

Chuyang Y Tang

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

15456
citing authors

#	ARTICLE	IF	CITATIONS
1	High Permeance or High Selectivity? Optimization of System-Scale Nanofiltration Performance Constrained by the Upper Bound. ACS ES&T Engineering, 2022, 2, 377-390.	3.7	29
2	Tracing the impact of stack configuration on interface resistances in reverse electrodialysis by in situ electrochemical impedance spectroscopy. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	8
3	The open membrane database: Synthesisâ€‘structureâ€‘performance relationships of reverse osmosis membranes. Journal of Membrane Science, 2022, 641, 119927.	4.1	62
4	A critical review on porous substrates of TFC polyamide membranes: Mechanisms, membrane performances, and future perspectives. Journal of Membrane Science, 2022, 641, 119871.	4.1	167
5	Vaporâ€‘phase polymerization of highâ€‘performance thinâ€‘film composite membranes for nanofiltration. AIChE Journal, 2022, 68, e17517.	1.8	11
6	Reaction heterogeneity in the bridging effect of divalent cations on polysaccharide fouling. Journal of Membrane Science, 2022, 641, 119933.	4.1	48
7	Nanofiltration for drinking water treatment: a review. Frontiers of Chemical Science and Engineering, 2022, 16, 681-698.	2.3	77
8	Preparation of electrically enhanced forward osmosis (FO) membrane by two-dimensional MXenes for organic fouling mitigation. Chinese Chemical Letters, 2022, 33, 3818-3822.	4.8	18
9	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport. Nature Communications, 2022, 13, 266.	5.8	76
10	Effects of crossflow filtration cell configuration on membrane separation performance and fouling behaviour. Desalination, 2022, 525, 115505.	4.0	7
11	Air nanobubbles (ANBs) incorporated sandwich-structured carbon nanotube membranes (CNM) for highly permeable and stable forward osmosis. , 2022, 2, 100026.		3
12	Understanding Selectivity in Soluteâ€‘Solute Separation: Definitions, Measurements, and Comparability. Environmental Science & Technology, 2022, 56, 2605-2616.	4.6	22
13	A comprehensive review of electrospray technique for membrane development: Current status, challenges, and opportunities. Journal of Membrane Science, 2022, 646, 120248.	4.1	26
14	Carbon Nanotube Interlayer Enhances Water Permeance and Antifouling Performance of Nanofiltration Membranes: Mechanisms and Experimental Evidence. Environmental Science & Technology, 2022, 56, 2656-2664.	4.6	72
15	Metal-organic framework enables ultraselective polyamide membrane for desalination and water reuse. Science Advances, 2022, 8, eabm4149.	4.7	87
16	Electro-Enhanced Separation of Microsized Oil-in-Water Emulsions via Metallic Membranes: Performance and Mechanistic Insights. Environmental Science & Technology, 2022, 56, 4518-4530.	4.6	30
17	Deciphering the Role of Amine Concentration on Polyamide Formation toward Enhanced RO Performance. ACS ES&T Engineering, 2022, 2, 903-912.	3.7	23
18	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. Environmental Science and Technology Letters, 2022, 9, 247-257.	3.9	42

