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728	Impact of exopolysaccharides on the stability of silver nanoparticles in water. 2011 , 45, 5184-90		63
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726	Counteracting ammonia inhibition in anaerobic digestion by removal with a hollow fiber membrane contactor. 2012 , 46, 4861-9		110
7 2 5	Enhanced separation performance of PVDF/PVP-g-MMT nanocomposite ultrafiltration membrane based on the NVP-grafted polymerization modification of montmorillonite (MMT). 2012 , 28, 4776-86		150
724	Metal Nanoparticle Modified Polysulfone Membranes for Use in Wastewater Treatment: A Critical Review. 2012 , 02, 183-193		23
723	Desalination efficiency of a novel bipolar membrane based on functionalized polysulfone. <i>Desalination</i> , 2012 , 296, 37-45	10.3	23
722	Boehmite nanoparticles as a new nanofiller for preparation of antifouling mixed matrix membranes. 2012 , 401-402, 132-143		283
721	In situ formation of Ag nanoparticles in PVDF ultrafiltration membrane to mitigate organic and bacterial fouling. <i>Desalination</i> , 2013 , 324, 48-56	10.3	95
720	Synthesis and optimization of PES-Fe3O4 mixed matrix nanocomposite membrane: Application studies in water purification. 2013 , 34, 1870-1877		55
719	A review on membrane fabrication: Structure, properties and performance relationship. <i>Desalination</i> , 2013 , 326, 77-95	10.3	606
718	A review on nanofiltration membrane fabrication and modification using polyelectrolytes: effective ways to develop membrane selective barriers and rejection capability. 2013 , 197-198, 85-107		93
717	Synthesis, characterization and desalination study of composite NF membranes of novel Poly[(4-aminophenyl)sulfonyl]butanediamide (PASB) and methyalated Poly[(4-aminophenyl)sulfonyl]butanediamide (mPASB) with Polysulfone (PSf). 2013 , 428, 489-497		21
716	Recent development in additives modifications of polyethersulfone membrane for flux enhancement. 2013 , 223, 246-267		234
715	Highly efficient wettability control via three-dimensional (3D) suspension of titania nanoparticles in polystyrene nanofibers. 2013 , 5, 1232-9		42
714	Effect of clay nanoparticles on the structure and performance of polyethersulfone ultrafiltration membranes. <i>Desalination</i> , 2013 , 314, 147-158	10.3	45
713	Nano-WS2 embedded PES membrane with improved fouling and permselectivity. 2013 , 396, 120-8		42
712	Fouling resistant mixed matrix polyethersulfone membranes blended with magnetic nanoparticles: Study of magnetic field induced casting. 2013 , 109, 111-121		78

711	Fouling Issues in Membrane Bioreactors (MBRs) for Wastewater Treatment: Major Mechanisms, Prevention and Control Strategies. 2014 , 2, 795-866	68
710	Development of Adsorbents-based Cellulose Acetate Mixed Matrix Membranes for Removal of Pollutants from Textile Industry Effluent. 2014 , 70,	1
709	Advances in Nanotechnologies for Point-of-Use and Point-of-Entry Water Purification. 2014, 229-267	
708	ATMP-stabilized iron nanoparticles: chelator-controlled nanoparticle synthesis. 2014 , 16, 1	15
707	Versatile SiO2 Nanoparticles@Polymer Composites with Pragmatic Properties. 2014, 2014, 1-8	13
706	Comparison of iron (III) and alum salt on ultrafiltration membrane fouling by alginate. <i>Desalination</i> , 2014, 354, 153-159	15
705	Antibacterial properties of membranes modified by acrylic acid with silver nanoparticles. 2014, 1-7	2
704	Hybrid membranes containing inorganic nanoparticles. 2014 , 24, 319-326	49
703	Advances in Modification of Polymer Membranes with Inorganic Nanoparticles. 2014 , 1065-1069, 1717-1724	
702	Adsorptive removal of nitrate from aqueous solution by polyacrylonitrile lumina nanoparticle mixed matrix hollow-fiber membrane. 2014 , 466, 281-292	77
701	Toward improvement of methods for predicting fouling of desalination membranes IThe effect of permeate flux on specific fouling resistance. <i>Desalination</i> , 2014 , 343, 97-105	13
700	Interfacially polymerized thin film nanofiltration membranes on TiO2 coated polysulfone substrate. 2014 , 20, 1261-1268	89
699	Preparation of a novel antifouling mixed matrix PES membrane by embedding graphene oxide nanoplates. 2014 , 453, 292-301	663
698	Synthesis and characterization of PEG-Ag immobilized PES hollow fiber ultrafiltration membranes with long lasting antifouling properties. 2014 , 454, 538-548	75
697	Organosilane-functionalized graphene oxide for enhanced antifouling and mechanical properties of polyvinylidene fluoride ultrafiltration membranes. 2014 , 458, 1-13	338
696	Novel PTMSP-based membranes containing elastomeric fillers: Enhanced 1-butanol/water pervaporation selectivity and permeability. 2014 , 466, 322-330	58
695	Antimicrobial Surfaces. 2014 , 1-29	
694	[Cu2(bdc)2(bpy)]n/SPES-C mixed matrix membranes for separation of methanol/methyl tert-butyl ether mixtures. 2014 , 454, 36-43	30

693	Binary metal oxides for composite ultrafiltration membranes. 2014, 2, 7054-7064		38
692	Design of antimicrobial membrane based on polymer colloids/multiwall carbon nanotubes hybrid material with silver nanoparticles. 2014 , 6, 17384-93		41
691	Reactive phase inversion for manufacture of asymmetric poly (ether imide sulfone) membranes. 2014 , 85, 1-10		2
690	Advances in Polymer-based Nanostructured Membranes for Water Treatment. 2014 , 53, 1290-1316		20
689	Enhancing the insulation of wide-range spectrum in the PVA/N thin film by doping ZnO nanowires. 2014 , 4, 45419-45424		8
688	Improvement of reverse osmosis performance of polyamide thin-film composite membranes using TiO2 nanoparticles. 2014 , 1-12		6
687	Supported and unsupported nanomaterials for water and soil remediation: are they a useful solution for worldwide pollution?. 2014 , 280, 487-503		143
686	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
685	Adsorptive removal of phenolic compounds using cellulose acetate phthalate-alumina nanoparticle mixed matrix membrane. 2014 , 265, 8-19		73
684	Metallic Nanoparticleland Metal Oxide NanoparticleBased Electrodes. 2014, 243-275		1
683	Development and application of reverse osmosis for separation. 2015 , 139-175		0
682	Fabrication of polyvinyl chloride based nanocomposite nanofiltration membrane: investigation of SDS/Al2O3 nanoparticle concentration and solvent ratio effects. 2015 , 10, 791-798		12
681	FABRICATION OF MIXED MATRIC MEMBRANE INCORPORATED WITH MODIFIED SILICA NANOPARTICLES FOR BISPHENOL A REMOVAL. 2015 , 74,		4
680	Effect of Graphene and Fullerene Nanofillers on Controlling the Pore Size and Physicochemical Properties of Chitosan Nanocomposite Mesoporous Membranes. 2015 , 2015, 1-10		3
679	. 2015,		9
678	Preparation of Silica-Polysulfone Based High Flux Fouling Resistant Nanocomposite Ultrafiltration Membranes for Separation of Proteins, Polysaccharides and Humic Substances. 2015 , 52, 299-306		7
677	Enhanced Gas Permeation through Graphene Nanocomposites. 2015 , 119, 13700-13712		62
676	Fouling behavior of polyethersulfone ultrafiltration membranes functionalized with solgel formed ZnO nanoparticles. 2015 , 5, 50711-50719		40

(2015-2015)

675	Facile and low-cost approach towards a PVDF ultrafiltration membrane with enhanced hydrophilicity and antifouling performance via graphene oxide/water-bath coagulation. 2015 , 5, 7880-7889	103
674	A review on RO membrane technology: Developments and challenges. <i>Desalination</i> , 2015 , 368, 10-26 10.3	3 318
673	Antifouling properties of novel PSf and TNT composite membrane and study of effect of the flow direction on membrane washing. <i>Desalination</i> , 2015 , 362, 141-150	3 56
672	Fabrication of layered silicapolysulfone mixed matrix substrate membrane for enhancing performance of thin-film composite forward osmosis membrane. 2015 , 481, 148-163	98
671	New insights into organic gel fouling of reverse osmosis desalination membranes. <i>Desalination</i> , 2015 , 368, 114-126	3 32
670	Grafting distance and molecular weight dependent proton conduction of polymer electrolyte brushes. 2015 , 64, 93-100	6
669	Mixed-matrix membranes based on polyurethane containing nanohydroxyapatite and its potential applications. 2015 , 132,	2
668	Electrochemical characterization of mixed matrix heterogeneous cation exchange membranes modified by simultaneous using ilmenite-co-iron oxide nanoparticles. 2015 , 32, 429-435	13
667	Advances in polymeric membranes for water treatment. 2015 , 3-41	17
666	Hybrid [polysulfonelero Valent Iron] membranes: Synthesis, characterization and application for AsIII remediation. 2015 , 281, 651-660	19
665	Formation of Ag nanoparticles in PVA solution and catalytic activity of their electrospun PVA nanofibers. 2015 , 16, 840-849	17
664	Comparison between hydrophilic and hydrophobic metal nanoparticles on the phase separation phenomena during formation of asymmetric polyethersulphone membranes. 2015 , 493, 709-722	47
663	What is the concentration threshold of nanoparticles within the membrane structure? A case study of Al2O3/PSf nanocomposite membrane. <i>Desalination</i> , 2015 , 372, 75-88	3 37
662	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. 2015 , 5, 11515	12
661	Surface modification of SiO2 nanoparticles and its impact on the properties of PES-based hollow fiber membrane. 2015 , 5, 58644-58654	31
660	Fabrication and characterization of anti-fouling and anti-bacterial Ag-loaded graphene oxide/polyethersulfone mixed matrix membrane. 2015 , 30, 342-352	93
659	Enhancing the antifouling property of polyethersulfone ultrafiltration membranes using NaX zeolite and titanium oxide nanoparticles. 2015 , 5, 55964-55976	35
658	Application of Low-Cost Materials Coated with Silver Nanoparticle as Water Filter in Escherichia coli Removal. 2015 , 7, 617-625	29

657	Addition of Adsorbents to Nanofiltration Membrane to Obtain Complete Pesticide Removal. 2015 , 226, 1	6
656	New generation vapour permeation membranes. 2015 , 247-273	3
655	Next-generation pervaporation membranes. 2015 , 107-141	4
654	Novel nanohybrid polysulfone membrane embedded with silver nanoparticles on graphene oxide nanoplates. 2015 , 277, 1-10	134
653	Simultaneously covalent and ionic bridging towards antifouling of GO-imbedded nanocomposite hollow fiber membranes. 2015 , 3, 10573-10584	76
652	Enhancement of the Antifouling Properties and Filtration Performance of Poly(ethersulfone) Ultrafiltration Membranes by Incorporation of Nanoporous Titania Nanoparticles. 2015 , 54, 11188-11198	49
651	Preparation and characterization of antifouling graphene oxide/polyethersulfone ultrafiltration membrane: Application in MBR for dairy wastewater treatment. 2015 , 7, 280-294	81
650	Reduced graphene oxide/polyaniline conductive anion exchange membranes in capacitive deionisation process. 2015 , 182, 383-390	29
649	Synthesis of minimal-size ZnO nanoparticles through solgel method: Taguchi design optimisation. 2015 , 87, 780-787	64
648	Preparation and characterization of PES/SiO2 composite ultrafiltration membrane for advanced water treatment. 2015 , 32, 2319-2329	40
647	Cellophane and filter paper as cellulosic support for silver nanoparticles and its thermal decomposition catalysis. 2015 , 133, 277-83	8
646	Reverse micelles prepared from amphiphilic polylactide-b-poly(ethylene glycol) block copolymers for controlled release of hydrophilic drugs. 2015 , 495, 154-161	19
645	Preparation of metal-ion containing polymers: Synthesis and characterization of methacryliccopolymers containing copper ion. 2015 , 77, 297-304	4
644	Polymer-matrix nanocomposite membranes for water treatment. 2015 , 479, 256-275	698
643	Review: is interplay between nanomaterial and membrane technology the way forward for desalination?. 2015 , 90, 971-980	45
642	Characterization Methods of Thin Film Composite Nanofiltration Membranes. 2015 , 44, 135-156	78
641	Polyethersulfone membrane enhanced with iron oxide nanoparticles for copper removal from water: Application of new functionalized Fe3O4 nanoparticles. 2015 , 263, 101-112	179
640	Fabrication of novel mixed matrix electrodialysis heterogeneous ion-exchange membranes modified by ilmenite (FeTiO3): electrochemical and ionic transport characteristics. 2015 , 21, 437-447	19

(2016-2015)

