulating the separation performance of nanofiltration membranes by coating thickness of organic phase during interfacial polymerization. 2020 , 137, 48284		1
318	Performance improvement for thin-film composite nanofiltration membranes prepared on PSf/PSf-g-PEG blended substrates. <i>Separation and Purification Technology</i> , 2020 , 230, 115855	8.3	22

3 ¹⁷	Removal of trace organic contaminants by melamine-tuned highly cross-linked polyamide TFC membranes. <i>Chemosphere</i> , 2020 , 238, 124691	8.4	15
3 ¹⁶	Relating the performance of sulfonated thin-film composite nanofiltration membranes to structural properties of macrovoid-free polyethersulfone/sulfonated polysulfone/O-MWCNT supports. <i>Desalination</i> , 2020 , 474, 114176	10.3	18
3 ¹⁵	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. 2020 , 11, 13		67
3 ¹⁴	Thin film nanocomposite nanofiltration membrane incorporated with cellulose nanocrystals with superior anti-organic fouling affinity. 2020 , 6, 715-723		11
3 ¹³	Reverse osmosis membrane fabrication and modification technologies and future trends: A review. 2020 , 276, 102100		59
3 ¹²	Optimization of water flux and salt rejection properties of polyamide thin film composite membranes. 2020 , 137, 48858		7
3 ¹¹	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2916-2925	9.5	25
3 ¹⁰	The application feasibility of graphene oxide membranes for pressure-driven desalination in a dead-end flow system. <i>Desalination</i> , 2020 , 477, 114271	10.3	11
3 ⁰⁹	Effects of surface charge of thin-film composite membrane on copper (II) ion removal by using nanofiltration and forward osmosis process. 2020 , 33, 101032		15
3 ⁰⁸	High flux thin-film nanocomposites with embedded boron nitride nanotubes for nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 597, 117749	9.6	24
3 ⁰⁷	Preparation of internally pressurized polyamide thin-film composite hollow fiber nanofiltration membrane with high ions selectivity by a facile coating method. 2020 , 139, 105456		5
3 ⁰⁶	Amide A band is a fingerprint for water dynamics in reverse osmosis polyamide membranes. <i>Journal of Membrane Science</i> , 2020 , 596, 117705	9.6	10
3 ⁰⁵	Thermally stable core-shell star-shaped block copolymers for antifouling enhancement of water purification membranes. <i>Journal of Membrane Science</i> , 2020 , 598, 117686	9.6	13
3 ⁰⁴	Polyamide Membranes with Net-Like Nanostructures Induced by Different Charged MOFs for Elevated Nanofiltration. 2020 , 2, 585-593		19
3 ⁰³	Thermally stable thin film composite polymeric membranes for water treatment: A review. 2020 , 250, 119447		40
3 ⁰²	Design and fabrication of highly selective and permeable polymer membranes. 2020 , 128, 131102		3
3 ⁰¹	Novel Maleic Acid, Crosslinked, Nanofibrous Chitosan/Poly (Vinylpyrrolidone) Membranes for Reverse Osmosis Desalination. 2020 , 21,		4
3 ⁰⁰	X-ray Scattering Studies of Reverse Osmosis Materials. 2020 , 33,		1

299	Incorporation of lysine-modified UiO-66 for the construction of thin-film nanocomposite nanofiltration membrane with enhanced water flux and salt selectivity. <i>Desalination</i> , 2020 , 493, 114661	10.3	21
298	Comprehensive studies of membrane rinsing on the physicochemical properties and separation performance of TFC RO membranes. <i>Desalination</i> , 2020 , 491, 114345	10.3	4
297	Connecting the Ion Separation Factor to the Sorption and Diffusion Selectivity of Ion Exchange Membranes. 2020 , 59, 14189-14206		11
296	Nanofiltration for Arsenic Removal: Challenges, Recent Developments, and Perspectives. 2020 , 10,		34
295	Incorporation of Core-Shell-Structured Zwitterionic Carbon Dots in Thin-Film Nanocomposite Membranes for Simultaneously Improved Perm-Selectivity and Antifouling Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53215-53229	9.5	13
294	Incorporation of Cellulose Nanocrystals (CNC) derived from sawdust into polyamide thin-film composite membranes for enhanced water recovery. 2020 , 59, 4201-4210		7
293	Rejection of antimony in dyeing and printing wastewater by forward osmosis. 2020 , 745, 141015		29
292	Fabrication of thin film nanocomposite nanofiltration membrane incorporated with cellulose nanocrystals for removal of Cu(II) and Pb(II). 2020 , 228, 115998		33
291	Effects of polyethylene glycol and glutaraldehyde cross-linker on TFC-FO membrane performance. 2020 , 20, 101059		5
290	Enhanced removal of crystal violet in water using a facile-fabricated and environmental-friendly laccase immobilized composite membrane. 2020 , 98, 122-130		16
289	Ultrathin poly (vinyl alcohol)/MXene nanofilm composite membrane with facile intrusion-free construction for pervaporative separations. <i>Journal of Membrane Science</i> , 2020 , 614, 118490	9.6	11
288	Antifouling thin-film composite membranes with multi-defense properties by controllably constructing amphiphilic diblock copolymer brush layer. <i>Journal of Membrane Science</i> , 2020 , 614, 118515	9.6	14
287	A unique method for dopamine-cross-linked graphene nanoplatelets within polyethersulfone membranes (GNP-pDA/PES) for enhanced mechanochemical resistance during NF and RO desalination. 2020 , 136, 109889		7
286	AEL Zeolite Nanosheet-Polyamide Nanocomposite Membranes on γ -Alumina Hollow Fibers with Enhanced Pervaporation Properties. 2020 , 59, 14789-14796		2
285	Fabrication and modification of forward osmosis membranes by using graphene oxide for dye rejection and sludge concentration. <i>Chemical Engineering Research and Design</i> , 2020 , 144, 225-235	5.5	11
284	Vacuum-assisted diamine monomer distribution for synthesizing polyamide composite membranes by interfacial polymerization. <i>Journal of Membrane Science</i> , 2020 , 616, 118557	9.6	18
283	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
282	Nanoporous metal-polymer composite membranes for organics separations and catalysis. 2020 , 35, 2629-2642		