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19	Ion-plus salinity gradient flow Battery. <i>Chemical Engineering Science</i> , 2022, 253, 117580.	1.9	5
20	Unraveling the Kinetics and Mechanism of Surfactant-Induced Wetting in Membrane Distillation: An In Situ Observation with Optical Coherence Tomography. <i>Environmental Science & Technology</i> , 2022, 56, 556-563.	4.6	28
21	Optimization of Aquaporin Loading for Performance Enhancement of Aquaporin-Based Biomimetic Thin-Film Composite Membranes. <i>Membranes</i> , 2022, 12, 32.	1.4	8
22	Electrodialysis membrane technology for industrial wastewater treatment: recent advances. , 2022, , 265-315.		0
23	Simultaneous Electrochemical Exfoliation and Covalent Functionalization of MoS ₂ Membrane for Ion Sieving. <i>Advanced Materials</i> , 2022, 34, e2201416.	11.1	45
24	Superhydrophobic Carbon Nanotube Network Membranes for Membrane Distillation: High-Throughput Performance and Transport Mechanism. <i>Environmental Science & Technology</i> , 2022, 56, 5775-5785.	4.6	21
25	Recovery of Salinity Gradient Energy with an Inorganic Sodium Superionic Conductor. <i>ACS Energy Letters</i> , 2022, 7, 1806-1813.	8.8	0
26	Optimization of Self-Adaptive INR-MPPT for R-Mode RED Stacks. , 2022, , .		1
27	Breathable and Skin-Conformal Electronics with Hybrid Integration of Microfabricated Multifunctional Sensors and Kirigami-Structured Nanofibrous Substrates. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
28	Vacuum-assisted MPD loading toward promoted nanoscale structure and enhanced water permeance of polyamide RO membrane. <i>Separation and Purification Technology</i> , 2022, 297, 121547.	3.9	6
29	Cosolvent-Assisted Interfacial Polymerization toward Regulating the Morphology and Performance of Polyamide Reverse Osmosis Membranes: Increased <i>m</i> -Phenylenediamine Solubility or Enhanced Interfacial Vaporization?. <i>Environmental Science & Technology</i> , 2022, 56, 10308-10316.	4.6	20
30	Unveiling the Growth of Polyamide Nanofilms at Water/Organic Free Interfaces: Toward Enhanced Water/Salt Selectivity. <i>Environmental Science & Technology</i> , 2022, 56, 10279-10288.	4.6	27
31	Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. <i>Journal of Membrane Science</i> , 2021, 618, 118681.	4.1	37
32	An alkaline stable anion exchange membrane for electro-desalination. <i>Desalination</i> , 2021, 497, 114779.	4.0	16
33	Engineering antifouling reverse osmosis membranes: A review. <i>Desalination</i> , 2021, 499, 114857.	4.0	192
34	Recent development of pressure retarded osmosis membranes for water and energy sustainability: A critical review. <i>Water Research</i> , 2021, 189, 116666.	5.3	40
35	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling" Emulsion Separation via Coalescence Demulsification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4731-4739.	4.0	36
36	Novel molecular level insights into forward osmosis membrane fouling affected by reverse diffusion of draw solutions based on thermodynamic mechanisms. <i>Journal of Membrane Science</i> , 2021, 620, 118815.	4.1	25

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37	High-Efficiency Capture and Recovery of Anionic Perfluoroalkyl Substances from Water Using PVA/PDDA Nanofibrous Membranes with Near-Zero Energy Consumption. <i>Environmental Science and Technology Letters</i> , 2021, 8, 350-355.	3.9	17
38	Modelling the critical roles of zeta potential and contact angle on colloidal fouling with a coupled XDLVO - collision attachment approach. <i>Journal of Membrane Science</i> , 2021, 623, 119048.	4.1	39
39	Coupling heat curing and surface modification for the fabrication of high permselectivity polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2021, 623, 119073.	4.1	40
40	Degradation of Polyamide Nanofiltration Membranes by Bromine: Changes of Physiochemical Properties and Filtration Performance. <i>Environmental Science & Technology</i> , 2021, 55, 6329-6339.	4.6	16
41	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16906-16915.	4.0	70
42	Does interfacial vaporization of organic solvent affect the structure and separation properties of polyamide RO membranes?. <i>Journal of Membrane Science</i> , 2021, 625, 119173.	4.1	47
43	High-Capacity Amidoxime-Functionalized β -Cyclodextrin/Graphene Aerogel for Selective Uranium Capture. <i>Environmental Science & Technology</i> , 2021, 55, 9181-9188.	4.6	112
44	An RED Hybrid Model for SOC Tracking, Runtime Prediction and Transient Response Description. , 2021, , ,		0
45	Cleaningâ€“Healingâ€“Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10352-10360.	3.2	15
46	Interlayered Forward Osmosis Membranes with $Ti_3C_2T_x$ MXene and Carbon Nanotubes for Enhanced Municipal Wastewater Concentration. <i>Environmental Science & Technology</i> , 2021, 55, 13219-13230.	4.6	16
47	Enhancing nanofiltration performance for antibiotics/NaCl separation via water activation before microwave heating. <i>Journal of Membrane Science</i> , 2021, 629, 119285.	4.1	23
48	Advanced thin-film nanocomposite membranes embedded with organic-based nanomaterials for water and organic solvent purification: A review. <i>Separation and Purification Technology</i> , 2021, 269, 118719.	3.9	37
49	Surface modification of nanofiltration membranes to improve the removal of organic micropollutants: Linking membrane characteristics to solute transmission. <i>Water Research</i> , 2021, 203, 117520.	5.3	40
50	Tunable isoporous ceramic membranes towards precise sieving of nanoparticles and proteins. <i>Journal of Membrane Science</i> , 2021, 634, 119391.	4.1	10
51	Facile ZIFâ€“8 nanocrystals interlayered solventâ€“resistant thinâ€“film nanocomposite membranes for enhanced solvent permeance and rejection. <i>Journal of Membrane Science</i> , 2021, 636, 119586.	4.1	32
52	Dissect the role of particle size through collision-attachment simulations for colloidal fouling of RO/NF membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119679.	4.1	13
53	Osmotically enhanced reverse osmosis using hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119703.	4.1	6
54	Multilayer assembly of thin-film nanocomposite membranes with enhanced NaCl and antibiotic rejection. <i>Desalination</i> , 2021, 517, 115261.	4.0	17