639	approach in membrane bioreactors. 2015 , 22, 357-367	45
638	Inorganic Nanomaterials in Polymeric Ultrafiltration Membranes for Water Treatment. 2015 , 44, 216-249	131
637	Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. 2015 , 54, 3603-3609	15
636	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. 2016 , 8,	19
635	. 2016,	1
634	Structure and Transport Properties of Mixed-Matrix Membranes Based on Polyimides with ZrOI Nanostars. 2016 , 8,	14
633	Removal of Nickel by adsorption from Aqueous Solution of Cellulose Acetate-Zero Valent Iron Nanoparticle Mixed Matrix Membrane. 2016 , 9,	
632	OrganicIhorganic composite membrane preparation and characterization for biorefining. 2016, 85-102	3
631	Preparation and properties of polyvinyl chloride ultrafiltration membranes blended with functionalized multi-walled carbon nanotubes and MWCNTs/Fe3O4 hybrids. 2016 , 133, n/a-n/a	2
630	Enhancing antifouling performance of poly(l-lactide) membranes by TiO2 nanoparticles. 2016 , 133, n/a-n/a	6
629	Functional electrospun membranes. 2016,	
628	Effects of DMSO and glycerol additives on the property of polyamide reverse osmosis membrane. 2016 , 74, 1619-1625	4
627	Enhanced hydrophilicity of a thermo-responsive PVDF/palygorskite-g-PNIPAAM hybrid ultrafiltration membrane via surface segregation induced by temperature. 2016 , 6, 62186-62192	13
626	Low-temperature fuel cells: Outlook for application in energy storage systems and materials for their development. 2016 , 63, 385-398	21
625	In situ growth of biocidal AgCl crystals in the top layer of asymmetric polytriazole membranes. 2016 , 6, 46696-46701	11
624	Caulerpa racemosa: a marine green alga for eco-friendly synthesis of silver nanoparticles and its catalytic degradation of methylene blue. 2016 , 39, 1401-8	94
623	Photoactivity of hierarchically nanostructured ZnOPES fibre mats for water treatments. 2016 , 6, 42778-42785	5 31
	Harnessing the power of latex solutions based on titania particles lusing si-ATRP towards larger	

Reducing fouling of polyethersulfone microfiltration membranes by corona air plasma. **2016**, 57, 26976-26992 15

620	Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. 2016 , 520, 881-894	31
619	Preparation and characterization of a novel highly hydrophilic and antifouling polysulfone/nanoporous TiO2 nanocomposite membrane. 2016 , 27, 415706	36
618	Mixed Matrix Membranes for Nanofiltration Application. 2016 , 441-476	4
617	TiO2-induced photo-cross-linked electrospun polyvinyl alcohol nanofibers microfiltration membranes. 2016 , 99, 642-653	17
616	Mathematical modeling of transport properties of proton-exchange membranes containing immobilized nanoparticles. 2016 , 41, 15605-15614	23
615	Photocatalytic antifouling PVDF ultrafiltration membranes based on synergy of graphene oxide and TiO2 for water treatment. 2016 , 520, 281-293	247
614	Polymeric Membrane Reactors. 2016 , 104-137	1
613	Study on the reinforcing effect of nanodiamond particles on the mechanical, thermal and antibacterial properties of cellulose acetate membranes. 2016 , 69, 166-176	44
612	Influence of TiO2 nanostructures on anti-adhesion and photoinduced bactericidal properties of thin film composite membranes. 2016 , 6, 82941-82948	15
611	Gas separation in mixed matrix membranes based on polyurethane containing SiO 2 , ZSM-5, and ZIF-8 nanoparticles. 2016 , 35, 695-702	40
610	A Novel Semi-aromatic Polyamide/Mesoporous Silica Sphere Nanocomposite Membrane with Superior Separation Performance. 2016 , 45, 214-216	2
609	A review on chitosan-based adsorptive membranes. 2016 , 152, 419-432	205
608	Novel hydrophilic PVDF ultrafiltration membranes based on a ZrO2fhultiwalled carbon nanotube hybrid for oil/water separation. 2016 , 51, 8965-8976	35
607	Fabrication of a MIL-53(Al) Nanocomposite Membrane and Potential Application in Desalination of Dye Solutions. 2016 , 55, 12099-12110	45
606	Fabrication of antimicrobial polyethersulfone microfiltration membranes by corona plasma-assisted coating of silver nanoparticles. 2016 , 6, 108113-108124	14
605	A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. 2016 , 6, 22069	186
604	Surface engineering and self-cleaning properties of the novel TiO2/PAA/PTFE ultrafiltration membranes. 2016 , 6, 225-233	13

(2016-2016)

603	Sensor systems based on ion exchange membranes for analysis of multicomponent solutions. 2016 , 56, 987-1005	3
602	Sulfonation and mixing with TiO2 nanoparticles as two simultaneous solutions for reducing fouling of polysulfone loose nanofiltration membrane. 2016 , 33, 2439-2452	11
601	Antifouling polyethersulfone hemodialysis membranes incorporated with poly (citric acid) polymerized multi-walled carbon nanotubes. 2016 , 68, 540-550	45
600	Progress and challenges of carbon nanotube membrane in water treatment. 2016 , 46, 999-1046	45
599	Enhancement in copper ion removal by PPy@Al2O3 polymeric nanocomposite membrane. 2016 , 40, 26-33	42
598	Marine antifouling property of PMMA nanocomposite films: Results of laboratory and field assessment. 2016 , 114, 57-66	17
597	Manipulating Migration Behavior of Magnetic Graphene Oxide via Magnetic Field Induced Casting and Phase Separation toward High-Performance Hybrid Ultrafiltration Membranes. 2016 , 8, 18418-29	67
596	Study for adsorption behaviors of emulsion oil on a novel ZrO2/PVDF modified membrane. 2016 , 57, 11736-11745	3
595	A new approach to copper ion removal from water by polymeric nanocomposite membrane embedded with Falumina nanoparticles. 2016 , 364, 221-228	80
594	Nanocomposite membranes. 2016 , 57, 26803-26819	28
593	Thermally resistant and electrically conductive PES/ITO nanocomposite membrane. 2016, 500, 151-160	32
592	DLVO Approximation Methods for Predicting the Attachment of Silver Nanoparticles to Ceramic Membranes. 2016 , 32, 1723-31	27
591	Novel ion-exchange nanocomposite membrane containing in-situ formed FeOOH nanoparticles: Synthesis, characterization and transport properties. 2016 , 33, 1380-1390	9
590	A polypropylene cartridge filter with hematite nanoparticles for solid particles retention and arsenic removal. 2016 , 366, 529-534	13
589	High flux and high selectivity carbon nanotube composite membranes for natural organic matter removal. 2016 , 163, 109-119	58
588	Fabrication of semi-aromatic polyamide/spherical mesoporous silica nanocomposite reverse osmosis membrane with superior permeability. 2016 , 363, 338-345	26
587	Recent trends in membranes and membrane processes for desalination. <i>Desalination</i> , 2016 , 391, 43-60 10.3	180
586	A comprehensive review on anti-fouling nanocomposite membranes for pressure driven membrane separation processes. <i>Desalination</i> , 2016 , 379, 137-154	379

585	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. 2016 , 45, 141-167	65
584	Surface modification of PVDF membranes by sputtered TiO2: fouling reduction potential in membrane bioreactors. 2016 , 57, 3328-3338	14
583	A novel approach for the biosynthesis of silver oxide nanoparticles using aqueous leaf extract of Callistemon lanceolatus (Myrtaceae) and their therapeutic potential. 2016 , 11, 445-458	49
582	Surface photomodification of flat-sheet PES membranes with improved antifouling properties by varying UV irradiation time and additive solution pH. 2016 , 283, 231-242	34
581	Functionalization of zinc oxide (ZnO) nanoparticles and its effects on polysulfone-ZnO membranes. 2016 , 57, 7801-7811	36
580	TiO2 nanocomposite based polymeric membranes: A review on performance improvement for various applications in chemical engineering processes. 2016 , 283, 29-46	270
579	Development of a nanofiltration membrane for humic acid removal through the formation of polyelectrolyte multilayers that contain nanoparticles. 2016 , 57, 7627-7636	6
578	Long-term disinfection performance of silver nanoparticles impregnated membranes. 2016 , 57, 4906-4912	4
577	The role of silver nanoparticles on mixed matrix Ag/cellulose acetate asymmetric membranes. 2017 , 38, 32-39	16
576	Mixed Matrix Membranes for Water Purification Applications. 2017 , 46, 62-80	89
575	Growth of ZnO nanowires on polypropylene membrane surface@haracterization and reactivity. 2017 , 391, 457-467	31
574	Polysulfonepoly(Orthotoluidine) nanocomposite membrane with an improved separation performance. 2017 , 38, E157-E166	2
573	Performance evaluation and antifouling analyses of cellulose acetate/nanodiamond nanocomposite membranes in water treatment. 2017 , 134,	33
572	Fe2O3 nanocomposite PVC membrane with enhanced properties and separation performance. 2017 , 529, 170-184	57
571	A Novel Sulfonated Poly Phenylene Oxide-Poly Vinylchloride/ZnO Cation-Exchange Membrane Applicable in Refining of Saline Liquids. 2017 , 28, 1489-1507	8
57°	Facile preparation of a silver nanoparticles-containing membrane with an enhanced catalysis and separation. 2017 , 536, 35-44	17
569	Membrane properties and anti-bacterial/anti-biofouling activity of polysulfone-graphene oxide composite membranes phase inversed in graphene oxide non-solvent. 2017 , 7, 4378-4386	24
568	Effect study of hexagonal mesoporous silica/polyaniline nanocomposite on the structural properties of polysulfone membranes and its heavy metal removal efficiency. 2017 , 52, 1775-1786	6

(2017-2017)

567	Synthesis and characterization of an enhanced heterogeneous cation exchange membrane via nanoclay. 2017 , 23, 1745-1758	8
566	Recent developments of carbon based nanomaterials and membranes for oily wastewater treatment. 2017 , 7, 20981-20994	68
565	Methods for the Preparation of OrganicIhorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells. 2017 , 311-325	27
564	Tailoring structures and performance of polyamide thin film composite (PA-TFC) desalination membranes via sublayers adjustment-a review. <i>Desalination</i> , 2017 , 417, 19-35	84
563	A multicontinuum approach for the problem of filtration of oily water systems across thin flat membranes: I. The framework. 2017 , 63, 4604-4615	25
562	Novel organic-inorganic hybrid polyvinylidene fluoride ultrafiltration membranes with antifouling and antibacterial properties by embedding N-halamine functionalized silica nanospheres. 2017 , 52, 295-304	18
561	Enhanced hydrophilic polysulfone hollow fiber membranes with addition of iron oxide nanoparticles. 2017 , 66, 1424-1429	17
560	Organic-Inorganic Composite Polymer Electrolyte Membranes. 2017,	5
559	Porous structure of ion exchange membranes investigated by various techniques. 2017 , 246, 196-216	73
558	A novel polyester composite nanofiltration membrane formed by interfacial polymerization of pentaerythritol (PE) and trimesoyl chloride (TMC). 2017 , 416, 152-159	50
557	Antibacterial Polymeric Membranes. 2017 , 205-230	1
556	Hybrid organic-inorganic 6FDA-6pFDA and multi-block 6FDA-DABA polyimide SiO2IIiO2 nanocomposites: Synthesis, FFV, FTIR, swelling, stability, and X-ray scattering. 2017 , 108, 105-120	23
555	Fabrication of a novel polyhedral oligomeric silsesquioxanes/polyether-block-amide nano-hybrid membrane for pervaporative separation of model fuel butanol. 2017 , 134, 45211	3
554	Fabrication, tuning and optimization of poly (acrilonitryle) nanofiltration membranes for effective nickel and chromium removal from electroplating wastewater. 2017 , 187, 46-59	60
553	Self-organized, free-standing TiO2 nanotube membranes: Effect of surface electrokinetic properties on flow-through membranes. 2017 , 245, 25-31	9
552	Reduction of methylene blue with Ag nanoparticle-modified microporous polypropylene membranes in a flow-through reactor. 2017 , 41, 6076-6082	12
551	Nanotechnology in agriculture: Opportunities, toxicological implications, and occupational risks. 2017 , 329, 96-111	241
550	Impact of rare-earth metal oxide (Eu2O3) on the electrochemical properties of a polypyrrole/CuO polymeric composite for supercapacitor applications. 2017 , 7, 20037-20048	78