281	In-situ thermal crosslinked PA66/β-cyclodextrin/PA66 nanofibrous membranes with high mechanical strength for removal of heavy metal ions by flow through adsorption. 2020 , 91, 106854		3
280	Influence of Multidimensional Graphene Oxide (GO) Sheets on Anti-Biofouling and Desalination Performance of Thin-Film Composite Membranes: Effects of GO Lateral Sizes and Oxidation Degree. <i>Polymers</i> , 2020 , 12,	4.5	3
279	Search for optimal monomers for fabricating active layers in thin-film composite osmosis membranes by conceptual density functional theory. 2020 , 26, 334		3
278	Engineered Zero-Dimensional Fullerene/Carbon Dots-Polymer Based Nanocomposite Membranes for Wastewater Treatment. 2020 , 25,		9
277	Nanofluidic energy harvesting through a biological 1D protein-embedded nanofilm membrane by interfacial polymerization. 2020 , 74, 104906		8
276	Enhancing the Chlorine Stability and Antifouling Properties of Thin-Film Composite Reverse Osmosis Membranes via Surface Grafting L-Arginine-Functionalized Polyvinyl Alcohol. 2020 , 59, 10882-10893		8
275	Graphene oxide interlayered thin-film nanocomposite hollow fiber nanofiltration membranes with enhanced aqueous electrolyte separation performance. <i>Separation and Purification Technology</i> , 2020 , 248, 117153	8.3	18
274	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. <i>Journal of Membrane Science</i> , 2020 , 611, 118205	9.6	48
273	A de novo sacrificial-MOF strategy to construct enhanced-flux nanofiltration membranes for efficient dye removal. 2020 , 225, 115845		63
272	Electrospun Nanofibrous Membranes for Water Treatment. 2020 ,		4
271	Synthetic polymer-based membranes for desalination. 2020 , 23-38		
270	Synthetic polymeric membranes for gas and vapor separations. 2020 , 217-272		1
269	Tailored pore gradient in phenolic membranes for adjustable permselectivity by leveraging different poloxamers. <i>Separation and Purification Technology</i> , 2020 , 242, 116818	8.3	2
268	Current status and challenges of fabricating thin film composite forward osmosis membrane: A comprehensive roadmap. <i>Desalination</i> , 2020 , 491, 114557	10.3	33
267	Vapor-deposited functional polymer thin films in biological applications. 2020 , 8, 6588-6609		21
266	Polymer nanocomposite membranes for pervaporation desalination process. 2020 , 175-199		1
265	Performance evaluation of the different nano-enhanced polysulfone membranes via membrane distillation for produced water desalination in Sert Basin-Libya. 2020 , 13, 5118-5136		6
264	Gas transport properties of PDMS-coated reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020 , 604, 118009	9.6	6

263	Preparation of positively charged thin-film nanocomposite membranes based on the reaction between hydrolyzed polyacrylonitrile containing carbon nanomaterials and HPEI for water treatment application. <i>Separation and Purification Technology</i> , 2020 , 242, 116826	8.3	26
262	A critical review of recent advances in hemodialysis membranes hemocompatibility and guidelines for future development. 2020 , 248, 122911		32
261	Design of nanofiltration (NF) hollow fiber membranes made from functionalized bore fluids containing polyethyleneimine (PEI) for heavy metal removal. <i>Journal of Membrane Science</i> , 2020 , 603, 118022	9.6	31
260	A Facile Approach for Elimination of Electroneutral/Anionic Organic Dyes from Water Using a Developed Carbon-Based Polymer Nanocomposite Membrane. 2020 , 231, 1		8
259	Increasing the success rate of interfacial polymerization on hollow fibers by the single-step addition of an intermediate layer. <i>Desalination</i> , 2020 , 491, 114581	10.3	6
258	Improving the water permeability and antifouling property of the nanofiltration membrane grafted with hyperbranched polyglycerol. <i>Journal of Membrane Science</i> , 2020 , 612, 118417	9.6	12
257	Fabrication of high-performance reverse osmosis membranes via dual-layer slot coating with tailoring interfacial adhesion. <i>Journal of Membrane Science</i> , 2020 , 614, 118449	9.6	14
256	Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. <i>Membranes</i> , 2020 , 10,	3.8	7
255	Novel Polysulfone/Carbon Nanotube-Polyamide Thin Film Nanocomposite Membranes with Improved Water Flux for Forward Osmosis Desalination. 2020 , 5, 14427-14436		7
254	Precise assembly of a zeolite imidazolate framework on polypropylene support for the fabrication of thin film nanocomposite reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2020 , 612, 118412 ^{9.6}	9.6	21
253	Anti-biofouling effect of a thin film nanocomposite membrane with a functionalized-carbon-nanotube-blended polymeric support for the pressure-retarded osmosis process.. 2020 , 10, 5697-5703		5
252	Overview of membrane technology. 2020 , 1-28		13
251	Ultrathin Membranes: A New Opportunity for Ultrafast and Efficient Separation. 2020 , 5, 1901069		17
250	A Thin Film Nanocomposite Reverse Osmosis Membrane Incorporated with S-Beta Zeolite Nanoparticles for Water Desalination. 2020 , 5, 1972-1975		3
249	Thin-film nanocomposite nanofiltration membrane with an ultrathin polyamide/UIO-66-NH ₂ active layer for high-performance desalination. <i>Journal of Membrane Science</i> , 2020 , 600, 117874	9.6	52
248	Immobilisation of synthesised TiO ₂ nanosheets onto the surface of the mesh and its modification effect on the wettability behaviour. 2020 , 1-11		
247	Polyphenol engineered membranes with dually charged sandwich structure for low-pressure molecular separation. <i>Journal of Membrane Science</i> , 2020 , 601, 117885	9.6	14
246	Morphological, chemical and electrical characterization of a family of commercial nanofiltration polyvinyl alcohol coated polypiperazineamide membranes. 2020 , 126, 109544		7