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55	Dually charged polyamide nanofiltration membranes fabricated by microwave-assisted grafting for heavy metals removal. <i>Journal of Membrane Science</i> , 2021, 640, 119834.	4.1	34
56	One-step removal of lead from water using an electricity-free and sustainable membrane filtration. <i>HKIE Transactions</i> , 2021, 27, 166-172.	1.9	0
57	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. <i>Green Chemistry</i> , 2021, 23, 1013-1025.	4.6	18
58	A Generalized Reverse-Electrodialysis Model Incorporating Both Continuous and Recycle Modes for Energy Harvesting From Salinity Gradient Power. <i>IEEE Access</i> , 2021, 9, 71626-71637.	2.6	3
59	Stable Zr-Based Metal-Organic Framework Nanoporous Membrane for Efficient Desalination of Hypersaline Water. <i>Environmental Science & Technology</i> , 2021, 55, 14917-14927.	4.6	31
60	Spinel-based ceramic membranes coupling solid sludge recycling with oily wastewater treatment. <i>Water Research</i> , 2020, 169, 115180.	5.3	66
61	Recent advances in mitigating membrane biofouling using carbon-based materials. <i>Journal of Hazardous Materials</i> , 2020, 382, 120976.	6.5	67
62	Simulation of an energy self-sufficient electrodialysis desalination stack for salt removal efficiency and fresh water recovery. <i>Journal of Membrane Science</i> , 2020, 598, 117771.	4.1	8
63	Microfiltration membranes modified by silver-decorated biomimetic silica nanopollens for mitigating biofouling: Synergetic effects of nanopollens and silver nanoparticles. <i>Journal of Membrane Science</i> , 2020, 597, 117773.	4.1	19
64	Removal of organic micropollutants using advanced membrane-based water and wastewater treatment: A review. <i>Journal of Membrane Science</i> , 2020, 598, 117672.	4.1	238
65	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. <i>Water Research</i> , 2020, 183, 115969.	5.3	20
66	Cross-linked Graphene Oxide Framework Membranes with Robust Nano-Channels for Enhanced Sieving Ability. <i>Environmental Science & Technology</i> , 2020, 54, 15442-15453.	4.6	75
67	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. <i>Environmental Science & Technology</i> , 2020, 54, 15563-15583.	4.6	308
68	Immobilization of sulfonated polysulfone via 2D LDH nanosheets during phase-inversion: A novel strategy towards greener membrane synthesis and enhanced desalination performance. <i>Journal of Membrane Science</i> , 2020, 614, 118508.	4.1	23
69	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2020, 54, 11611-11621.	4.6	137
70	Probing the Contributions of Interior and Exterior Channels of Nanofillers toward the Enhanced Separation Performance of a Thin-Film Nanocomposite Reverse Osmosis Membrane. <i>Environmental Science and Technology Letters</i> , 2020, 7, 766-772.	3.9	41
71	Stochastic Collision-Attachment-Based Monte Carlo Simulation of Colloidal Fouling: Transition from Foulant-Clean-Membrane Interaction to Foulant-Fouled-Membrane Interaction. <i>Environmental Science & Technology</i> , 2020, 54, 12703-12712.	4.6	19
72	Thin-film nanocomposite membranes containing tannic acid-Fe ³⁺ modified MoS ₂ nanosheets with enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 616, 118605.	4.1	82