549	Progress and perspectives for synthesis of sustainable antifouling composite membranes containing in situ generated nanoparticles. 2017 , 524, 502-528		107
548	Fouling and biofouling resistance of metal-doped mesostructured silica/polyethersulfone ultrafiltration membranes. 2017 , 526, 252-263		42
547	In-situ modification of PVDF membrane during phase-inversion process using carbon nanosphere sol as coagulation bath for enhancing anti-fouling ability. 2017 , 526, 272-280		28
546	The roles of bacteriophages in membrane-based water and wastewater treatment processes: A review. 2017 , 110, 120-132		52
545	Novel functional aromatic polyimides and polyimide/titania nanocomposite thin films for gas separation: preparation and structural characterization. 2017 , 14, 777-789		16
544	Sustainable Route in Preparation of Polymeric Membranes. 2017 , 97-120		3
543	Seven-bore hollow fiber membrane (HFM) for ultrafiltration (UF). 2017 , 128, 240-247		11
542	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. 2017 , 9, 38877-38886		65
541	Silver nanoparticles supported on polyethylene glycol/cellulose acetate ultrafiltration membranes: preparation and characterization of composite. 2017 , 24, 4997-5012		6
540	Fabrication of composite nanofiltration membrane by incorporating attapulgite nanorods during interfacial polymerization for high water flux and antifouling property. 2017 , 544, 79-87		91
539	Enhanced Separation Performance for CO2 Gas of Mixed-Matrix Membranes Incorporated with TiO2/Graphene Oxide: Synergistic Effect of Graphene Oxide and Small TiO2 Particles on Gas Permeability of Membranes. 2017 , 56, 8981-8990		10
538	A review of efforts to reduce membrane fouling by control of feed spacer characteristics. <i>Desalination</i> , 2017 , 420, 384-402	10.3	69
537	Coarsening-resistant Ag nanoparticles stabilized on amorphous TiOx nanoparticles. 2017, 19, 1		
536	Bio-inspired, fouling resistant, tannic acid functionalized halloysite nanotube reinforced polysulfone loose nanofiltration hollow fiber membranes for efficient dye and salt separation. 2017 , 20, 138-148		31
535	Water purification by polymer nanocomposites: an overview. 2017 , 3, 47-66		131
534	Preparation, characterization and anti-fouling properties of nanoclays embedded polypropylene mixed matrix membranes. 2017 , 125, 35-45		25
533	Fabrication and performance characterization of novel zinc oxide filled cross-linked PVA/PEG 600 blended membranes for CO 2 /N 2 separation. 2017 , 55, 65-73		34
532	Advances in polymer-inorganic hybrids as membrane materials. 2017 , 163-206		12

(2017-2017)

531	Development of polysulfone-nanohybrid membranes using ZnO-GO composite for enhanced antifouling and antibacterial control. <i>Desalination</i> , 2017 , 402, 123-132	10.3	140
530	Production of polyamide-12 membranes for microfiltration through selective laser sintering. 2017 , 525, 157-162		29
529	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. <i>Desalination</i> , 2017 , 401, 1-15	10.3	66
528	Magnetic field-augmented coagulation bath during phase inversion for preparation of ZnFe2O4/SiO2/PES nanofiltration membrane: A novel method for flux enhancement and fouling resistance. 2017 , 46, 9-18		64
527	Understanding functionalized silica nanoparticles incorporation in thin film composite membranes: Interactions and desalination performance. 2017 , 521, 53-64		44
526	Dual functionalized poly(vinylidene fluoride) membrane with acryloylmorpholine and argatroban to improve antifouling and hemocompatibility. 2017 , 105, 178-188		17
525	Recent progress in the hydrophilic modification of alumina membranes for protein separation and purification. 2017 , 43, 915-925		43
524	Preparation of novel polysulfone-Fe3O4/GO mixed-matrix membrane for humic acid rejection. 2017 , 15, 83-88		43
523	Biofouling prevention using silver nanoparticle impregnated polyethersulfone (PES) membrane: E. coli cell-killing in a continuous cross-flow membrane module. 2017 , 491, 13-26		42
522	Polymers against Microorganisms. 2017,		8
521	Zwitterionic ultrafiltration membranes for As (V) rejection. 2017, 308, 347-358		25
520	Silica incorporated membrane for wastewater based filtration. 2017,		4
519	Separation of Bioactive Whey Proteins and Peptides. 2017 , 463-494		4
518	Mixed-matrix membranes with enhanced antifouling activity: probing the surface-tailoring potential of Tiron and chromotropic acid for nano-TiO. 2017 , 4, 170368		7
517	Alteration of polyethersulphone membranes through UV-induced modification using various materials: A brief review. 2017 , 10, S1821-S1834		38
516	8. Polymers in separation processes. 2017 , 235-276		3
515	Polyethersulfone (barium chloride blend ultrafiltration membranes for dye removal studies. 2017 , 263, 032027		2
514	Novel Desalination RO Membranes. 2017 ,		0

513	Nanocomposite Based on Functionalized Gold Nanoparticles and Sulfonated Poly(ether ether ketone) Membranes: Synthesis and Characterization. 2017 , 10,		6
512	Nanotechnology for water purification: applications of nanotechnology methods in wastewater treatment. 2017 , 33-74		78
511	Silica Membrane Application for Desalination Process. 2017 , 181-216		2
510	Preparation and Characterization of Polymeric-Hybrid PES/TiO2 Hollow Fiber Membranes for Potential Applications in Water Treatment. 2017 , 5, 14		21
509	Polysulfone-based modified organoclay nanocomposites as a promising breast anticancer agent. 2017 , 3, 1417672		10
508	Polymers in separation processes. 2017 , 2,		2
507	EFFECTS OF MEMBRANE FABRICATION CONDITIONS TOWARDS THE PERFORMANCE OF NANOPARTICLES-INCORPORATED MEMBRANES. 2017 , 79,		О
506	EVALUATION OF IRON OXIDE DECORATED ON GRAPHENE OXIDE (FE3O4/GO) NANOHYBRID INCORPORATED IN PSF MEMBRANE AT DIFFERENT MOLAR RATIOS FOR CONGO RED REJECTION. 2017 , 79,		1
505	Concentration of whey protein from cheese whey effluent using ultrafiltration by combination of hydrophilic metal oxides and hydrophobic polymer. 2018 , 93, 2576-2591		19
504	Periodic electrolysis technique for in situ fouling control and removal with low-pressure membrane filtration. <i>Desalination</i> , 2018 , 433, 10-24	10.3	9
503	Advances in forward osmosis membranes: Altering the sub-layer structure via recent fabrication and chemical modification approaches. <i>Desalination</i> , 2018 , 436, 176-201	10.3	80
502	Simulation and optimisation of a two-stage/two-pass reverse osmosis system for improved removal of chlorophenol from wastewater. 2018 , 22, 131-137		13
501	Influence of graphene oxide sheets on the pore structure and filtration performance of a novel graphene oxide/silica/polyacrylonitrile mixed matrix membrane. 2018 , 53, 6505-6518		12
500	Removal of dye and heavy metal ion using a novel synthetic polyethersulfone nanofiltration membrane modified by magnetic graphene oxide/metformin hybrid. 2018 , 552, 326-335		145
499	Polymeric Nanocomposites (PNCs) for Wastewater Remediation: An Overview. 2018 , 57, 1801-1827		20
498	Comparing the antifouling effects of activated carbon and TiO in ultrafiltration membrane development. 2018 , 515, 109-118		47
497	An overview on membrane strategies for rare earths extraction and separation. 2018, 197, 70-85		84
496	Self-crosslinked organic-inorganic nanocomposite membranes with good methanol barrier for direct methanol fuel cell applications. 2018 , 315, 71-76		16

495	The influence of filler type on the separation properties of mixed-matrix membranes. 2018, 72, 1095-1105	5
494	Robust fabrication of thin film polyamide-TiO nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. 2018 , 8, 784	96
493	Synthesis and characterization of novel Cellulose Nanocrystals-based Thin Film Nanocomposite membranes for reverse osmosis applications. <i>Desalination</i> , 2018 , 439, 179-187	73
492	Development of advanced nanocomposite membranes using graphene nanoribbons and nanosheets for water treatment. 2018 , 560, 97-107	77
491	Effects of the post-modification using bismuth chelate (BisBAL) on the anti-biofouling and performance properties of flat-sheet microfiltration membranes. 2018 , 23, 75-83	0
490	A review of the management of inflow water, wastewater and water reuse by membrane technology for a sustainable production in shrimp farming. 2018 , 23, 27-44	25
489	Polysulfone based ultrafiltration membranes with dopamine and nisin moieties showing antifouling and antimicrobial properties. 2018 , 202, 9-20	16
488	Sorption of Molecular Oxygen by Metallbn Exchanger Nanocomposites. 2018 , 92, 527-531	1
487	Effect of polymer type on characterization and filtration performances of multi-walled carbon nanotubes (MWCNT)-COOH-based polymeric mixed matrix membranes. 2018 , 39, 1226-1237	7
486	Silver nanoparticle impregnated rechargeable polyethersulfone (PES) membrane for biofouling prevention and water disinfection. 2018 , 93, 277-286	4
485	The influence of metal oxides on the separation properties of hybrid alginate membranes. 2018 , 53, 1178-1190	9
484	Separation and antifouling properties of hydrolyzed PAN hybrid membranes prepared via in-situ sol-gel SiO2 nanoparticles growth. 2018 , 545, 250-258	38
483	PEG-CNTs nanocomposite PSU membranes for wastewater treatment by membrane bioreactor. 2018 , 190, 165-176	60
482	Surface Modification of Polysulfone Membranes Using Poly(Acrylic Acid)-Decorated Alumina Nanoparticles. 2018 , 41, 261-269	9
481	Ionic liquid grafted graphene oxide composite to create proton transfer pathways in polymer electrolyte membrane. 2018 , 538, 622-627	11
480	Improved hydrophilic property of PES/PEG/MnCO3 blended membranes for synthetic dye separation. 2018 , 75, 592-604	10
479	Al2O3/poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. 2018 , 25, 1161-1181	7
478	Effect of nano-silica on gas permeation properties of polyether-based polyurethane membrane in the presence of esterified canola oil diol as a nucleation agent for hard segments. 2018 , 135, 45979	4

477	Chitosan-based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO2 nanoparticles incorporation. 2018 , 39, 4452-4466	19
476	Polymer nanocomposites with cellulose nanocrystals made by co-precipitation. 2018 , 135, 45648	15
475	Development and characterization of glycerol coating on the PAN/PVDF composite membranes. 2018 , 458, 012006	O
474	Alumina Membranes for Desalination and Water Treatment. 2018,	3
473	Preparation and characterization of polyvinyl butyral/zeolitic imidazolate framework-8 nanocomposite ultrafiltration membranes to improve water flux. 2018 , 37, 3607-3618	3
472	Improving the Transport and Antifouling Properties of Poly(vinyl chloride) Hollow-Fiber Ultrafiltration Membranes by Incorporating Silica Nanoparticles. 2018 , 3, 17439-17446	7
471	Design of a Semi-Continuous Selective Layer Based on Deposition of UiO-66 Nanoparticles for Nanofiltration. 2018 , 8,	7
470	Preparation of CuONPs@PVDF/Non-Woven Polyester Composite Membrane: Structural Influence of Nanoparticle Addition. 2018 , 10,	7
469	Cerium oxide immobilized paper matrices for bactericidal application. 2018, 232-235, 1-7	5
468	Antifouling and anti-algal effects of chitosan nanocomposite (TiO2/Ag) and pristine (TiO2 and Ag) films on marine microalgae Dunaliella salina. 2018 , 6, 6870-6880	26
467	Hybrid Membranes for Carbon Dioxide Removal From High-Pressure Natural Gas. 2018, 439-467	
466	Handbook of Materials Characterization. 2018,	15
465	Characterizations of Polysulfone/Ferrihydrite Mixed Matrix Membranes for Water/Wastewater Treatment. 2018 , 90, 64-73	14
464	Fourier Transform Infrared Spectroscopy: Fundamentals and Application in Functional Groups and Nanomaterials Characterization. 2018 , 317-344	14
463	Fabrication and characterization of novel polyacrylonitrile/Fe2O3 ultrafiltration mixed-matrix membranes for nitrate removal from aqueous solutions. 2018 , 271, 557-570	14
462	The effect of amine functionalization of CuO and ZnO nanoparticles used as additives on the morphology and the permeation properties of polyethersulfone ultrafiltration nanocomposite membranes. 2018 , 154, 388-409	50
461	TiOIPolyamide Thin Film Nanocomposite Reverses Osmosis Membrane for Water Desalination. 2018 , 8,	29
460	Coating carboxylic and sulfate functional groups on ZrO2 nanoparticles: Antifouling enhancement of nanocomposite membranes during water treatment. 2018 , 131, 299-314	18

459	performance prepared via phase inversion. 2018 , 527, 10-24	34
458	Microwave-assisted graft synthesis and characterization of poly(methacrylic acid)-grafted polyethersulfone towards dense hydrophilic and low-fouling membranes for water treatment. 2018 , 106, 107-115	9
457	Graphene Oxide-Based Polymeric Membranes for Water Treatment. 2018, 5, 1701427	43
456	Investigation of the critical entry pressure values associated with the permeation of an oil droplet through a cascade of pore throats and pore bodies: A quasistatic analysis. 2018 , 187, 292-301	14
455	One pot preparation of polysulfone-amino functionalized SiO2 nanoparticle ultrafiltration membranes for water purification. 2018 , 6, 4598-4604	23
454	A study of the effect of embedding ZnO-NPs on PVC membrane performance use in actual hospital wastewater treatment by membrane bioreactor. 2018 , 130, 262-274	51
453	Preparation and characterization of PSF/PEI/CaCO nanocomposite membranes for oil/water separation. 2018 , 25, 25315-25326	29
452	Optical Characterization of Nanomaterials. 2018 , 269-299	8
45 ¹	Recent Developments of Carbon Nanomaterials-Incorporated Membranes, Carbon Nanofibers and Carbon Membranes for Oily Wastewater Treatment. 2018 , 261-280	2
450	Bioinspired synthesis of multi-walled carbon nanotubes based enoxacin-imprinted nanocomposite membranes with excellent antifouling and selective separation properties. 2018 , 91, 468-480	11
449	Modeling of flux decline behavior during the filtration of oily-water systems using porous membranes: Effect of pinning of nonpermeating oil droplets. 2018 , 207, 240-254	19
448	Membrane separation as a pre-treatment process for oily saline water. <i>Desalination</i> , 2018 , 447, 182-202 10.3	67
447	Development of polyethersulfone (PES)/silver nanoparticles (AgNPs)/polyethylene glycol (PEG) nanofiltration membrane. 2018 ,	
446	Review of nanomaterials-assisted ion exchange membranes for electromembrane desalination. 2018 , 1,	53
445	Inorganic Membranes: Preparation and Application for Water Treatment and Desalination. 2018 , 11,	115
444	Progress of Nanocomposite Membranes for Water Treatment. 2018 , 8,	116
443	Performance of Nanocomposite Membranes Containing 0D to 2D Nanofillers for COLSeparation: A Review. 2018 , 8,	39
442	Nanotechnology for Environmental Remediation: Materials and Applications. 2018 , 23,	238