245	Membranes based on non-synthetic (natural) polymers for wastewater treatment. 2020 , 84, 106381		39
244	Hyperbranched polyethyleneimine/multi-walled carbon nanotubes polyethersulfone membrane incorporated with Fe-Cu bimetallic nanoparticles for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103962	6.8	16
243	Polyamide nanofiltration membrane with highly uniform sub-nanometre pores for sub-1 μ m precision separation. 2020 , 11, 2015		153
242	The effect of temperature on water desalination through two-dimensional nanopores. 2020 , 152, 164701		1
241	Development of advanced nanocomposite membranes by carbon-based nanomaterials (CNTs and GO). 2020 , 145-162		0
240	Application of functional single-element and double-element oxide nanoparticles for the development of nanocomposite membranes. 2020 , 113-144		1
239	Metal ferrite incorporated polysulfone thin-film nanocomposite membranes for wastewater treatment. 2021 , 28, 11915-11927		6
238	Carbon Nanopore-Tailored Reverse Osmotic Water Desalination. <i>ACS ES&T Water</i> , 2021 , 1, 34-47		9
237	Polyamide-based membranes consisting of nanocomposite interlayers for high performance nanofiltration. 2021 , 138, 49940		4
236	Superamphiphilic zwitterionic block copolymer surfactant-assisted fabrication of polyamide thin-film composite membrane with highly enhanced desalination performance. <i>Journal of Membrane Science</i> , 2021 , 618, 118677	9.6	9
235	Stitching nanosheets of covalent organic frameworks to build aligned nanopores in nanofiltration membranes for precise ion separations. <i>Journal of Membrane Science</i> , 2021 , 618, 118754	9.6	20
234	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
233	High-performance and durable pressure retarded osmosis membranes fabricated using hydrophilized polyethylene separators. <i>Journal of Membrane Science</i> , 2021 , 619, 118796	9.6	18
232	Fabrication of antifouling thin-film composite nanofiltration membrane via surface grafting of polyethyleneimine followed by zwitterionic modification. <i>Journal of Membrane Science</i> , 2021 , 619, 118564	9.6	18
231	Plasticizer-assisted interfacial polymerization for fabricating advanced reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021 , 619, 118788	9.6	6
230	Fouling of nanofiltration membranes based on polyelectrolyte multilayers: The effect of a zwitterionic final layer. <i>Journal of Membrane Science</i> , 2021 , 620, 118793	9.6	9
229	Improved pervaporation efficiency of thin-film composite polyamide membranes fabricated through acetone-assisted interfacial polymerization. <i>Chemical Engineering Research and Design</i> , 2021 , 165, 375-385	5.5	3
228	Polypyrrole as the interlayer for thin-film poly(piperazine-amide) composite membranes: Separation behavior of salts and pesticides. 2021 , 138, 50356		2

227	High-flux TFN nanofiltration membranes incorporated with Camphor-ALO nanoparticles for brackish water desalination. <i>Chemosphere</i> , 2021 , 265, 128999	8.4	24
226	PVDF-CaAlg nanofiltration membranes with dual thin-film-composite (TFC) structure and high permeation flux for dye removal. <i>Separation and Purification Technology</i> , 2021 , 255, 117739	8.3	16
225	Developing helical carbon functionalized chitosan-based loose nanofiltration membranes for selective separation and wastewater treatment. 2021 , 417, 127911		5
224	Different roles of aqueous and organic additives in the morphology and performance of polyamide thin-film composite membranes. <i>Chemical Engineering Research and Design</i> , 2021 , 165, 1-11	5.5	4
223	Fabrication of Polyamide Thin Layer Membranes for Water Treatment. 2021 , 1-30		
222	High Flux and Antifouling Thin-Film Nanocomposite Forward Osmosis Membrane with Ingrained Silica Nanoparticles. 2021 , 1, 467-477		5
221	Active layer modification of commercial nanofiltration membrane using CuBTC/PVA matrix for improved surface and separation characteristics. 2021 , 138, app50508		2
220	Membrane Technology for Desalination and Wastewater Recycling. 2021 , 137-156		1
219	Nanomembranes for ultrapurification and water treatment. 2021 , 657-691		0
218	Fabrication of Polyamide Thin Layer Membranes for Water Treatment. 2021 , 3551-3580		
217	Effect of coating steps on uniformity and gas permeability of mesoporous layers in ceramic membranes. 2021 ,		
216	Preparation and characterisation of pineapple peel waste as nanoadsorbent incorporated into Pebax 1657 nanocomposite membrane for CO ₂ /CH ₄ separation. 2021 , 41, 88-95		1
215	Breaking through permeability-selectivity trade-off of thin-film composite membranes assisted with crown ethers. 2021 , 67, e17173		4
214	3D printed MOF-based mixed matrix thin-film composite membranes.. 2021 , 11, 25658-25663		2
213	Membrane Fouling in Desalination. 2021 , 39-52		0
212	Forward Osmosis in Desalination and Wastewater Treatment. 2021 , 157-175		
211	Composite hollow fibers for gas separation. 2021 , 385-405		
210	Polyamide Nanofiltration Membranes from Emulsion-Mediated Interfacial Polymerization. 2021 , 1, 533-542		5