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73	Metal-Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. <i>ACS Applied Nano Materials</i> , 2020, 3, 9238-9248.	2.4	57
74	Omniphobic PVDF nanofibrous membrane for superior anti-wetting performance in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020, 608, 118226.	4.1	75
75	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. <i>Environmental Science & Technology</i> , 2020, 54, 6978-6986.	4.6	123
76	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. <i>Environmental Science & Technology</i> , 2020, 54, 7715-7724.	4.6	63
77	Novel high-flux positively charged composite membrane incorporating titanium-based MOFs for heavy metal removal. <i>Chemical Engineering Journal</i> , 2020, 398, 125706.	6.6	86
78	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 7619-7628.	4.6	95
79	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. <i>Environmental Science & Technology</i> , 2020, 54, 9074-9082.	4.6	65
80	Highly selective separation and resource recovery using forward osmosis membrane assembled by polyphenol network. <i>Journal of Membrane Science</i> , 2020, 611, 118305.	4.1	21
81	High-flux robust ceramic membranes functionally decorated with nano-catalyst for emerging micro-pollutant removal from water. <i>Journal of Membrane Science</i> , 2020, 611, 118281.	4.1	47
82	Low-Tortuosity Water Microchannels Boosting Energy Utilization for High Water Flux Solar Distillation. <i>Environmental Science & Technology</i> , 2020, 54, 5150-5158.	4.6	89
83	Graphene oxide membranes: controlling their transport pathways. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15319-15340.	5.2	118
84	Ultrathin polyamide nanofilm with an asymmetrical structure: A novel strategy to boost the permeance of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2020, 612, 118402.	4.1	17
85	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2020, 612, 118476.	4.1	97
86	Intrinsic Nanoscale Structure of Thin Film Composite Polyamide Membranes: Connectivity, Defects, and Structure-Property Correlation. <i>Environmental Science & Technology</i> , 2020, 54, 3559-3569.	4.6	135
87	Electrosprayed polyamide nanofiltration membrane with intercalated structure for controllable structure manipulation and enhanced separation performance. <i>Journal of Membrane Science</i> , 2020, 602, 117971.	4.1	68
88	Improved anti-biofouling performance of pressure retarded osmosis (PRO) by dosing with chlorhexidine gluconate. <i>Desalination</i> , 2020, 481, 114376.	4.0	16
89	Superior nanofiltration membranes with gradient cross-linked selective layer fabricated via controlled hydrolysis. <i>Journal of Membrane Science</i> , 2020, 604, 118067.	4.1	58
90	Effect of Spacer Configuration on the Characteristics of FO Membranes: Alteration of Permeation Characteristics by Membrane Deformation and Concentration Polarization. <i>Environmental Science & Technology</i> , 2020, 54, 6385-6395.	4.6	21