441	Cyclodextrin-Based Nanofibers and Membranes: Fabrication, Properties and Applications. 2018,	2
440	Studies on removal of arsenic using cellulose acetatelinc oxide nanoparticle mixed matrix membrane. 2018 , 8, 201-211	19
439	Fabrication and characterization of cation exchange nanocomposite membranes comprising ABS/PC polymer blend with NiFe2O4 nanoparticles. 2018 , 6, 5434-5442	2
438	Clay-based nanofibrous membranes reinforced by multi-walled carbon nanotubes. 2018 , 44, 15873-15879	8
437	Recent advances on mixed-matrix membranes for gas separation: Opportunities and engineering challenges. 2018 , 35, 1577-1600	70
436	Improvement of stability and performance of functionalized halloysite nano tubes-based thin film nanocomposite membranes. 2018 , 563, 470-480	31
435	Membrane Filtration Techniques Through Polymer Nanocomposites. 2018, 265-300	
434	Methods for preparation of nanocomposites in environmental remediation. 2018 , 1-28	6
433	Membrane bioreactors and electrochemical processes for treatment of wastewaters containing heavy metal ions, organics, micropollutants and dyes: Recent developments. 2019 , 370, 172-195	69
432	Regeneration and reuse of polymeric nanocomposites in wastewater remediation: the future of economic water management. 2019 , 76, 647-681	11
431	Structure and Physical Properties of Al2O3 Nanofillers Embedded in Poly(Vinyl Alcohol). 2019, 40, E647	6
430	Performance investigation of Fe3O4 blended poly (vinylidene fluoride) membrane on filtration and benzyl alcohol oxidation: Evaluation of sufficiency for catalytic reactors. 2019 , 27, 314-321	3
429	Effect of alumina on the performance and characterization of cross-linked PVA/PEG 600 blended membranes for CO2/N2 separation. 2019 , 210, 627-635	42
428	Fabrication of graphene-based membrane for separation of hazardous contaminants from wastewater. 2019 , 267-291	
427	Robust Polymer Nanocomposite Membranes Incorporating Discrete TiO Nanotubes for Water Treatment. 2019 , 9,	18
426	Preparation and Characterization of Thin-Film Nanocomposite Membrane Incorporated with MoO3 Nanoparticles with High Flux Performance for Forward Osmosis. 2019 , 4, 7832-7837	3
425	Improving the permeability and antifouling property of PES ultrafiltration membranes using the drying method and incorporating the CuO-ZnO nanocomposite. 2019 , 31, 100891	14
424	siRNA nanotherapeutics: a promising strategy for anti-HBV therapy. 2019 , 13, 457-463	7

423	Inorganic nanomaterials in polymeric water decontamination membranes. 2019 , 23, 1-11	8
422	Iron oxide nanoparticles improved biocompatibility and removal of middle molecule uremic toxin of polysulfone hollow fiber membranes. 2019 , 136, 48234	9
421	The Key Role of Modifications in Biointerfaces toward Rendering Antibacterial and Antifouling Properties in Polymeric Membranes for Water Remediation: A Critical Assessment. 2019 , 3, 1900017	29
420	Tunable microstructure of polyacrylate/ZnO nanorods composite emulsion and its film-forming properties. 2019 , 135, 382-391	2
419	Permeability hysteresis of polypyrrole-polysulfone blend ultrafiltration membranes: study of phase separation thermodynamics and pH responsive membrane properties. 2019 , 227, 115736	10
418	Improvements in heterogeneous cation exchange membranes by incorporation of Fe2O3 nanoparticles. 2019 , 25, 4953-4968	5
417	110th Anniversary: Cellulose Nanocrystals as Organic Nanofillers for Cellulose Triacetate Membranes Used for Desalination by Pervaporation. 2019 , 58, 14340-14349	18
416	Enhancing the Anti-biofouling Properties of Polyethersulfone Membrane Using Chitosan-Powder Activated Carbon Composite. 2019 , 27, 2156-2166	2
415	A comprehensive experimental and artificial network investigation of the performance of an ultrafiltration titanium dioxide ceramic membrane: application in produced water treatment. 2019 , 33, 459-475	4
414	. 2019,	5
414	. 2019, Surface Modification of Water Purification Membranes. 2019, 363-398	3
413	Surface Modification of Water Purification Membranes. 2019 , 363-398	
413	Surface Modification of Water Purification Membranes. 2019, 363-398 Microporous Membranes for Water Purification. 2019, 115-160 The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water	3
413 412 411	Surface Modification of Water Purification Membranes. 2019, 363-398 Microporous Membranes for Water Purification. 2019, 115-160 The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water nanoemulsion separation. 2019, 32, 100959 Polishing monoclonal antibody using pH-responsive TiO2/polysulfone membrane in dual	3
413 412 411 410	Surface Modification of Water Purification Membranes. 2019, 363-398 Microporous Membranes for Water Purification. 2019, 115-160 The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water nanoemulsion separation. 2019, 32, 100959 Polishing monoclonal antibody using pH-responsive TiO2/polysulfone membrane in dual size-exclusion strategy. 2019, 213, 359-367	3
413 412 411 410 409	Surface Modification of Water Purification Membranes. 2019, 363-398 Microporous Membranes for Water Purification. 2019, 115-160 The efficient mixed matrix antifouling membrane for surfactant stabilized oil-in-water nanoemulsion separation. 2019, 32, 100959 Polishing monoclonal antibody using pH-responsive TiO2/polysulfone membrane in dual size-exclusion strategy. 2019, 213, 359-367 New synthesis polyvinyl chloride- graft- acrylamide membrane for wastewater treatment. 2019, Visible Light Photocatalytic Functional TiO2/PVDF Nanofibers for Dye Pollutant Degradation. 2019,	3 11 8

405	Facile modification of polysulfone hollow-fiber membranes via the incorporation of well-dispersed iron oxide nanoparticles for protein purification. 2019 , 136, 47502	14
404	A new type of polyethersulfone based composite nanofiltration membrane decorated by cobalt ferrite-copper oxide nanoparticles with enhanced performance and antifouling property. 2019 , 226, 48-58	36
403	Characterization of CuO-bacterial cellulose nanohybrids fabricated by in-situ and ex-situ impregnation methods. 2019 , 222, 114995	28
402	Polymeric nanocomposite membranes for water treatment: a review. 2019 , 17, 1539-1551	84
401	Influence of Sargassum crassifolium Extract on the Absorption of Magnetic Iron Oxide Nanoparticle via Green Synthesis Route. 2019 , 803, 382-386	2
400	Development of an antibacterial and visible photocatalytic nanocomposite microfiltration membrane incorporated by Ag3PO4/CuZnAl NLDH. 2019 , 226, 218-231	18
399	Application of modified electrospun nanofiber membranes with 日 O nanoparticles in arsenate removal from aqueous media. 2019 , 26, 21993-22009	11
398	Polysulfonelleria Mixed-Matrix Membrane with Enhanced Radiation Resistance Behavior. 2019 , 1, 1854-1865	12
397	Efficient separation of biological macromolecular proteins by polyethersulfone hollow fiber ultrafiltration membranes modified with FeO nanoparticles-decorated carboxylated graphene oxide nanosheets. 2019 , 135, 798-807	25
396	Comparison of NLDH and g-C3N4 nanoplates and formative Ag3PO4 nanoparticles in PES microfiltration membrane fouling: Applications in MBR. 2019 , 147, 443-457	23
395	Highly permeable tubular silicalite-1 membranes for CO capture. 2019 , 676, 305-320	27
394	A review on functional polymer-clay based nanocomposite membranes for treatment of water. 2019 , 379, 120584	64
393	Novel polyphenylsulfone (PPSU)/nano tin oxide (SnO2) mixed matrix ultrafiltration hollow fiber membranes: Fabrication, characterization and toxic dyes removal from aqueous solutions. 2019 , 139, 170-180	35
392	Nanowires versus nanosheets Effects of NiCo2O4 nanostructures on ceramic membrane permeability and fouling potential. 2019 , 215, 644-651	9
391	Enhancing the performance of a hybrid porous polysulfone membrane impregnated with green Ag/AgO additives derived from the Parkia speciosa. 2019 , 163, 301-311	4
390	Tailored polymer nanocomposite membranes based on carbon, metal oxide and silicon nanomaterials: a review. 2019 , 7, 8723-8745	79
389	Impacts of Metal-Organic Frameworks on Structure and Performance of Polyamide Thin-Film Nanocomposite Membranes. 2019 , 11, 13724-13734	61
388	Surface-Modified Conducting Polymer-Based Nanostructured Materials for the Removal of Toxic Heavy Metals from Wastewater. 2019 , 111-144	3

(2019-2019)

387	Cross-linking of dehydrofluorinated PVDF membranes with thiol modified polyhedral oligomeric silsesquioxane (POSS) and pure water flux analysis. 2019 , 581, 362-372	14
386	Hierarchy of Hybrid Materials-The Place of InorganicsOrganics in it, Their Composition and Applications. 2019 , 7, 179	119
385	Graphene oxide quantum dots embedded polysulfone membranes with enhanced hydrophilicity, permeability and antifouling performance. 2019 , 62, 1177-1187	26
384	Properties investigation of polyvinyl alcohol barrier films reinforced by calcium carbonate nanoparticles. 2019 , 6, 055311	11
383	Physical, morphological, antimicrobial and release properties of novel MgO-bacterial cellulose nanohybrids prepared by in-situ and ex-situ methods. 2019 , 128, 848-857	49
382	A review of polymeric nanocomposite membranes for water purification. 2019 , 73, 19-46	151
381	Nanotechnology: The Technology for Efficient, Economic, and Ecological Treatment of Contaminated Water. 2019 , 381-405	1
380	Noble MetalManganese Oxide Hybrid Nanocatalysts. 2019 , 313-340	6
379	Enhancing Morphology and Separation Performance of Polyamide 6,6 Membranes By Minimal Incorporation of Silver Decorated Graphene Oxide Nanoparticles. 2019 , 9, 1216	67
378	A facile synthesis of CuAg nanoparticles on highly porous ZnO/carbon black-cellulose acetate sheets for nitroarene and azo dyes reduction/degradation. 2019 , 130, 288-299	48
377	Metal-oxide nanotubes functional material tailored for membrane water/wastewater treatment. 2019 , 634, 012048	1
376	Synthesis and characterisation of PVDF-co-HFP/sTiO2 composites polymer electrolyte membranes. 2019 , 6, 125354	1
375	Effect of sintering temperature on natural ceramic membrane for aquaculture effluent treatment. 2019 ,	1
374	Fabrication of a Novel Antifouling Polysulfone Membrane with in Situ Embedment of Mxene Nanosheets. 2019 , 16,	29
373	Nanostructured Materials for Treating Aquatic Pollution. 2019,	2
372	Nanostructured Polymer Composites for Water Remediation. 2019 , 275-306	4
371	Novel Physical Methods for Food Preservation. 2019 , 694-704	
370	Enhanced selectivity and performance of heterogeneous cation exchange membranes through addition of sulfonated and protonated Montmorillonite. 2019 , 533, 658-670	22