209	Optimal Performance of Thin-Film Composite Nanofiltration-Like Forward Osmosis Membranes Set Off by Changing the Chemical Structure of Diamine Reacted with Trimesoyl Chloride through Interfacial Polymerization. <i>Polymers</i> , 2021 , 13,	4.5	1
208	The separation of radionuclides and silicon from boron-containing radioactive wastewater with modified reverse osmosis membranes. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 639-646	5.5	1
207	Antibiofouling Thin-Film Nanocomposite Membranes for Sustainable Water Purification. 2021 , 5, 2000279		1
206	Surface Modification of Reverse Osmosis Desalination Membranes with Zwitterionic Silane Compounds for Enhanced Organic Fouling Resistance. 2021 , 60, 5133-5144		2
205	Rapid Fabrication by Lyotropic Self-Assembly of Thin Nanofiltration Membranes with Uniform 1 Nanometer Pores. 2021 , 15, 8192-8203		13
204	Green Approaches for Sustainable Development of Liquid Separation Membrane. <i>Membranes</i> , 2021 , 11,	3.8	4
203	Challenges in membrane-based liquid phase separations. 2021 , 2, 3-13		4
202	Arsenic removal from water by nanofiltration membrane: potentials and limitations. 2021 , 16, 291-319		5
201	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. 2021 , 15, 5838-5860	26	
200	2D Metal-Organic Framework-Based Thin-Film Nanocomposite Membranes for Reverse Osmosis and Organic Solvent Nanofiltration. 2021 , 14, 2452-2460		8
199	Thin-film composite membranes with mineralized nanofiber supports for highly efficient nanofiltration. 2021 , 24, 100695		6
198	Self-Organized Implanting of Micro/Nanofiltration Membranes in Advanced Flow Reactors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19430-19442	9.5	
197	A review on the synthesis of fully aromatic polyamide reverse osmosis membranes. <i>Desalination</i> , 2021 , 502, 114939	10.3	17
196	A PA/O-NGO/PPS sandwich composite membrane prepared via multi-step interfacial polymerization for desalination. 2021 , 56, 11736-11748		0
195	Ionic Liquid Blend Thin Film Composite Membrane for Carbon Dioxide Separation. 2021 , 1142, 012013		0
194	A microporous polymer TFC membrane with 2-D MOF nanosheets gutter layer for efficient H ₂ separation. <i>Separation and Purification Technology</i> , 2021 , 261, 118283	8.3	8
193	In-situ synthesis of PA/PVDF composite hollow fiber membranes with an outer selective structure for efficient fractionation of low-molecular-weight dyes-salts. <i>Desalination</i> , 2021 , 503, 114957	10.3	9
192	In situ amphiphilic modification of thin film composite membrane for application in aqueous and organic solvents. <i>Journal of Membrane Science</i> , 2021 , 626, 119155	9.6	8

191	Membrane Separation Technologies for Selenium. 2021 , 297-318		1
190	Effect of Additives during Interfacial Polymerization Reaction for Fabrication of Organic Solvent Nanofiltration (OSN) Membranes. <i>Polymers</i> , 2021 , 13,	4.5	1
189	Separation, anti-fouling, and chlorine resistance of the polyamide reverse osmosis membrane: From mechanisms to mitigation strategies. 2021 , 195, 116976		25
188	Polyamide nanofilms with linearly-tunable thickness for high performance nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 627, 119142	9.6	27
187	Insights into changes of anthocyanins-rich blueberry extracts concentrated by different nanofiltrations and their storage stability. 2021 , 144, 111196		0
186	Novel Polyelectrolytes Obtained by Direct Alkylation and Ion Replacement of a New Aromatic Polyamide Copolymer Bearing Pyridinyl Pendant Groups. <i>Polymers</i> , 2021 , 13,	4.5	2
185	Fabrication of carbon nanotubes-modified poly(ethyleneimine)/sodium lignosulfonate membranes for improved selectivity performance and antifouling capability in forward osmosis process. 2021 , 56, 15499		2
184	Progress in osmotic membrane bioreactors research: Contaminant removal, microbial community and bioenergy production in wastewater. 2021 , 330, 124998		12
183	Fouling of polyelectrolyte multilayer based nanofiltration membranes during produced water treatment: The role of surfactant size and chemistry. 2021 , 594, 9-19		8
182	Selective membranes in water and wastewater treatment: Role of advanced materials. 2021 , 50, 516-516		15
181	Thin-film composite nanofiltration hollow fiber membranes toward textile industry effluent treatment and environmental remediation applications: review. 1		4
180	Nanofiltration Membrane Materials and Preparation. 2021 , 35-94		
179	Green Techniques for Rapid Fabrication of Unprecedentedly High-Performance PEO Membranes for CO ₂ Capture. 2021 , 9, 10167-10175		8
178	Fabrication and evaluation of nanofiltration membrane coated with amino-functionalized graphene oxide for highly efficient heavy metal removal. 1		2
177	Improvement in performance of g-C ₃ N ₄ nanosheets blended PES ultrafiltration membranes including biological properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 623, 126571	5.1	1
176	Finely tuned polyamide structure with green plasticizers to construct ultrafast water channels for effective desalination. 2021 , 784, 147089		3
175	Polyamide Nanofiltration Membranes from Surfactant-Assembly Regulated Interfacial Polymerization: The Effect of Alkyl Chain. 2100222		2
174	Ion conductive membranes for flow batteries: Design and ions transport mechanism. <i>Journal of Membrane Science</i> , 2021 , 632, 119355	9.6	6

173	Two-dimensional graphene oxide based membranes for ionic and molecular separation: Current status and challenges. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105605	6.8	16
172	Recent advances of thin film nanocomposite membranes: Effects of shape/structure of nanomaterials and interfacial polymerization methods. <i>Chemical Engineering Research and Design</i> , 2021 , 172, 135-158	5.5	8
171	Metal-organic polyhedron membranes for molecular separation. <i>Journal of Membrane Science</i> , 2021 , 632, 119354	9.6	9
170	Application of graphitic carbon nitrides in developing polymeric membranes: A review. <i>Chemical Engineering Research and Design</i> , 2021 , 173, 234-252	5.5	6
169	Two-dimensional fractal nanocrystals templating for substantial performance enhancement of polyamide nanofiltration membrane. 2021 , 118,		9
168	A novel in-situ micro-aeration functional membrane with excellent decoloration efficiency and antifouling performance. <i>Journal of Membrane Science</i> , 2021 , 119925	9.6	20
167	Naturally Extracted Hydrophobic Solvent and Self-Assembly in Interfacial Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44824-44832	9.5	1
166	Polyamide nanofiltration membrane with high mono/divalent salt selectivity via pre-diffusion interfacial polymerization. <i>Journal of Membrane Science</i> , 2021 , 636, 119478	9.6	4
165	Hydrophobic poly(vinylidene fluoride) / siloxene nanofiltration membranes. <i>Journal of Membrane Science</i> , 2021 , 635, 119447	9.6	1
164	Fabrication of thin-film composite membranes for organic solvent nanofiltration by mixed monomeric polymerization on ionic liquid/water interfaces. <i>Journal of Membrane Science</i> , 2021 , 636, 119551	9.6	6
163	Improvement of thin-film nanocomposite (TFN) membrane performance by CAU-1 with low charge and small size. <i>Separation and Purification Technology</i> , 2021 , 274, 118467	8.3	3
162	Regulating the interfacial polymerization process toward high-performance polyamide thin-film composite reverse osmosis and nanofiltration membranes: A review. <i>Journal of Membrane Science</i> , 2021 , 640, 119765	9.6	13
161	High performance polyamine-based acid-resistant nanofiltration membranes catalyzed with 1,4-benzenecarboxylic acid in interfacial cross-linking polymerization process. <i>Journal of Membrane Science</i> , 2021 , 640, 119833	9.6	5
160	NH ₂ -MIL-125@PAA composite membrane for separation of oil/water emulsions and dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127542	5.1	5
159	Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. <i>Journal of Membrane Science</i> , 2021 , 640, 119801	9.6	4
158	Permeability enhancement of chemically modified and grafted polyamide layer of thin-film composite membranes for biogas upgrading. <i>Journal of Membrane Science</i> , 2022 , 641, 119890	9.6	0
157	The role of support layer properties on the fabrication and performance of thin-film composite membranes: The significance of selective layer-support layer connectivity. <i>Separation and Purification Technology</i> , 2022 , 278, 119451	8.3	4
156	Principles of nanofiltration membrane processes. 2021 , 53-95		1