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91	Engineering Interface with a One-Dimensional RuO ₂ /TiO ₂ Heteronanostructure in an Electrocatalytic Membrane Electrode: Toward Highly Efficient Micropollutant Decomposition. ACS Applied Materials & Interfaces, 2020, 12, 21596-21604.	4.0	26
92	Polyethyleneimine modified carbohydrate doped thin film composite nanofiltration membrane for purification of drinking water. Journal of Membrane Science, 2020, 610, 118220.	4.1	39
93	Effect of oxidation degree of GO nanosheets on microstructure and performance of polysulfone-GO mixed matrix membranes. Separation and Purification Technology, 2020, 244, 116865.	3.9	21
94	Two-Dimensional Ti ₃ C ₂ T _x MXene Membranes as Nanofluidic Osmotic Power Generators. ACS Nano, 2019, 13, 8917-8925.	7.3	235
95	Peptide-induced super-assembly of biocatalytic metal-organic frameworks for programmed enzyme cascades. Chemical Science, 2019, 10, 7852-7858.	3.7	91
96	The upper bound of thin-film composite (TFC) polyamide membranes for desalination. Journal of Membrane Science, 2019, 590, 117297.	4.1	381
97	Tailoring Polyamide Rejection Layer with Aqueous Carbonate Chemistry for Enhanced Membrane Separation: Mechanistic Insights, Chemistry-Structure-Property Relationship, and Environmental Implications. Environmental Science & Technology, 2019, 53, 9764-9770.	4.6	91
98	Membrane-based technologies for lithium recovery from water lithium resources: A review. Journal of Membrane Science, 2019, 591, 117317.	4.1	326
99	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. Environmental Science & Technology, 2019, 53, 13776-13783.	4.6	111
100	Double-Crosslinked GO Interlayer Framework as a Pervaporation Hybrid Membrane with High Performance. ACS Omega, 2019, 4, 15043-15050.	1.6	12
101	Seawater pretreatment with an NF-like forward osmotic membrane: Membrane preparation, characterization and performance comparison with RO-like membranes. Desalination, 2019, 470, 114115.	4.0	18
102	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. Journal of Colloid and Interface Science, 2019, 552, 418-425.	5.0	24
103	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. Journal of Colloid and Interface Science, 2019, 553, 99-107.	5.0	66
104	Confined nanobubbles shape the surface roughness structures of thin film composite polyamide desalination membranes. Journal of Membrane Science, 2019, 582, 342-349.	4.1	143
105	Superhydrophilic and mechanical robust PVDF nanofibrous membrane through facile interfacial Span 80 welding for excellent oil/water separation. Applied Surface Science, 2019, 485, 179-187.	3.1	44
106	Calcium-Carboxyl Intrabridging during Interfacial Polymerization: A Novel Strategy to Improve Antifouling Performance of Thin Film Composite Membranes. Environmental Science & Technology, 2019, 53, 4371-4379.	4.6	64
107	Sustaining fouling resistant membranes: Membrane fabrication, characterization and mechanism understanding of demulsification and fouling-resistance. Journal of Membrane Science, 2019, 581, 105-113.	4.1	57
108	Reverse Electrodialysis Chemical Cell for Energy Harvesting from Controlled Acid-Base Neutralization. Environmental Science & Technology, 2019, 53, 4640-4647.	4.6	17

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109	Hydrophilic Silver Nanoparticles Induce Selective Nanochannels in Thin Film Nanocomposite Polyamide Membranes. <i>Environmental Science & Technology</i> , 2019, 53, 5301-5308.	4.6	190
110	Non-Polyamide Based Nanofiltration Membranes Using Green Metal-Organic Coordination Complexes: Implications for the Removal of Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019, 53, 2688-2694.	4.6	90
111	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47963-47971.	4.0	80
112	An internal-integrated RED/ED system for energy-saving seawater desalination: A model study. <i>Energy</i> , 2019, 170, 139-148.	4.5	14
113	Janus Membrane with Unparalleled Forward Osmosis Performance. <i>Environmental Science and Technology Letters</i> , 2019, 6, 79-85.	3.9	47
114	Tuning roughness features of thin film composite polyamide membranes for simultaneously enhanced permeability, selectivity and anti-fouling performance. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 382-388.	5.0	139
115	Carbon nanotubes enhance permeability of ultrathin polyamide rejection layers. <i>Journal of Membrane Science</i> , 2019, 570-571, 139-145.	4.1	61
116	Fabrication of a novel and green thin-film composite membrane containing nanovoids for water purification. <i>Journal of Membrane Science</i> , 2019, 570-571, 314-321.	4.1	54
117	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 239-244.	5.0	48
118	Free-standing hierarchical MnO ₂ @CuO membrane for catalytic filtration degradation of organic pollutants. <i>Chemosphere</i> , 2018, 200, 237-247.	4.2	101
119	Polydopamine enabled palladium loaded nanofibrous membrane and its catalytic performance for trichloroethene dechlorination. <i>Applied Catalysis A: General</i> , 2018, 559, 122-126.	2.2	23
120	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9192-9199.	5.2	151
121	Polydopamine coating on a thin film composite forward osmosis membrane for enhanced mass transport and antifouling performance. <i>Journal of Membrane Science</i> , 2018, 551, 234-242.	4.1	110
122	Reactable substrate participating interfacial polymerization for thin film composite membranes with enhanced salt rejection performance. <i>Desalination</i> , 2018, 436, 1-7.	4.0	39
123	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , 2018, 5, 123-130.	3.9	260
124	Interfacial Polymerization with Electrosprayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , 2018, 5, 117-122.	3.9	105
125	Novel polyethyleneimine/TMC-based nanofiltration membrane prepared on a polydopamine coated substrate. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 273-282.	2.3	39
126	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. <i>Journal of Membrane Science</i> , 2018, 549, 165-172.	4.1	64