369	Preparation and characterization of a novel photocatalytic self-cleaning PES nanofiltration membrane by embedding a visible-driven photocatalyst boron doped-TiO2SiO2/CoFe2O4 nanoparticles. 2019 , 209, 764-775	56
368	Modelling of Ion Transport in Electromembrane Systems: Impacts of Membrane Bulk and Surface Heterogeneity. 2019 , 9, 25	25
367	Nanofiltration range desalination by high flux graphene oxide impregnated ultrafiltration hollow fiber mixed matrix membrane. 2019 , 213, 393-405	6
366	Highly adsorptive polysulfone/hydrous iron-nickel-manganese (PSF/HINM) nanocomposite hollow fiber membrane for synergistic arsenic removal. 2019 , 213, 162-175	31
365	High-flux efficient catalytic membranes incorporated with iron-based Fenton-like catalysts for degradation of organic pollutants. 2019 , 573, 493-503	31
364	Novel nanocomposite polyethersulfone- antimony tin oxide membrane with enhanced thermal, electrical and antifouling properties. 2019 , 163, 48-56	30
363	Development of Mixed Matrix Membranes: Incorporation of Metal Nanoparticles in Polymeric Membranes. 2019 , 153-178	10
362	Application of Colloidal Precipitation Method Using Sodium Polymethacrylate as Dispersant for TiO2/PVDF Membrane Preparation and Its Antifouling Properties. 2019 , 59, E422-E434	6
361	Transport and deposition of colloidal particles on a patterned membrane surface: Effect of cross-flow velocity and the size ratio of particle to surface pattern. 2019 , 572, 309-319	18
360	Plasma functionalized hydroxyapatite incorporated in membranes for improved performance of osmotic processes. <i>Desalination</i> , 2019 , 452, 87-93	10.3 7
359	Polyhedral Oligomeric Silsesquioxane (POSS) Nano-Composite Separation Membranes 🖪 Review. 2019 , 21, 1800667	28
358	Nanoengineered Materials for Water and Wastewater Treatments. 2019 , 303-335	3
357	Highly efficient polyurethane membrane based on nanocomposite of sulfonated thiacalix[4] arene-sodium alginate for desalination. 2019 , 205, 353-361	11
356	Integration of silver nanoparticles and microcurrent for water filtration. 2019 , 212, 57-64	9
355	In situ-generated yttrium-based nanoparticle/polyethersulfone composite adsorptive membranes: Development, characterization, and membrane formation mechanism. 2019 , 536, 710-721	12
354	Development of ultrafiltration membrane via in-situ grafting of nano-GO/PSF with anti-biofouling properties. 2019 , 142, 34-43	17
353	Cerium oxide doped nanocomposite membranes for reverse osmosis desalination. 2019 , 218, 974-983	34
352	Silver nanoparticles mediated by Callistemon citrinus extracts and their antimalaria, antitrypanosoma and antibacterial efficacy. 2019 , 273, 615-625	24

351	Polymer Composites Containing Functionalized Nanoparticles and the Environment. 2019 , 437-466	2
350	Cluster Beam Synthesis of Polymer Composites with Nanoparticles. 2019 , 35-76	1
349	Polymeric Materials for Clean Water. 2019 ,	6
348	Polymers for Membrane Filtration in Water Purification. 2019 , 167-190	11
347	Antimicrobial properties of polysulfone membranes modified with carbon nanofibers and silver nanoparticles. 2019 , 223, 39-45	19
346	Antibacterial behaviour of surface modified composite polyamide nanofiltration (NF) membrane by immobilizing Ag-doped TiO nanoparticles. 2020 , 41, 3657-3669	17
345	Study on the effect of m-phenylenediamine as a cross-linking agent on the mechanical, chemical and thermal properties and performance of cellulose acetate/nanodiamond membranes. 2020 , 77, 405-425	4
344	Tunable wicking behavior via titanium oxide embedded in polyacrylonitrile nanofiber strings of yarn. 2020 , 77, 307-322	9
343	Pd/Fe nanoparticle integrated PMAA-PVDF membranes for chloro-organic remediation from synthetic and site groundwater. 2020 , 594,	16
342	Hydrophilic polymeric membrane supported on silver nanoparticle surface decorated polyester textile: Toward enhancement of water flux and dye removal. 2020 , 28, 901-912	9
341	Dynamic photocatalytic membrane coated with ZnIn2S4 for enhanced photocatalytic performance and antifouling property. 2020 , 379, 122379	32
340	A review on two-dimensional metal oxide and metal hydroxide nanosheets for modification of polymeric membranes. 2020 , 82, 31-41	35
339	Separation techniques with nanomaterials. 2020 , 99-158	2
338	Synthesis and characterization of nanocomposite ultrafiltration membrane (PSF/PVP/SiO2) and performance evaluation for the removal of amoxicillin from aqueous solutions. 2020 , 17, 100529	28
337	Synthesis of polyethersulfone (PES)/GO-SiO mixed matrix membranes for oily wastewater treatment. 2020 , 81, 1354-1364	16
336	High-performance printable paper-like composites derived from plastic flexible film wastes. 2020 , 69, 184-191	2
335	Modification of regenerated cellulose membrane by impregnation of silver nanocrystal clusters. 2020 , 137, 48292	1
334	Enhancing the Thermal, Mechanical and Swelling Properties of PVA/Starch Nanocomposite Membranes Incorporating g-C3N4. 2020 , 28, 100-115	19

333	Novel polyethersulfone ultrafiltration membranes modified with Cu/titanate nanotubes. 2020 , 33, 101098	5
332	Recent progress in molecular engineering to tailor organicIhorganic interfaces in composite membranes. 2020 , 5, 433-444	33
331	Engineering arrangement of nanoparticles within nanocomposite membranes matrix: a suggested way to enhance water flux. 2020 , 59, 733-752	2
330	High permeation and antifouling polysulfone ultrafiltration membranes with in situ synthesized silica nanoparticles. 2020 , 22, 100784	13
329	Exfoliated hydrotalcite-modified polyethersulfone-based nanofiltration membranes for removal of lead from aqueous solutions. 2020 , 27, 29725-29736	4
328	CMC as a stabiliser of metal oxide suspensions. 2020 , 27, 2225-2236	14
327	High flux thin-film nanocomposites with embedded boron nitride nanotubes for nanofiltration. 2020 , 597, 117749	24
326	Hydrogenated TiO2 membrane with photocatalytically enhanced anti-fouling for ultrafiltration of surface water. 2020 , 264, 118528	19
325	Experimental and statistical investigation on fabrication and performance evaluation of structurally tailored PAN nanofiltration membranes for produced water treatment. 2020 , 147, 107766	12
324	Clarification of Apple Juice Using New Generation Nanocomposite Membranes Fabricated with TiO2 and Al2O3 Nanoparticles. 2020 , 13, 391-403	6
323	Enhanced CO2/CH4 Separation Performances of Mixed Matrix Membranes Incorporated with Two-Dimensional Ni-Based MOF Nanosheets. 2020 , 8, 642-648	17
322	Superior interfacial design in ternary mixed matrix membranes to enhance the CO2 separation performance. 2020 , 18, 100491	10
321	Graphene-based electro-conductive anti-fouling membranes for the treatment of oil sands produced water. 2020 , 704, 135365	15
320	The preparation of chitosan membrane improved with nanoparticles based on unsaturated fatty acid for using in cancer-related infections. 2020 , 35, 328-350	4
319	Nanocomposite antimicrobials prevent bacterial growth through the enzyme-like activity of Bi-doped cerium dioxide (CeBiO). 2020 , 12, 21344-21358	9
318	Preparation of novel high permeability and antifouling polysulfone-vanillin membrane. <i>Desalination</i> , 2020 , 496, 114759	15
317	Immobilization of TiO2 and TiO2-GO hybrids onto the surface of acrylic acid-grafted polymeric membranes for pollutant removal: Analysis of photocatalytic activity. 2020 , 8, 104422	12
316	Nanocomposite pervaporation membrane for desalination. 2020 , 164, 147-161	14

(2020-2020)

315	Investigating the efficacy of PVDF membranes customized with sulfonated graphene oxide nanosheets for enhanced permeability and antifouling. 2020 , 8, 104426	7
314	Effect of sulfated metal oxides on the performance and stability of sulfonated poly (ether ether ketone) nanocomposite proton exchange membrane for fuel cell applications. 2020 , 156, 104732	8
313	PMMA-TiO Fibers for the Photocatalytic Degradation of Water Pollutants. 2020, 10,	11
312	Versatility of hydrophilic and antifouling PVDF ultrafiltration membranes tailored with polyhexanide coated copper oxide nanoparticles. 2020 , 84, 106367	17
311	Mixed matrix membranes containing aspartic acid functionalized graphene oxide for enhanced oil-water emulsion separation. 2020 , 8, 104269	18
310	Development of high flux nanofiltration membrane using para-amino benzoate ferroxane nanoparticle for enhanced antifouling behavior and dye removal. 2020 , 144, 65-78	16
309	Hybrid Antibacterial and Electro-conductive Coating for Textiles Based on Cationic Conjugated Polymer. 2020 , 12,	3
308	Effect of the Zwitterion, p(MAO-DMPA), on the Internal Structure, Fouling Characteristics, and Dye Rejection Mechanism of PVDF Membranes. 2020 , 10,	O
307	High performance isotropic polyethersulfone membranes for heavy oil-in-water emulsion separation. 2020 , 253, 117467	19
306	Polymer-Based Membranes and Composites for Safe, Potable, and Usable Water: A Survey of Recent Advances. 2020 , 3, 593-608	8
305	Polymers in the Medical Antiviral Front-Line. 2020 , 12,	14
304	Oily wastewater treatment via phase-inverted polyethersulfone-maghemite (PES/Fe2O3) composite membranes. 2020 , 37, 101545	13
303	Wettability, electron work function and corrosion behavior of CoCrFeMnNi high entropy alloy films. 2020 , 400, 126222	11
302	Functionalized Carbon Nanotube-Mediated Transport in Membranes Containing Fixed-Site Carriers for Fast Pervaporation Desalination. 2020 , 12, 50918-50928	5
301	Studies in synthesis and modification of PES membrane and its application for removal of reactive black 5 dye. 2020 , 1-10	3
300	Novel smart, super-hydrophobic, and next generation membranes for thermal induced membrane separation processes. 2020 , 187-202	
299	Hybrid Spider Silk with Inorganic Nanomaterials. 2020 , 10,	4
298	Optimization of Process Parameters for Obtaining Polyethersulfone/Additives Membranes. 2020 , 12, 2180	1

297	Polymer Nanocomposite Ultrafiltration Membranes: the Influence of Polymeric Additive, Dispersion Quality and Particle Modification on the Integration of Zinc Oxide Nanoparticles into Polyvinylidene Difluoride Membranes. 2020 , 10,	5
296	Separation of Benzene/Cyclohexane Mixtures by Pervaporation Using Poly (Ethylene-Co-Vinylalcohol) and Carbon Nanotube-Filled Poly (Vinyl Alcohol-Co-Ethylene) Membranes. 2020 , 7, 68	4
295	Rapid Surface Modification of Ultrafiltration Membranes for Enhanced Antifouling Properties. 2020 , 10,	7
294	Interrelations of Synthesis Method, Polyethylene Glycol Coating, Physico-Chemical Characteristics, and Antimicrobial Activity of Silver Nanoparticles. 2020 , 10,	4
293	Engineered Zero-Dimensional Fullerene/Carbon Dots-Polymer Based Nanocomposite Membranes for Wastewater Treatment. 2020 , 25,	9
292	Nanomaterials with active targeting as advanced antimicrobials. 2020 , 12, e1636	13
291	Development of an activated carbon-based nanocomposite film with antibacterial property for smart food packaging. 2020 , 23, 101124	10
290	Effect of mixed solvents on phase inversion of polymeric membranes. 2020 , 69, 920-932	1
289	Polyethylene film waste-derived porous nanocomposites with superior mechanical robustness and excellent UV resistance as supported substrates for the development of multifunctional materials. 2020 , 55, 10942-10952	1
288	Nanometal and metal oxide-based polymer nanocomposite membranes for pervaporation. 2020 , 231-262	3
287	A novel Polysulfone/Iron-Nickel oxide nanocomposite membrane for removal of heavy metal and protein from water. 2020 , 92, 1990-1998	4
286	Green polymeric nanomaterials for the photocatalytic degradation of dyes: a review. 2020 , 18, 1-12	52
285	Synthetic polymer-based membranes for microbial fuel cells. 2020 , 309-335	
284	Clarification of pomegranate juice using PSF microfiltration membranes fabricated with nano TiO2 and Al2O3. 2020 , 44, e14559	2
283	A novel ternary Pd-GO/N-doped TiO2 hierarchical visible-light sensitive photocatalyst for nanocomposite membrane. 2020 , 37, 946-954	1
282	A highly stable Cu(OH)2-Poly(vinyl alcohol) nanocomposite membrane for dramatically enhanced direct borohydride fuel cell performance. 2020 , 467, 228312	4
281	A critical review of membrane modification techniques for fouling and biofouling control in pressure-driven membrane processes. 2020 , 5, 1	18
280	Improving membrane bioreactor performance through the synergistic effect of silver-decorated graphene oxide in composite membranes. 2020 , 34, 101169	20

(2020-2020)