155	Wastewater: novel treatment technologies and source for epidemiological studies. 2021 , 293-337		
154	Recent progress and prospects of polymeric hollow fiber membranes for gas application, water vapor and particulate matters removal.		7
153	Nanoscale Thickness Control of Nanoporous Films Derived from Directionally Photopolymerized Mesophases. 2021 , 8, 2001977		4
152	Thin-film composite nanofiltration membranes with high flux and dye rejection fabricated from disulfonated diamine monomer. <i>Journal of Membrane Science</i> , 2020 , 608, 118172	9.6	12
151	Functionalized graphene-based polyamide thin film nanocomposite membranes for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2020 , 247, 116995	8.3	22
150	Polymeric Membranes. 2015 , 3-44		7
149	Preparation of novel NF membrane via interfacial cross-linking polymerization. 2015 , 6, 173-187		5
148	Optimized Synthesis Conditions of Polyethersulfone Support Layer for Enhanced Water Flux for Thin Film Composite Membrane. 2014 , 19, 339-344		10
147	A review of zeolite materials used in membranes for water purification: History, applications, challenges and future trends.		4
146	Simultaneous separation and degradation of methylene blue by a thin film nanocomposite membrane containing TiO ₂ /MWCNTs nanophotocatalyst. 2021 , 1-16		0
145	Encyclopedia of Membranes. 2014 , 1-2		
144	Encyclopedia of Membranes. 2014 , 1-3		
143	Encyclopedia of Membranes. 2014 , 1-3		
142	Encyclopedia of Membranes. 2014 , 1-3		
141	Encyclopedia of Membranes. 2015 , 1-3		0
140	Encyclopedia of Membranes. 2016 , 1817-1819		
139	Spin Coating Interfacial Polymerization (IP) Techniques. 2016 , 1810-1812		
138	Chapter 4 Technical Challenges and Approaches in Nanofiltration Membrane Fabrication. 2016 , 79-94		

137	Chapter 1 Introduction. 2016 , 1-14		
136	Chapter 5 Characterization of Nanofiltration Membrane. 2016 , 95-138		
135	Specialty Application of Functional Biopolymers. 2019 , 509-556		
134	Blend polyethersulfone/zirconium oxychloride octahydrate membranes crosslinked by polyvinyl alcohol layer for high saline water desalination. 2020 , 40, 519-527		0
133	Surface Design of Liquid Separation Membrane through Graft Polymerization: A State of the Art Review. <i>Membranes</i> , 2021 , 11,	3.8	2
132	Development of Thin-Film Composite Membranes for Nanofiltration at Extreme pH. 2021 , 3, 5912-5919		1
131	Towards a High-Flux Separation Layer from Hexagonal Lyotropic Liquid Crystals for Thin-Film Composite Membranes. <i>Membranes</i> , 2021 , 11,	3.8	
130	Forward Osmosis for Sustainable Industrial Growth. 2021 , 1-12		
129	Dye Separation and Antibacterial Activities of Polyaniline Thin Film-Coated Poly(phenyl sulfone) Membranes. <i>Membranes</i> , 2020 , 11,	3.8	2
128	Omnifarious performance promotion of the TFC NF membrane prepared with hyperbranched polyester intervened interfacial polymerization. <i>Journal of Membrane Science</i> , 2022 , 642, 119984	9.6	4
127	A Review on the Nanofiltration Process for Treating Wastewaters from the Petroleum Industry. 2021 , 8, 206		3
126	İnce Bos luklu Nanofiltrasyon (NF) Membran İetimi ve Performans DeĐrlendirmesi.		
125	Integrated pressure-driven membrane separation processes for the production of agricultural irrigation water from spent geothermal water. <i>Desalination</i> , 2022 , 523, 115428	10.3	2
124	How alginate monomers contribute to organic fouling on polyamide membrane surfaces?. <i>Journal of Membrane Science</i> , 2022 , 643, 120078	9.6	0
123	Effective Parameters on Fabrication and Modification of Braid Hollow Fiber Membranes: A Review. <i>Membranes</i> , 2021 , 11,	3.8	2
122	Comparative Degradation Kinetics Study of Polyamide Thin Films in Aqueous Solutions of Chlorine and Peracetic Acid Using Quartz Crystal Microbalance. 2021 , 37, 14214-14227		0
121	Nanofiltration for drinking water treatment: a review. 2021 , 1-18		8
120	Impacts of sodium bicarbonate and co-amine monomers on properties of thin-film composite membrane for water treatment. 1		