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127	Modeling Dynamics of Colloidal Fouling of RO/NF Membranes with A Novel Collision-Attachment Approach. <i>Environmental Science & Technology</i> , 2018, 52, 1471-1478.	4.6	32
128	Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. <i>Separation and Purification Technology</i> , 2018, 197, 27-35.	3.9	144
129	Trace organic contaminant rejection by aquaporin forward osmosis membrane: Transport mechanisms and membrane stability. <i>Water Research</i> , 2018, 132, 90-98.	5.3	76
130	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. <i>Chemical Engineering Journal</i> , 2018, 339, 153-161.	6.6	62
131	Reverse Electrodialysis Energy Harvesting System Using High-Gain Step-Up DC/DC Converter. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 1578-1587.	5.9	10
132	Cross-linked PVC/hyperbranched polyester composite hollow fiber membranes for dye removal. <i>Reactive and Functional Polymers</i> , 2018, 122, 51-59.	2.0	26
133	Recent development of novel membranes for desalination. <i>Desalination</i> , 2018, 434, 37-59.	4.0	183
134	Effects of hypochlorite exposure on the structure and electrochemical performance of ion exchange membranes in reverse electrodialysis. <i>Journal of Membrane Science</i> , 2018, 549, 295-305.	4.1	20
135	Recent developments and future perspectives of reverse electrodialysis technology: A review. <i>Desalination</i> , 2018, 425, 156-174.	4.0	338
136	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , 2018, 121, 1039-1057.	4.8	94
137	Theoretical and experimental study of organic fouling of loose nanofiltration membrane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 509-518.	2.7	28
138	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. <i>Nano Letters</i> , 2018, 18, 5514-5521.	4.5	153
139	Novel Membranes and Membrane Materials. , 2018, , 201-221.		3
140	Removal notice to Porous forward osmosis membranes for polishing biologically treated wastewater: Condition optimization and draw solution recovery <i>Bioresource Technology</i> 263 (2018) 192â€“198. <i>Bioresource Technology</i> , 2018, 263, R1.	4.8	0
141	Tannic Acid/Fe ³⁺ Nanoscaffold for Interfacial Polymerization: Toward Enhanced Nanofiltration Performance. <i>Environmental Science & Technology</i> , 2018, 52, 9341-9349.	4.6	310
142	Janus Polyvinylidene Fluoride Membrane with Extremely Opposite Wetting Surfaces via One Single-Step Unidirectional Segregation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24947-24954.	4.0	64
143	Solvent-thermal induced roughening: A novel and versatile method to prepare superhydrophobic membranes. <i>Journal of Membrane Science</i> , 2018, 564, 465-472.	4.1	68
144	Biofouling in ultrafiltration process for drinking water treatment and its control by chlorinated-water and pure water backwashing. <i>Science of the Total Environment</i> , 2018, 644, 306-314.	3.9	61

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145	Functionalized Graphene Oxide Modified Polyethersulfone Membranes for Low-Pressure Anionic Dye/Salt Fractionation. <i>Polymers</i> , 2018, 10, 795.	2.0	15
146	REMOVED: Porous forward osmosis membranes for polishing biologically treated wastewater: Condition optimization and draw solution recovery. <i>Bioresource Technology</i> , 2018, 263, 192-198.	4.8	4
147	Potable Water Reuse through Advanced Membrane Technology. <i>Environmental Science & Technology</i> , 2018, 52, 10215-10223.	4.6	363
148	Preparation of nanocavity-contained thin film composite nanofiltration membranes with enhanced permeability and divalent to monovalent ion selectivity. <i>Desalination</i> , 2018, 445, 115-122.	4.0	96
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