279	ZrO-TiO Incorporated PVDF Dual-Layer Hollow Fiber Membrane for Oily Wastewater Treatment: Effect of Air Gap. 2020 , 10,	12
278	Effect of (TiO2: ZnO) ratio on the anti-fouling properties of bio-inspired nanofiltration membranes. 2020 , 251, 117280	14
277	Table Optimization of Operating Conditions for a Superwetting Ultrafiltration ZrO2 Ceramic Membrane. 2020 , 146, 04020021	1
276	Flow-Through Catalytic Reactors Based on Metal Nanoparticles Immobilized within Porous Polymeric Gels and Surfaces/Hollows of Polymeric Membranes. 2020 , 12,	9
275	Nanotechnology for Energy and Environmental Engineering. 2020,	3
274	Preparation of positively charged thin-film nanocomposite membranes based on the reaction between hydrolyzed polyacrylonitrile containing carbon nanomaterials and HPEI for water treatment application. 2020 , 242, 116826	26
273	Integration of Zwitterionic Polymer Nanoparticles in Interfacial Polymerization for Ion Separation. 2020 , 2, 1508-1517	14
272	Polymeric Membranes Incorporated With ZnO Nanoparticles for Membrane Fouling Mitigation: A Brief Review. 2020 , 8, 224	29
271	Prediction of long term filtration by coupled gel layer and pore transport model for salt removal using mixed matrix hollow fiber ultrafiltration membrane. 2020 , 250, 117213	5
270	Application of PVDF/HDTMA-modified clinoptilolite nanocomposite membranes in removal of reactive dye from aqueous solution. 2020 , 251, 117294	15
270 269		15
	reactive dye from aqueous solution. 2020 , 251, 117294	15 5
269	reactive dye from aqueous solution. 2020 , 251, 117294 Effect of Peg on Polysulfone Support and Reverse Osmosis Membrane Property. 2020 , 735, 012073 Highly stretchable hydrogels for sensitive pressure sensor and programmable surface patterning	
269 268	reactive dye from aqueous solution. 2020, 251, 117294 Effect of Peg on Polysulfone Support and Reverse Osmosis Membrane Property. 2020, 735, 012073 Highly stretchable hydrogels for sensitive pressure sensor and programmable surface patterning by thermal bubble inkjet technology. 2020, 137, 49146 Influence of TiO2 charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration	5
269268267	Effect of Peg on Polysulfone Support and Reverse Osmosis Membrane Property. 2020, 735, 012073 Highly stretchable hydrogels for sensitive pressure sensor and programmable surface patterning by thermal bubble inkjet technology. 2020, 137, 49146 Influence of TiO2 charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration process. 2020, 832, 153986 Effect of nano-TiO2 loading in polysulfone membranes on the removal of pollutant following	5
269268267266	Effect of Peg on Polysulfone Support and Reverse Osmosis Membrane Property. 2020, 735, 012073 Highly stretchable hydrogels for sensitive pressure sensor and programmable surface patterning by thermal bubble inkjet technology. 2020, 137, 49146 Influence of TiO2 charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration process. 2020, 832, 153986 Effect of nano-TiO2 loading in polysulfone membranes on the removal of pollutant following natural-rubber wastewater treatment. 2020, 35, 101190	5 3 27
269268267266265	Effect of Peg on Polysulfone Support and Reverse Osmosis Membrane Property. 2020, 735, 012073 Highly stretchable hydrogels for sensitive pressure sensor and programmable surface patterning by thermal bubble inkjet technology. 2020, 137, 49146 Influence of TiO2 charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration process. 2020, 832, 153986 Effect of nano-TiO2 loading in polysulfone membranes on the removal of pollutant following natural-rubber wastewater treatment. 2020, 35, 101190 Advanced porous polymer membranes from self-assembling block copolymers. 2020, 102, 101219	5 3 27 63

261	Atomic layer deposition and electrospinning as membrane surface engineering methods for water treatment: a short review. 2020 , 6, 1765-1785	7
260	Stabilization of Various Zero-Valent Metal Nanoparticles on a Superabsorbent Polymer for the Removal of Dyes, Nitrophenol, and Pathogenic Bacteria. 2020 , 5, 7379-7391	26
259	Application of functional single-element and double-element oxide nanoparticles for the development of nanocomposite membranes. 2020 , 113-144	1
258	Effects of water in the heterogeneous catalytic valorization of levulinic acid into Evalerolactone and its derivatives. 2020 , 22, 3013-3027	25
257	A Review on Current Development of Membranes for Oil Removal from Wastewaters. 2020, 10,	22
256	Synthesis and antibacterial activity of silver-copper nano-composites formed by microwave assisted chemical reduction. 2021 , 41, 525-529	2
255	Fungal chitin-glucan nanopapers with heavy metal adsorption properties for ultrafiltration of organic solvents and water. 2021 , 253, 117273	16
254	Recent development of graphene oxide-based membranes for oilwater separation: A review. 2021 , 258, 118000	29
253	High-flux PVDF/PVP nanocomposite ultrafiltration membrane incorporated with graphene oxide nanoribbones with improved antifouling properties. 2021 , 138, 49718	21
252	Synthesis of polymer nanoparticles based highly selective membranes by mini-emulsion polymerization for dehydration of 1,4 dioxane and recovery of ethanol from water by pervaporation. 2021 , 617, 118646	6
251	The influence of nanoparticles on phase formation and stability of liquid crystals and liquid crystalline polymers. 2021 , 321, 114849	13
250	Photocatalytic antifouling properties of novel PVDF membranes improved by incorporation of SnO2-GO nanocomposite for water treatment. 2021 , 259, 118184	10
249	MXene versus graphene oxide: Investigation on the effects of 2D nanosheets in mixed matrix membranes for CO2 separation. 2021 , 620, 118850	26
248	Photocatalytic and antifouling properties of electrospun TiO2 polyacrylonitrile composite nanofibers under visible light. 2021 , 264, 114913	24
247	Performance of the Crosslinked PVA Coated PES-TiO2 Nano Hybrid Membrane for the Treatment of Pretreated Natural Rubber Wastewater Involving Sequential Adsorption (Dzonation Processes. 2021 , 9, 104855	7
246	Metal-organic framework/zeolite nanocrystal/polyvinylidene fluoride composite ultrafiltration membranes with flux/antifouling advantages. 2021 , 260, 124128	15
245	High-flux TFN nanofiltration membranes incorporated with Camphor-AlO nanoparticles for brackish water desalination. 2021 , 265, 128999	24
244	Increased performance and antifouling of mixed-matrix membranes of cellulose acetate with hydrophilic nanoparticles of polydopamine-sulfobetaine methacrylate for oil-water separation. 2021 , 620, 118881	37

243	Thermal, mechanical and morphological properties of polyurethane⊠irconia loading. 2021 , 16, 454-462	O
242	Idiosyncratic cellulose acetate nanocomposite membranes: synthesis and performance control study for desalination. 2021 , 42, 1336-1352	1
241	Mixed matrix membranes for hydrocarbons separation and recovery: a critical review. 2021 , 37, 363-406	13
240	Differentiating Solutes with Precise Nanofiltration for Next Generation Environmental Separations: A Review. 2021 , 55, 1359-1376	36
239	Nanomaterials for membrane synthesis: Introduction, mechanism, and challenges for wastewater treatment. 2021 , 537-553	2
238	Nanocomposite/nanoparticle in membrane-based separation for water remediation: Case study. 2021 , 929-955	
237	Membrane Preparation. 2021 , 33-87	
236	Hybrid membrane technology: an alternative to industrial wastewater treatment. 2021 , 481-501	8
235	Contemporary Developments in Waste Water Treatment Technologies. 2021, 196-219	
234	Green Fiber Thermoplastic Composites. 2021 , 35-62	
234	Green Fiber Thermoplastic Composites. 2021, 35-62 Wound dressing applications of nano-biofilms. 2021, 247-268	1
		1
233	Wound dressing applications of nano-biofilms. 2021 , 247-268	
233	Wound dressing applications of nano-biofilms. 2021, 247-268 Nanometals-Containing Polymeric Membranes for Purification Processes. 2021, 14, Nanoparticles functionalized ceramic membranes: fabrication, surface modification, and	6
233 232 231	Wound dressing applications of nano-biofilms. 2021, 247-268 Nanometals-Containing Polymeric Membranes for Purification Processes. 2021, 14, Nanoparticles functionalized ceramic membranes: fabrication, surface modification, and performance. 2021, 28, 12256-12281	6
233 232 231 230	Wound dressing applications of nano-biofilms. 2021, 247-268 Nanometals-Containing Polymeric Membranes for Purification Processes. 2021, 14, Nanoparticles functionalized ceramic membranes: fabrication, surface modification, and performance. 2021, 28, 12256-12281 Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. 2021, 1603-1625 In situ chemical oxidation: peroxide or persulfate coupled with membrane technology for	7
233 232 231 230 229	Wound dressing applications of nano-biofilms. 2021, 247-268 Nanometals-Containing Polymeric Membranes for Purification Processes. 2021, 14, Nanoparticles functionalized ceramic membranes: fabrication, surface modification, and performance. 2021, 28, 12256-12281 Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. 2021, 1603-1625 In situ chemical oxidation: peroxide or persulfate coupled with membrane technology for wastewater treatment. 2021, 9, 11944-11960	7

225 Introduction. **2021**, 1-32

224	Physicochemical and electrochemical characterization of Nafion-type membranes with embedded silica nanoparticles: Effect of functionalization. 2021 , 370, 137689	2
223	Effect of silica nanoparticles on carbon dioxide separation performances of PVA/PEG cross-linked membranes. 2021 , 75, 3131-3153	10
222	Preparation and Characterization of Nanoparticle-Doped Polymer Inclusion Membranes. Application to the Removal of Arsenate and Phosphate from Waters. 2021 , 14,	1
221	Novel PVDF-PVP Hollow Fiber Membrane Augmented with TiO Nanoparticles: Preparation, Characterization and Application for Copper Removal from Leachate. 2021 , 11,	9
220	A Review on Polymer Nanocomposites and Their Effective Applications in Membranes and Adsorbents for Water Treatment and Gas Separation. 2021 , 11,	38
219	Influence of deposited amine-functionalized Si-MCM-41 in polyacrylonitrile electrospun membranes applied for separation of water in oil emulsions. 2021 , 138, 50737	1
218	Critical entry pressure of a droplet pinning over multitude of pore openings. 2021 , 33, 032114	5
217	Graphene-Based Membranes for Water and Wastewater Treatment: A Review. 2021 , 4, 3274-3293	30
216	Kinetics studies on free radical scavenging property of ceria in polysulfonederia radiation resistant mixed-matrix membrane. 2021 , 19, 779-785	1
215	Spray-dispersion of ultra-small EMT zeolite crystals in thin-film composite membrane for high-permeability nanofiltration process. 2021 , 622, 119045	10
214	Effect of Current Density Distribution in the Zinc Plating Process. 316, 839-844	
213	Ball-milled Cu2S nanoparticles as an efficient additive for modification of the PVDF ultrafiltration membranes: Application to separation of protein and dyes. 2021 , 9, 105115	4
212	Chitosan-Based Nanocomposite Polymeric Membranes for Water Purification-A Review. 2021 , 14,	12
211	The assessment of apoptosis, toxicity effects and anti-leishmanial study of Chitosan/CdO core-shell nanoparticles, eco-friendly synthesis and evaluation. 2021 , 14, 103085	3
210	Preparation and characterization of novel Polyamide-6/Chitosan blend dense membranes for desalination of brackish water. 1	4
209	Hydrogen separation using polybenzimidazole membrane with palladium nanoparticles stabilized by polyvinylpyrrolidone. 2021 , 45, 15171-15181	2
208	Accessible Silver-Iron Oxide Nanoparticles as a Nanomaterial for Supported Liquid Membranes. 2021 , 11,	14

(2021-2021)

207	Ongoing progress on novel nanocomposite membranes for the separation of heavy metals from contaminated water. 2021 , 270, 129421	53
206	Polyethersulfone membranes modified with CZTS nanoparticles for protein and dye separation: Improvement of antifouling and self-cleaning performance. 2021 , 616, 126230	5
205	Optimization of MCM-41 Mesoporous Material Mixed Matrix Polyethersulfone Membrane for Dye Removal. 2021 , 11,	O
204	Promoting the separation and antifouling properties of polyethersulfone-based nanofiltration membrane by incorporating of cobalt ferrite/activated carbon composite nanoparticles. 2021 , 169, 204-213	2
203	Polymer supported copper complexes/nanoparticles for treatment of environmental contaminants. 2021 , 330, 115668	6
202	Engineered polyethersulfone membrane for well-dispersed silver nanoparticle impregnation at high loading: high water permeate flux and biofouling prevention. 2021 , 84, 27-42	1
201	Study of Polyvinyl Alcohol-SiO Nanoparticles Polymeric Membrane in Wastewater Treatment Containing Zinc Ions. 2021 , 13,	10
200	Polyethyleneimine (PEI) grafted silica nanoparticles for polyethersulfone membranes modification and their outlooks for wastewater treatment - a review. 1-25	7
199	Nanoengineered Polysaccharide-Based Adsorbents as Green Alternatives for Dye Removal from Wastewater.	
198	Fabrication of a novel PVDF based silica coated multi-walled carbon nanotube embedded membrane with improved filtration performance. 1-26	2
197	Antiviral Nanomaterials for Designing Mixed Matrix Membranes. 2021 , 11,	4
197	Antiviral Nanomaterials for Designing Mixed Matrix Membranes. 2021, 11, Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and application as an efficient adsorbent for solid-phase extraction of heavy metals. 1	1
	Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and	
196	Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and application as an efficient adsorbent for solid-phase extraction of heavy metals. 1 Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big	1
196	Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and application as an efficient adsorbent for solid-phase extraction of heavy metals. 1 Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. 2021, 26,	6
196 195 194	Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and application as an efficient adsorbent for solid-phase extraction of heavy metals. 1 Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. 2021, 26, A Comprehensive Review of Polymeric Wastewater Purification Membranes. 2021, 5, 162 ZnO Nanoparticle/Poly(vinyl alcohol) Nanocomposites via Microwave-Assisted Sol©el Synthesis for	1 6 7
196 195 194	Green and simple synthesized graphene/MnO2 quantum dot nanocomposite: characterization and application as an efficient adsorbent for solid-phase extraction of heavy metals. 1 Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. 2021, 26, A Comprehensive Review of Polymeric Wastewater Purification Membranes. 2021, 5, 162 ZnO Nanoparticle/Poly(vinyl alcohol) Nanocomposites via Microwave-Assisted Solfiel Synthesis for Structural Materials, UV Shielding, and Antimicrobial Activity. 2021, 4, 7371-7383 Fabrication of Gum Arabic-Graphene (GGA) Modified Polyphenylsulfone (PPSU) Mixed Matrix	1 6 7 10