119	Second interfacial polymerization decorating defects of TFC NF membrane formed by 1D nanochannels for improving separation performance. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 10, 106896	6.8	0
118	A critical review of prevention, treatment, reuse, and resource recovery from acid mine drainage. 2021 , 329, 129666		7
117	Recent advances of loose nanofiltration membranes for dye/salt separation. <i>Separation and Purification Technology</i> , 2021 , 285, 120228	8.3	7
116	Progress in Functionalized Polymeric Membranes for Application in Waste Water Treatment. 2022 , 205-226		1
115	Enhancing performances of polyamide thin film composite membranes via co-solvent assisted interfacial polymerization. <i>Desalination</i> , 2022 , 524, 115481	10.3	0
114	Perfluorooctanoyl chloride engineering toward high-flux antifouling polyamide nanofilms for desalination. <i>Journal of Membrane Science</i> , 2022 , 644, 120166	9.6	1
113	Ultrathin cyclodextrin nanofilm composite membranes for efficient separation of xylene isomers. <i>Journal of Membrane Science</i> , 2022 , 644, 120165	9.6	5
112	Concentration polarization control in stand-alone and hybrid forward osmosis systems: Recent technological advancements and future directions. <i>Chemical Engineering Research and Design</i> , 2022 , 178, 199-223	5.5	0
111	Thin-film composite nanofiltration membrane with unprecedented stability in strong acid for highly selective dye/NaCl separation. <i>Journal of Membrane Science</i> , 2022 , 645, 120189	9.6	2
110	Effects of crossflow filtration cell configuration on membrane separation performance and fouling behaviour. <i>Desalination</i> , 2022 , 525, 115505	10.3	0
109	Novel Poly(piperazinamide)/poly(m-phenylene isophthalamide) composite nanofiltration membrane with polydopamine coated silica as an interlayer for the splendid performance. <i>Separation and Purification Technology</i> , 2022 , 285, 120390	8.3	2
108	MoS ₂ @PDA Thin-Film Nanocomposite Nanofiltration Membrane for Simultaneously Improved Permeability and Selectivity. <i>SSRN Electronic Journal</i> ,		1
107	Rejection Capacity of Nanofiltration Membranes for Nickel, Copper, Silver and Palladium at Various Oxidation States. <i>Membranes</i> , 2021 , 11, 653	3.8	1
106	Organic solvent mixture separation using fluorine-incorporated thin film composite reverse osmosis membrane.		2
105	Surface and Interface Engineering for Advanced Nanofiltration Membranes. 2022 , 40, 124-137		1
104	Fouling Prevention in Polymeric Membranes by Radiation Induced Graft Copolymerization.. <i>Polymers</i> , 2022 , 14,	4.5	3
103	Influence of surface activation on the microporosity of PE-CVD and PE-ALD SiO _x thin films on PDMS.		0
102	Preparation and Applications of Nanocomposite Membranes for Water/Wastewater Treatment.		

101	Fabrication of electro spun nylon6.12/chitosan @PES nanofibrous UF membrane towards dyes rejection from synthetic wastewater. 1		0
100	Review of Thin Film Nanocomposite Membranes and Their Applications in Desalination.. 2022 , 10, 781372		2
99	A comprehensive review of electrospray technique for membrane development: Current status, challenges, and opportunities. <i>Journal of Membrane Science</i> , 2022 , 646, 120248	9.6	1
98	Ultrapерmeable polyamide nanofiltration membrane formed on a self-constructed cellulose nanofibers interlayer. <i>Chemical Engineering Research and Design</i> , 2022 , 179, 249-256	5.5	0
97	Tailor-made microstructures lead to high-performance robust PEO membrane for CO2 capture via green fabrication technique. 2022 ,		1
96	A method to quantify composition, purity, and cross-link density of the active polyamide layer in reverse osmosis composite membranes using ¹³ C cross polarization magic angle spinning nuclear magnetic resonance spectroscopy. <i>Journal of Membrane Science</i> , 2022 , 648, 120346	9.6	1
95	Solvent-Resistant Thin-Film Composite Membranes from Biomass-Derived Building Blocks: Chitosan and 2,5-Furandicarboxaldehyde. 2022 , 10, 998-1007		3
94	High Flux and Thermal-Responsive Nano-Filtration Membranes from Structurally Controlled Zwitterionic Nanocapsules. <i>SSRN Electronic Journal</i> ,		1
93	Accelerated Spraying-Assisted Layer by Layer Assembly of Polyethyleneimine/Titania Nanosheet on Thin Film Composite Membrane for Reverse Osmosis Desalination. <i>SSRN Electronic Journal</i> ,		1
92	A 15-year review of novel monomers for thin-film composite membrane fabrication for water applications. 2022 , 97-129		
91	Nanofiltration membrane technologies. 2022 , 121-157		
90	Polymer-based reverse osmosis membranes. 2022 , 311-333		
89	The Effect of Zeolitic Imidazole Framework-8@Graphene Oxide on the Performance of Polymeric Membranes Used for Wasterwater Treatment. <i>Springer Series in Materials Science</i> , 2022 , 225-252	0.9	
88	Design of nanofibre interlayer supported forward osmosis composite membranes and its evaluation in fouling study with cleaning. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 1	5.8	0
87	A high stability GO nanofiltration membrane preparation by co-deposition and crosslinking polydopamine for rejecting dyes.. <i>Water Science and Technology</i> , 2022 , 85, 1783-1799	2.2	1
86	Performance of TFN nanofiltration membranes through embedding internally modified titanate nanotubes. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	1
85	High-Performance and Stable Two-Dimensional MXene-Polyethyleneimine Composite Lamellar Membranes for Molecular Separation.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
84	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> ,	11	4

83	Ultrathin Membranes for Separations: A New Era Driven by Advanced Nanotechnology.. <i>Advanced Materials</i> , 2022 , e2108457	24	1
82	Chemically stable NH ₂ -MIL-125(Ti)/Sep/PDA composite membranes with high-efficiency for oil/water emulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 128899	5.1	2
81	Accelerated spraying-assisted layer by layer assembly of polyethyleneimine/titania nanosheet on thin film composite membrane for reverse osmosis desalination. <i>Desalination</i> , 2022 , 529, 115645	10.3	2
80	Functionalized polymeric smart membrane for remediation of emerging environmental contaminants from industrial sources: Synthesis, characterization and potential applications. <i>Chemical Engineering Research and Design</i> , 2022 , 161, 684-702	5.5	0
79	Cost-effective polymer-based membranes for drinking water purification. <i>Giant</i> , 2022 , 10, 100099	5.6	0
78	Application of reverse osmosis plants for drinking water supply in the Rostov region and study their membrane elements. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 937, 032023	0.3	
77	Capillary-Assisted Fabrication of Thin-Film Nanocomposite Membranes for Improved Solute-Solute Separation.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
76	Magnetite nanoparticles-incorporated composite thin-film nanofiltration membranes based on cellulose nitrate substrate. <i>Chemical Papers</i> ,	1.9	
75	MoS ₂ @PDA thin-film nanocomposite nanofiltration membrane for simultaneously improved permeability and selectivity. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107697	6.8	0
74	The Intrinsic Parameters of the Polyamide Nanofilm in Thin-Film Composite Reverse Osmosis (TFC-RO) Membranes: The Impact of Monomer Concentration.. <i>Membranes</i> , 2022 , 12,	3.8	1
73	Effects of alkali on the polyester membranes based on cyclic polyphenols for nanofiltration. <i>Desalination</i> , 2022 , 533, 115774	10.3	
72	Polymer Membrane in Textile Wastewater. <i>Sustainable Textiles</i> , 2022 , 53-84	1.1	
71	Surface and Interface Engineering of Polymer Membranes: Where We Are and Where to Go. <i>Macromolecules</i> , 2022 , 55, 3363-3383	5.5	3
70	Progress and Prospects of Nanocellulose-Based Membranes for Desalination and Water Treatment. <i>Membranes</i> , 2022 , 12, 462	3.8	1
69	Nano-filtration performance and temperature dependency of thin film composite polyamide membranes embedded with thermal responsive zwitterionic nanocapsules. <i>Journal of Membrane Science</i> , 2022 , 120609	9.6	1
68	Electrospun Composite Nanofiltration Membranes for Arsenic Removal. <i>Polymers</i> , 2022 , 14, 1980	4.5	2
67	Mesoporous hollow structural polyaniline-co-polypyrrole nanospheres with amino groups for reverse osmosis membranes with enhanced permeability. <i>Journal of Membrane Science</i> , 2022 , 120637	9.6	0
66	Application of Biomimetic Membranes for Water Purification. <i>Water Science and Technology Library</i> , 2022 , 347-364	0.3	

65	Removal of Contaminants from Water by Membrane Filtration: A Review. <i>Membranes</i> , 2022 , 12, 570	3.8	2
64	Removal of emerging organic micropollutants via modified-reverse osmosis/nanofiltration membranes: A review. <i>Chemosphere</i> , 2022 , 135151	8.4	1
63	Humic Acid Modified Selective Nanofiltration Membrane for Efficient Separation of PFASs and Mineral Salts. <i>ACS ES&T Water</i> ,		0
62	Purification of pectin by ultrafiltration in combination with sodium citrate. <i>Journal of Food Engineering</i> , 2022 , 111158	6	0
61	Enhancing interfacial interaction of PDMS matrix with ZIF-8 via embedding TiO ₂ @ZIF-8 composites for phenol extraction in aqueous-aqueous membrane extractive process. <i>Chemical Engineering Research and Design</i> , 2022 ,	5.5	1
60	Effects of monomer rigidity on microstructures and properties of novel polyamide thin-film composite membranes prepared through interfacial polymerization for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2022 , 120702	9.6	
59	Applications of Metal-Organic Frameworks in Wastewater Treatment and Gas Separation and Purification. <i>ACS Symposium Series</i> , 271-337	0.4	
58	Forward osmosis performance of thin film composite membrane composed of electrospun polysulfone fiber coated by Fe ₃ O ₄ /fCNT-embedded polyamide active layer. <i>Korean Journal of Chemical Engineering</i> ,	2.8	0
57	A CNT/PVA film supported TFC membranes for improvement of mechanical properties and chemical cleaning stability: A new insight to an alternative to the polymeric support. <i>Journal of Membrane Science</i> , 2022 , 120753	9.6	0
56	Assessing the impact of membrane support and different amine monomer structures on the efficacy of thin-film composite nanofiltration membrane for dye/salt separation. <i>Journal of Polymer Research</i> , 2022 , 29,	2.7	
55	Fabrication of polysulfone membrane with sponge-like structure by using different non-woven fabrics. <i>Separation and Purification Technology</i> , 2022 , 297, 121553	8.3	1
54	Development of Composite Thin-Film Nanofiltration Membranes Based on Polyethersulfone for Water Purification. <i>Journal of Polymers and the Environment</i> ,	4.5	0
53	Removal of hazardous ions from aqueous solutions: Current methods, with a focus on green ion flotation. <i>Journal of Environmental Management</i> , 2022 , 319, 115666	7.9	3
52	Preparation of antifouling TFC RO membranes by facile grafting zwitterionic polymer PEI-CA. <i>Desalination</i> , 2022 , 539, 115972	10.3	0
51	Formation of Multilayer Membranes from One Polymer Using IR Treatment. 2022 , 4, 251-257		
50	Efficacy of polymeric nanofibrous membranes for proficient wastewater treatment.		0
49	Purifying water with silver nanoparticles (AgNPs)-incorporated membranes: Recent advancements and critical challenges. 2022 , 222, 118901		2
48	Nanocomposite Polymeric Membranes for Organic Micropollutant Removal: A Critical Review.		1