189	A Mini-Review of Enhancing Ultrafiltration Membranes (UF) for Wastewater Treatment: Performance and Stability. 2021 , 5, 34	8
188	Development and characterization of chitosan and acrylic acid-based novel biodegradable polymeric films for soil conditioning. 2021 , 182, 950-958	1
187	Nanoporous Alumina Membranes for Sugar Industry: An Investigation of Sintering Parameters Influence onUltrafiltration Performance. 2021 , 13, 7593	1
186	Role of polydopamine in the enhancement of binding stability of TiO2 nanoparticles on polyethersulfone ultrafiltration membrane. 2021 , 622, 126694	3
185	Polyelectrolytes as Building Blocks for Next-Generation Membranes with Advanced Functionalities. 2021 , 3, 4347-4374	16
184	Photocatalytic Nanofiber Membranes for the Degradation of Micropollutants and Their Antimicrobial Activity: Recent Advances and Future Prospects. 2021 , 11,	6
183	Microgels as Soluble Scaffolds for the Preparation of Noble Metal Nanoparticles Supported on Nanostructured Metal Oxides. 2021 , 4, 8343-8351	1
182	Thin film nanocomposite (Tfnc) membranes: Future direction of Tfnc synthesis for alcohol dehydration. 2021 , 25, 101165	O
181	In situ generated silver nanoparticles embedded in polyethersulfone nanostructured membranes (Ag/PES) for antimicrobial decontamination of water. 2021 , 96, 3185	O
180	Application of graphitic carbon nitrides in developing polymeric membranes: A review. 2021 , 173, 234-252	6
179	Physicochemical characteristics of polysulfone nanofiber membranes with iron oxide nanoparticles via electrospinning. 51661	O
178	Application of Metal Oxide Nanoparticles and their Economic Impact. 2021 , 29-65	
177	Antibacterial thin film nanocomposite forward osmosis membranes produced by in-situ reduction of selenium nanoparticles. 2021 , 153, 403-412	O
176	Aminoclay-Graphene Oxide Composite for Thin-Film Composite Reverse Osmosis Membranes with Unprecedented Water Flux and Fouling Resistance. 2100533	1
175	Synthesis and characterization of nano zerovalent iron-kaolin clay (nZVI-Kaol) composite polyethersulfone (PES) membrane for the efficacious AsO removal from potable water samples. 2022 , 288, 132405	7
174	The antibacterial activity of poly(vinyl chloride) membrane impregnated with silver nanoparticles. 2021 ,	O
173	Incorporation of graphene oxide-based nanocomposite in the polymeric membrane for water and wastewater treatment: A review on recent development. 2021 , 9, 105994	15
172	Investigation of fouling of surface modified Polyvinyl chloride hollow fiber membrane bioreactor via Zinc oxide-nanoparticles under coagulant for municipal wastewater treatment. 2021 , 9, 105835	4

171	The surface modification of ultrafiltration membrane with silver nanoparticles using Verbascum thapsus leaf extract using green synthesis phenomena. 2021 , 26, 101291	2
170	Synergetic influence of F-MWCNTS on polyvinylpyrrolidone sodium alginate composite membrane for reverse osmosis. 2021 , 9, 106085	2
169	Recent innovations of nanotechnology in water treatment: A comprehensive review. 2021 , 342, 126000	11
168	Removal of organic pollutants from rubber wastewater using hydrophilic nanocomposite rGO-ZnO/PES hybrid membranes. 2021 , 9, 106421	4
167	Incorporation of barium titanate nanoparticles in piezoelectric PVDF membrane. 2021, 640, 119861	3
166	Novel application of ion exchange membranes for preparing effective silver and copper based antibacterial membranes. 2022 , 287, 132131	6
165	Silver Nanoparticles with Natural Polymers. 2021 , 139-157	О
164	Incorporation of Cellulose Nanomaterials into Membrane Materials for Water Treatment. 2021 , 3581-3601	
163	Bi2O3/nylon multilayered nanocomposite membrane for the photocatalytic inactivation of waterborne pathogens and degradation of mixed organic pollutants. 2021 , 8, 342-355	3
162	Nanocomposite membranes for heavy metal removal. 2021 , 575-603	2
161	Investigation of characteristic and performance of polyvinyl chloride ultrafiltration membranes modified with silica-oriented multi walled carbon nanotubes. 2020 , 137, 49397	5
160	Applications of polymer films with gas-phase aggregated nanoparticles. 2020 , 15, 119-162	4
159	Antibacterial polymeric membranes: a short review. 2018 , 4, 1078-1104	41
158	Synthesis, characterization and applications of metallic nanoparticles/rGO blended poly methyl methacrylate membranes for the efficient removal of Cd2+ from model and real wastewater. 2020 , 44, 15593-15608	13
157	Perspective and Roadmap of Energy-Efficient Desalination Integrated with Nanomaterials. 2018 , 47, 124-141	16
156	Characterization of polymer inclusion membrane containing Aliquat 336 as a carrier. 2015 , 6, 95-102	5
155	Low - Temperature Sintering of Porous Ceramics via Sodium Borate Addition. 2019 , 16, 48-55	3
154	Nanotecnologii una alternativa para el tratamiento de aguas residuales: Avances, Ventajas y Desventajas. 2018 , 9, 52-61	2

153	Zein Coated Zinc Oxide Nanoparticles: Fabrication and Antimicrobial Evaluation as Dental Aid. 2018 , 14, 1051-1059	4
152	Fabrication and Characterization of Porous Non-Woven Carbon Based Highly Sensitive Gas Sensors Derived by Magnesium Oxide. 2012 , 13, 254-259	12
151	Blood apheresis technologies \Box critical review on challenges towards efficient blood separation and treatment.	2
150	Influence of Titanium Dioxide Particles Percentage in Modifying Layer on Surface Properties and Current-Voltage Characteristics of Composite Cation-Exchange Membranes. 2021 , 3, 334-343	O
149	A Review of Commercial Developments and Recent Laboratory Research of Dialyzers and Membranes for Hemodialysis Application. 2021 , 11,	6
148	Fabrication of visible-light assisted TiO2-WO3-PANI membrane for effective reduction of chromium (VI) in photocatalytic membrane reactor. 2021 , 24, 102023	1
147	3D printing for membrane desalination: Challenges and future prospects. <i>Desalination</i> , 2021 , 520, 11536£0.3	7
146	Encyclopedia of Membranes. 2015 , 1-3	
145	Synthesis of Nanocomposite Membranes. 2015 , 69-88	
144	Encyclopedia of Membranes. 2016 , 1884-1886	О
144	Encyclopedia of Membranes. 2016 , 1884-1886 Chapter 5 Characterization of Nanofiltration Membrane. 2016 , 95-138	O
		O
143	Chapter 5 Characterization of Nanofiltration Membrane. 2016 , 95-138	1
143	Chapter 5 Characterization of Nanofiltration Membrane. 2016 , 95-138 Structural and Morphological Investigations on Coreshell Hybrid Microparticles. 2018 , 16, 17-19	
143 142 141	Chapter 5 Characterization of Nanofiltration Membrane. 2016, 95-138 Structural and Morphological Investigations on Coreshell Hybrid Microparticles. 2018, 16, 17-19 Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. 2019, 1-23 Mixed-matrix membranes incorporated with functionalized nanomaterials for water applications.	1
143 142 141 140	Chapter 5 Characterization of Nanofiltration Membrane. 2016, 95-138 Structural and Morphological Investigations on Coreshell Hybrid Microparticles. 2018, 16, 17-19 Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. 2019, 1-23 Mixed-matrix membranes incorporated with functionalized nanomaterials for water applications. 2020, 15-51 Preparation and Application of Palladium Nanoparticle Impregnated Chloromethylated Polysulfone	1
143 142 141 140	Chapter 5 Characterization of Nanofiltration Membrane. 2016, 95-138 Structural and Morphological Investigations on Coreshell Hybrid Microparticles. 2018, 16, 17-19 Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. 2019, 1-23 Mixed-matrix membranes incorporated with functionalized nanomaterials for water applications. 2020, 15-51 Preparation and Application of Palladium Nanoparticle Impregnated Chloromethylated Polysulfone Matrix as an Efficient Catalytic Membrane for Oxidation of Alcohols. 2021, 235, 483-496	1

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microalgal cultivation. 1

Nanoporous Polymeric Membranes for Hydrogen Separation. 2020, 355-376 135 Incorporation of Cellulose Nanomaterials into Membrane Materials for Water Treatment. 2021, 1-21 134 Prospects of nanocomposite membranes in commercial scale. 2020, 457-473 133 Color removal from wastewater using a synthetic high-performance antifouling 132 GO-CPTMS@Pd-TKHPP/polyether sulfone nanofiltration membrane. 2021, 1 Polymer nanocomposite membranes and their application for flow catalysis and photocatalytic 131 5 degradation of organic pollutants. 2021, 22, 100600 Recovery of Heavy Metals by Membrane Adsorbers. 2021, 143-170 130 Polymeric nanocomposites. 2021, 377-392 129 Proton exchange membrane for microbial fuel cells. 2022, 25-53 128 Solution combustion synthesis of rGO-Fe2O3 hybrid nanofiller for linseed oil based eco-friendly 127 \circ anticorrosion coating. **2022**, 633, 127863 126 Gas separation and filtration membrane applications of polymer/graphene nanocomposites. 2022, 197-222 Progress in the modification of polyvinyl chloride (PVC) membranes: A performance review for 125 4 wastewater treatment. 2022, 45, 102466 Active Packaging Systems Based on Metal and Metal Oxide Nanoparticles. 2022, 143-181 124 \circ Influence of Preparation Temperature on the Properties and Performance of Composite PVDF-TiO 123 1 Membranes. 2021, 11, The Impacts of Iron Oxide Nanoparticles on Membrane Properties for Water and Wastewater 122 Applications: a Review. 1 Organo-Functionalization: An Effective Method in Enhancing the Separation and Antifouling Performance of Thin-Film Nanocomposite Membranes by Improving the Uniform Dispersion of 121 \circ Palygorskite Nanoparticles. 2021, 11, Effect of the bio-inspired modification of low-cost membranes with TiO:ZnO as microbial fuel cell 120 membranes. 2021, 291, 132840 Nanobiocatalysts and photocatalyst in dye degradation. 2021, 119

Advances in the synthesis and applications of nanomaterials to increase CO2 biofixation in

117	Investigating the role of copper and zinc oxide nanomaterials in abatement of biofouling of ultrafiltration membrane in dynamic conditions. 51879		1
116	Enhancing water flux and antifouling properties of PES hollow fiber membranes via incorporation of surface-functionalized Fe3O4 nanoparticles.		1
115	Radiation grafting of vapour grown carbon nanofibers on cellulose acetate/halloysite nanotubes matrix membrane for MgSO4 rejection. 2021 , 9, 106804		1
114	Recent advances of loose nanofiltration membranes for dye/salt separation. 2021 , 285, 120228		7
113	Functionalized nanodiamonds in polyurethane mixed matrix membranes for carbon dioxide separation. 2021 , 13, 100243		1
112	Fabrication and characterization of high-performance forward-osmosis membrane by introducing manganese oxide incited graphene quantum dots 2021 , 305, 114335		3
111	Municipal-to-Industrial Water Reuse via Multi-Stage and Multi-Pass Reverse Osmosis Systems: A Step from Water Scarcity towards Sustainable Development. 2022 , 14, 362		2
110	Progress in 2D Nanomaterial Composites Membranes for Water Purification and Desalination. 2022 , 125-148		1
109	Study on Treatment of Low Concentration Oily Wastewater Using Alumina Ceramic Membranes. 2022 , 12, 127		O
108	Nanostructured catalytic membranes for water filtration. 2022 , 389-412		1
107	Study Effect of nAg Particle Size on the Properties and Antibacterial Characteristics of Polysulfone Membranes 2022 , 12,		7
106	Comprehensive Analysis of Spinel-Type Mixed Metal Oxide-Functionalized Polysulfone Membranes toward Fouling Resistance and Dye and Natural Organic Matter Removal 2022 , 7, 4859-4867		1
105	Advances in nanocomposite and nanostructured chitosan membrane adsorbents for environmental remediation: A review. <i>Desalination</i> , 2022 , 527, 115565	10.3	7
104	Factors influencing pressure-driven membrane-assisted volatile fatty acids recovery and purification-A review 2022 , 817, 152993		7
103	Functionalization of cellulosic hydrogels with CuO@CuO nanospheres: Toward antifouling applications 2022 , 282, 119136		1
102	Metal oxidelarbon composites for supercapacitor applications. 2022 , 133-177		O
101	Design and synthesis of metal oxidepolymer composites. 2022 , 101-128		
100	Polymer Nanocomposite Membranes for Water Remediation. 2022 , 227-279		