- 47 Adsorption properties of methylene blue and gentian violet of sodium vanadate nanowire arrays synthesized by hydrothermal method. **2022**, 604, 154608 ○
- 46 A critical review on thin-film nanocomposite membranes enabled by nanomaterials incorporated in different positions and with diverse dimensions: Performance comparison and mechanisms. **2022**, 661, 120952 2
- 45 Evaluating the efficiency of nanofiltration and reverse osmosis membrane processes for the removal of per- and polyfluoroalkyl substances from water: A critical review. **2022**, 302, 122161 ○
- 44 A novel conductive carbon-based forward osmosis membrane for dye wastewater treatment. **2022**, 308, 136367 ○
- 43 Thin-film nanocomposite membranes for water treatment. **2022**, 169-214 ○
- 42 Machine Learning Based Prediction and Optimization of Thin Film Nanocomposite Membranes for Organic Solvent Nanofiltration. ○
- 41 A super-hydrophilic partially reduced graphene oxide membrane with improved stability and antibacterial properties. **2022**, 86, 1426-1443 ○
- 40 Ultrathin polyamide nanofiltration membrane prepared by triazine-based porous organic polymer as interlayer for dye removal. **2022**, ○
- 39 Fabrication of Thin Film Composite Membranes on Nanozeolite Modified Support Layer for Tailored Nanofiltration Performance. **2022**, 12, 940 ○
- 38 Non-Supported and PET-Supported Chitosan Membranes for Pervaporation: Production, Characterization, and Performance. **2022**, 12, 930 1
- 37 Machine learning based prediction and optimization of thin film nanocomposite membranes for organic solvent nanofiltration. **2022**, 122328 ○
- 36 Recent Progress on Pebax-Based Thin Film Nanocomposite Membranes for CO₂ Capture: The State of the Art and Future Outlooks. ○
- 35 FO membrane fabricated by layer-by-layer interfacial polymerisation and grafted sulfonamide group for improving chlorine resistance and water permeability. **2022**, 663, 121042 ○
- 34 Carbon nanotubes ethylenediamine crosslinked membrane for enhanced hydrocarbons separation and filtration performance. **2022**, 100250 ○
- 33 An Evolving MOF Thin-Film Nanocomposite Tubular Ceramic Membrane for Desalination Pretreatment. ○
- 32 Hollow Fiber Membrane for Organic Solvent Nanofiltration: A Mini Review. **2022**, 12, 995 ○
- 31 Crosslinked PMIA ultrafiltration membrane with enhanced permeability via incorporating TMC monomer. ○
- 30 Altering Substrate Properties of Thin Film Nanocomposite Membrane by Al₂O₃ Nanoparticles for Engineered Osmosis Process. 1-24 ○

- 29 Metal-Polyphenol Coordination at the Aqueous Contra-diffusion Interface: A Green Way to High-Performance Iron(III)/Tannic Acid Thin-Film-Composite Nanofiltration Membranes. 1
- 28 Controllable preparation of novel edge-valley shaped poly(p-phenylene terephthamide) (PPTA) hollow fiber nanofiltration membrane for thermal dye/salt wastewater separation. **2022**, 50, 103251 0
- 27 Synthesis and application of a novel monomer 5-(1-Pyrrolidinyl)-1,3-benzenedicarbonyl dichloride in membranes. **2022**, 2, 100042 0
- 26 Boosting brackish water treatment via integration of mesoporous Al₂O₃NPs with thin-film nanofiltration membranes. **2022**, 12, 0
- 25 Graphene quantum dots enhanced ultrathin nanofilms and arginine engineered nanofiltration membranes with ultra-high separation performance. **2023**, 547, 116232 0
- 24 Novel macrocyclic polyamines regulated nanofiltration membranes: Towards efficient micropollutants removal and molecular separation. **2023**, 668, 121180 0
- 23 MOF-based membranes for oil/water separation: Status, challenges, and prospects. **2023**, 11, 109073 1
- 22 Nanofiltration with polyamide thin film composite membrane with ZIF-93/SWCNT intermediate layers on polyimide support. **2023**, 308, 122915 0
- 21 Enhanced Separation Performance of Polyamide Thin-Film Nanocomposite Membranes with Interlayer by Constructed Two-Dimensional Nanomaterials: A Critical Review. **2022**, 12, 1250 0
- 20 Optimization of Preparation Conditions of Poly(m-phenylene isophthalamide) PMIA Hollow Fiber Nanofiltration Membranes for Dye/Salt Wastewater Treatment. **2022**, 12, 1258 0
- 19 A Low-cost Surface Modified Battery-used Polyethylene Membranes for Reverse Osmosis Applications. 1-7 0
- 18 Polyamide Thin-Film Composite Janus Membranes Avoiding Direct Contact between Feed Liquid and Hydrophobic Pores for Excellent Wetting Resistance in Membrane Distillation. 0
- 17 Preparation of chlorine resistant thin-film-composite reverse-osmosis polyamide membranes with tri-acyl chloride containing thioether units. 0
- 16 Interfacial Wettability Regulation Enables One-Step Upcycling of the End-of-Life Polymeric Microfiltration Membrane. 0
- 15 Structural and Morphological Characterization of Strontium Ferrite-Ethylcellulose Nanocomposite for Application in Membrane Technology. **2023**, 231-251 0
- 14 Demystifying the Role of Surfactant in Tailoring Polyamide Morphology for Enhanced Reverse Osmosis Performance: Mechanistic Insights and Environmental Implications. 0
- 13 Tailoring properties and performance of thin-film composite membranes by salt additives for water treatment: A critical review. **2023**, 234, 119821 0
- 12 Parametric and modelling study of H₂O-induced plasticization in PEI-TFC membrane for gas dehydration. **2023**, 314, 123564 0

- 11 A novel single-scan printing approach for polyamide membranes by electrospray technique on polydopamine pre-coated substrate. **2023**, 673, 121461 ○
- 10 Quantifying and reducing concentration polarization in reverse osmosis systems. **2023**, 554, 116480 ○
- 9 Interfacial assembling of flexible silica membranes with high chlorine resistance for dye separation. **2023**, 677, 121628 ○
- 8 Quaternary ammonium salts modification preparing charged Janus nanofiltration membrane for the simultaneous separation of divalent anions and cations. **2023**, 672, 121440 ○
- 7 Nanofoaming by surfactant tunes morphology and performance of polyamide nanofiltration membrane. **2023**, 552, 116457 ○
- 6 A review on algal biosorbents for heavy metal remediation with different adsorption isotherm models. **2023**, 30, 39474-39493 1
- 5 Molecular Design of Hydrophilized Polyethersulfone to Enhance Water/Salt Selectivity. **2023**, 56, 2027-2037 ○
- 4 Reverse osmosis (RO) membrane development and industrial applications. **2023**, 411-435 ○
- 3 Significance of nanoscale in macro-scale in various sectors such as agriculture, environment, and human health. **2023**, 239-261 ○
- 2 Hydrogen Isotope Separation Using Graphene-Based Membranes in Liquid Water. **2023**, 39, 4975-4983 ○
- 1 Fine-tuning of fully-aromatic polyamide membrane for fluorinated water purification. ○