99 Polymer-based nano-enhanced microfiltration/ultrafiltration membranes. **2022**, 81-118

98	Nanomaterials in biofuel cells. 2022 , 411-444	
97	Recent Progress in Microfiltration/Ultrafiltration Membranes for Separation of Oil and Water Emulsions 2022 , e202100320	3
96	Nitrogenated Graphene Oxide-Decorated Metal Sulfides for Better Antifouling and Dye Removal 2022 , 7, 9674-9683	1
95	Enhancing antifouling and separation characteristics of carbon nanofiber embedded poly ether sulfone nanofiltration membrane. 1	
94	Rapid and Efficient Removal of Anionic Dye in Water Using a Chitosan-Coated Iron Oxide-Immobilized Polyvinylidene Fluoride Membrane 2022 , 7, 8759-8766	2
93	Synthetic subnanochannels in porous aromatic frameworks accelerate selective water permeation in membrane desalination. 1	2
92	Preparation of Nano-TiO-Modified PVDF Membranes with Enhanced Antifouling Behaviors via Phase Inversion: Implications of Nanoparticle Dispersion Status in Casting Solutions 2022 , 12,	4
91	Tailoring microstructure of polysulfone membranes via novel hexagonal ZnO particles to achieve improved filtration performance. 2022 , 651, 120462	0
90	Recent advances in dual-filler mixed matrix membranes. 2020,	
89	Module Design and Membrane Materials. 2022 , 99-142	0
88	A Review on the Use of Membrane Technology Systems in Developing Countries 2021 , 12,	4
87	Sustainable membranes with FNMs for biomedical applications. 2022, 205-244	
86	Theoretical concepts of membrane-nanomaterial composites. 2022 , 37-80	
85	Tailoring the Barrier Properties of PLA: A State-of-the-Art Review for Food Packaging Applications 2022 , 14,	7
84	Sustainable Modification of Polyethersulfone Membrane with Poly(Maleic Anhydride-Co-Glycerol) as Novel Copolymer. 2022 , 14, 1207	O
83	Functional charcoal based nanomaterial with excellent colloidal property for fabrication of polyethersulfone ultrafiltration membrane with improved flux and fouling resistance. 2022 , 126167	O
82	Multiparameter Neural Network Modeling of Facilitated Transport Mixed Matrix Membranes for Carbon Dioxide Removal 2022 , 12,	1

81	Fenton Assisted Ultrafiltration for Removal of COD of Reactive Black 5 Dye from Synthetic Wastewater. 2022 , 585-602		
80	Polymeric Membranes Nanocomposites as Effective Strategy for Dye Removal. 2022 , 23-52		O
79	Polymers in Water Purification. 2022 , 167-209		
78	Nanotechnology for Clean and Safe Water: (A Review). 2022 , 38, 227-237		
77	Organic matter removal and antifouling performance of sulfonated polyaniline nanofiltration (S-PANI NF) membranes. 2022 , 107906		О
76	A sacrificial protective layer as fouling control strategy for nanofiltration in water treatment 2022 , 219, 118554		1
75	Study of Wettability of Polyethylene Membranes for Food Packaging. 2022, 14, 5863		О
74	The Effect of Agglomeration on Arsenic Adsorption Using Iron Oxide Nanoparticles 2022 , 12,		O
73	Nanoparticles and Their Role in Environmental Decontamination Technologies. 2022, 127-140		
72	SMN-based catalytic membranes for environmental catalysis. 2022 , 171-196		
71	Ultrafiltration Membranes Functionalized with Copper Oxide and Zwitterions for Fouling Resistance. 2022 , 12, 544		0
70	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. 2022 , 120753		O
69	Materials for energy conversion in membrane distillation localized heating: Review, analysis and future perspectives of a paradigm shift. 2022 , 167, 112702		О
68	Energy-Efficient AnMBRs Technology for Treatment of Wastewaters: A Review. 2022 , 15, 4981		О
67	Hybrid NF and UF membranes tailored using quaternized polydopamine for enhanced removal of salts and organic pollutants from water. <i>Desalination</i> , 2022 , 539, 115954	10.3	О
66	A review on fabrication, characterization of membrane and the influence of various parameters on contaminant separation process. 2022 , 306, 135629		1
65	Development of Ti2AlN MAX phase/cellulose acetate nanocomposite membrane for removal of dye, protein and lead ions. 2022 , 119913		1
64	Adsorptive Membrane for Boron Removal: Challenges and Future Prospects. 2022 , 12, 798		O

63	Engineered biochar supported layered double hydroxide-cellulose nanocrystals composites: Synthesis, characterization and azo dye removal performance. 2022 , 136054	О
62	Recent advances of nanocomposite membranes using layer-by-layer assembly. 2022 , 120926	3
61	Purifying water with silver nanoparticles (AgNPs)-incorporated membranes: Recent advancements and critical challenges. 2022 , 222, 118901	2
60	Toward an Understanding of the Role of Fabrication Conditions During Polymeric Membranes Modification: A Review of the Effect of Titanium, Aluminum, and Silica Nanoparticles on Performance.	
59	Wetting of photoplasmonic PVDF/silver membranes in photothermal membrane distillation: Identification of wetting mechanisms and comparison of wetting dynamics. 2022 , 540, 116019	1
58	Improving the permselectivity of asymmetric isoporous membranes by blending the micro-sized metal-organic frameworks(MOFs) crystals with block copolymer. 2022 , 661, 120895	O
57	Reusable composite membranes for highly efficient chromium removal from real water matrixes. 2022 , 307, 135922	1
56	Cof-Based Mmms with Light-Responsive Properties Generating Unexpected Surface Segregation for Efficient So2/N2 Separation.	Ο
55	Treatment and Minimization of Waste in Baker ¶Yeast Industry. 2022, 391-470	О
54	Graphene oxide-based nanofiltration membranes for separation of heavy metals. 2023, 231-288	O
53	High entropy alloy coatings for biomedical applications: A review. 2023, 1, 100009	O
52	Antibacterial Activity of Silver Nanoflake (SNF)-Blended Polysulfone Ultrafiltration Membrane. 2022 , 14, 3600	O
51	A reverse-selective ion exchange membrane for the selective transport of phosphates via an outer-sphere complexation diffusion pathway.	О
50	Cellulose Triacetate-Based Mixed-Matrix Membranes with MXene 2D Filler ©O2/CH4 Separation Performance and Comparison with TiO2-Based 1D and 0D Fillers. 2022 , 12, 917	O
49	Antimicrobial Applications of Nanoparticles. 2022 , 517-552	0
48	A transport channel-regulated graphene oxide-based composite membranes for salt rejection.	O
47	Synthesis of advanced multifunctional biopolymeric membrane via emulsion templating method. 2022 ,	0
46	Synthesis of Graphene-Based Nanocomposites for Environmental Remediation Applications: A Review. 2022 , 27, 6433	2

45	Instant in situ formation of a polymer film at the waterBil interface. 2022, 12, 31215-31224	1
44	Prospects of Polymeric Nanocomposite Membranes for Water Purification and Scalability and their Health and Environmental Impacts: A Review. 2022 , 12, 3637	2
43	Obtaining and Characterizing the Osmium Nanoparticles/nDecanol Bulk Membrane Used for the pNitrophenol Reduction and Separation System. 2022 , 12, 1024	2
42	Altering Substrate Properties of Thin Film Nanocomposite Membrane by Al2O3 Nanoparticles for Engineered Osmosis Process. 1-24	O
41	Performance evaluation of amino-functionalized mesoporous/PES nanofiltration membrane in anionic dye removal from aqueous solutions. 2022 , 12,	О
40	COF-based MMMs with light-responsive properties generating unexpected surface segregation for efficient SO2/N2 separation. 2023 , 665, 121109	1
39	Rapid co-deposition of dopamine and polyethyleneimine triggered by CuSO4/H2O2 oxidation to fabricate nanofiltration membranes with high selectivity and antifouling ability. 2023 , 305, 122409	О
38	Lidocaine- and chloramphenicol-loaded nanoparticles embedded in a chitosan/hyaluronic acid/glycerol matrix: Drug-eluting biomembranes with potential for guided tissue regeneration. 4,	O
37	Preparation of highly selective polyether sulfone /polym-phenylenediamine membrane for recovery of Au(III) from aqueous solutions. 2023 , 189, 452-460	О
36	Spraying Fluorinated Silicon Oxide Nanoparticles on CuONPs@CF-PVDF Membrane: A Simple Method to Achieve Superhydrophobic Surfaces and High Flux in Direct Contact Membrane Distillation. 2022 , 14, 5164	1
35	Enhanced the antifouling and antibacterial performance of PVC / ZnO-CMC nanoparticles ultrafiltration membrane. 2023 , 140,	О
34	Ultra-hydrophilic nanofiltration membranes fabricated via punching in the HTO nanosheets. 2023 , 6,	O
33	Preparation of Mixed Matrix Membranes Containing COF Materials for CO ₂ Removal from Natural Gas/Review. 938, 151-162	0
32	A Maximization of the Proton Conductivity of Sulfonated Poly(Ether Ether Ketone) with Grafted Segments Containing Multiple, Flexible Propanesulfonic Acid Groups. 2200926	O
31	Recent Advances on the Fabrication of Antifouling Phase-Inversion Membranes by Physical Blending Modification Method. 2023 , 13, 58	2
30	Evaluation of the Hybrid Membrane of ZnO Particles Supported in Cellulose Acetate for the Removal of Lead. 2023 , 13, 123	O
29	Magnetic composite membrane roll column for rapid and high efficiency separation of antibodies. 2023 , 309, 123107	1
28	Recent advance in biomass membranes: Fabrication, functional regulation, and antimicrobial applications. 2023 , 305, 120537	2

27	Influence of defects upon mechanical properties of oxide materials. 2023, 253-280	О
26	Polymer-based composites for wastewater treatment. 2023 , 137-159	O
25	Principles of electrospinning and nanofiber membranes. 2023 , 3-25	0
24	Development of bioelectrochemical systems integrated nanocomposite membranes for wastewater management. 2023 , 191-217	О
23	Advanced Polymeric Nanocomposite Membranes for Water and Wastewater Treatment: A Comprehensive Review. 2023 , 15, 540	О
22	Current trends of nano-enhanced polymeric membranes for water and wastewater reclamation. 2023 , 63-98	O
21	Carboxylated Graphene Oxide (c-GO) Embedded ThermoPlastic Polyurethane (TPU) Mixed Matrix Membrane with Improved Physicochemical Characteristics. 2023 , 13, 144	О
20	Combined effects of nanoparticle and stretch-induced orientation on crystal structure and properties of UHMWPE / TiO 2 composite microporous membranes.	0
19	Atomic layer deposition of TiO2 on porous polysulfone hollow fibers membranes for water treatment. 2023 , 312, 123377	О
18	Tailoring properties and performance of thin-film composite membranes by salt additives for water treatment: A critical review. 2023 , 234, 119821	0
17	Effect of functionalized nanodiamonds and surfactants mediation on the nanofiltration performance of polyamide thin-film nanocomposite membranes. 2023 , 555, 116540	0
16	Algal biochar of unique structure as a robust alternative to manipulate mixed-matrix membranes performance and fouling resistance. 2023 , 18, 101043	0
15	The Fe3O4@UiO-66-NH2/PVDF-co-CTFE mixed matrix membrane with enhanced anti-fouling and self-cleaning performances for effectively removing dyes by Fenton reaction. 2023 , 301, 127657	О
14	Enhancing CO2 permeation features of PEBAX-based membrane via incorporating MgO nanoparticles in its polymeric matrix. 2023 , 34, 105460	O
13	The potential of microalgae Dunaliella salina to treat shrimp pond wastewater in a PAN/GO membrane bioreactor. 2023 , 318, 138001	O
12	Fabrication of Nanoparticle-Doped Polyvinyl Alcohol-Cellulose Acetate Membrane and Characterization of the Surface Enhancement. 2023 , 51, 2100305	O
11	Comparison of powdered and colloidal SiO2 nanofillers in nanocomposite pervaporation desalination membranes. 2023 ,	О
10	Application of nanocomposites in fuel cell. 2023 , 129-147	0

9	Progress in Metal Nanoparticles-Based Elastic Materials. 2023 , 317-338	0
8	Polymeric Membranes for Water Treatment. 2023 , 1-21	O
7	Functionalized electrospun biobased polymeric materials in filtration. 2023, 625-651	О
6	Microporous Hematite-Loaded Composite Membrane for Arsenic(III) and Arsenic(V) Removal.	o
5	Effect of Morphology on the Permeability of CO ₂ Across PSF/FCTF-1 Mixed Matrix Membranes. 944, 163-173	О
4	Versatile Silver-Nanoparticle-Impregnated Membranes for Water Treatment: A Review. 2023 , 13, 432	o
3	Desalination Pretreatment Technologies: Current Status and Future Developments. 2023, 15, 1572	O
2	Comparison of NaOH and NaOCl on-line chemical enhanced backwash on membrane fouling of high flux membrane bioreactor treating sewage. 2023 , 14, 100500	0
1	Porous Stainless Steel Microsphere Synthesis by a Nonconventional Powder Metallurgy Process Useful in the Cermet-Type Advanced Nuclear Fuel Fabrication. 2023 , 2023, 1-22	О