Nidal Hilal

List of Publications by Year
in descending order

364 papers	28,089 citations	5876 81 h-index	6979 154 g-index
370 all docs	370 docs citations	370 times ranked	18316 citing authors

#	Article	IF	Citations
1	Electrically conductive membranes for contemporaneous dye rejection and degradation. Chemical Engineering Journal, 2022, 428, 131184.	6.6	31
2	Titanium coating on ultrafiltration inorganic membranes for fouling control. Separation and Purification Technology, 2022, 282, 119997.	3.9	8
3	Nanocomposite nanofiltration membranes: State of play and recent advances. Desalination, 2022, 524, 115480.	4.0	48
4	Nanofiltration membrane processes for water recycling, reuse and product recovery within various industries: A review. Journal of Water Process Engineering, 2022, 45, 102478.	2.6	76
5	Electrospun membranes for membrane distillation: The state of play and recent advances. Desalination, 2022, 526, 115511.	4.0	39
6	Biomolecule-Enabled Liquid Separation Membranes: Potential and Recent Progress. Membranes, 2022, 12, 148.	1.4	7
7	Advances in Membrane Distillation Module Configurations. Membranes, 2022, 12, 81.	1.4	35
8	Lithium recovery from brine: Recent developments and challenges. Desalination, 2022, 528, 115611.	4.0	90
9	<scp>3D</scp> printed electrically conductive interdigitated spacer on ultrafiltration membrane for electrolytic cleaning and chlorination. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
10	Intermittent direct joule heating of membrane surface for seawater desalination by air gap membrane distillation. Journal of Membrane Science, 2022, 648, 120390.	4.1	16
11	Natural and recycled materials for sustainable membrane modification: Recent trends and prospects. Science of the Total Environment, 2022, 838, 156014.	3.9	14
12	Can graphene and graphene oxide materials revolutionise desalination processes?. Desalination, 2021, 500, 114852.	4.0	27
13	Superhydrophilic and underwater superoleophobic nano zeolite membranes for efficient oil-in-water nanoemulsion separation. Journal of Water Process Engineering, 2021, 40, 101802.	2.6	20
14	Salinity gradient energy generation by pressure retarded osmosis: A review. Desalination, 2021, 500, 114841.	4.0	52
15	Basic principles of osmosis and osmotic pressure. , 2021, , 1-15.		3
16	Application of PRO process for seawater and wastewater treatment: assessment of membrane performance. , 2021, , 203-244.		0
17	Principles of forward osmosis. , 2021, , 131-148.		1
18	Membrane distillation process application using a novel ceramic membrane for Brackish water desalination. Desalination, 2021, 500, 114906.	4.0	25

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19	Green Approaches for Sustainable Development of Liquid Separation Membrane. Membranes, 2021, 11, 235.	1.4	20
20	The hybridization of thermally-driven desalination processes: The state-of-the-art and opportunities. Desalination, 2021, 506, 115002.	4.0	22
21	Electro-ceramic self-cleaning membranes for biofouling control and prevention in water treatment. Chemical Engineering Journal, 2021, 415, 128395.	6.6	31
22	Evaluating Fertilizer-Drawn Forward Osmosis Performance in Treating Anaerobic Palm Oil Mill Effluent. Membranes, 2021, 11, 566.	1.4	10
23	3D printed zeolite-Y for removing heavy metals from water. Journal of Water Process Engineering, 2021, 42, 102187.	2.6	11
24	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. Journal of Industrial and Engineering Chemistry, 2021, 101, 78-125.	2.9	43
25	The emerging role of 3D printing in water desalination. Science of the Total Environment, 2021, 790, 148238.	3.9	28
26	Hierarchical underwater oleophobic electro-ceramic/carbon nanostructure membranes for highly efficient oil-in-water separation. Separation and Purification Technology, 2021, 275, 119241.	3.9	21
27	Current advances in membrane technologies for saline wastewater treatment: A comprehensive review. Desalination, 2021, 517, 115170.	4.0	91
28	Emerging desalination technologies: Current status, challenges and future trends. Desalination, 2021, 517, 115183.	4.0	133
29	Comprehensive review of membrane design and synthesis for membrane distillation. Desalination, 2021, 518, 115168.	4.0	68
30	Principle and theoretical background of pressure-retarded osmosis process. , 2021, , 187-202.		0
31	Surface Design of Liquid Separation Membrane through Graft Polymerization: A State of the Art Review. Membranes, 2021, 11, 832.	1.4	22
32	Breakthroughs in the fabrication of electrospun-nanofiber-supported thin film composite/nanocomposite membranes for the forward osmosis process: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 1727-1795.	6.6	40
33	Dewatering of POME digestate using lignosulfonate driven forward osmosis. Separation and Purification Technology, 2020, 235, 116151.	3.9	9
34	Innovative and sustainable membrane technology for wastewater treatment and desalination application. , 2020, , 291-319.		10
35	Thermodynamic optimization of Multistage Pressure Retarded Osmosis (MPRO) with variable feed pressures for hypersaline solutions. Desalination, 2020, 477, 114245.	4.0	8
36	Effect of lithium chloride additive on forward osmosis membranes performance. Journal of Water Process Engineering, 2020, 33, 101049.	2.6	26

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37	Interaction between ballasting agent and flocs in ballasted flocculation for the removal of suspended solids in water. Journal of Water Process Engineering, 2020, 33, 101028.	2.6	23
38	Unlocking the application potential of forward osmosis through integrated/hybrid process. Science of the Total Environment, 2020, 706, 136047.	3.9	41
39	Nanocrystalline NiWO4-WO3-WO2.9 Composite Strings: Fabrication, Characterization and their Electrocatalytic Performance for Hydrogen Evolution Reaction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1264-1274.	1.1	10
40	Ceramic Microfiltration Membranes in Wastewater Treatment: Filtration Behavior, Fouling and Prevention. Membranes, 2020, 10, 248.	1.4	60
41	Hybrid technologies: The future of energy efficient desalination â€“ A review. Desalination, 2020, 495, 114659.	4.0	129
42	Alternative heating techniques in membrane distillation: A review. Desalination, 2020, 496, 114713.	4.0	108
43	Strategies in Forward Osmosis Membrane Substrate Fabrication and Modification: A Review. Membranes, 2020, 10, 332.	1.4	45
44	The role of wastewater treatment plants as tools for SARS-CoV-2 early detection and removal. Journal of Water Process Engineering, 2020, 38, 101544.	2.6	65
45	Experimental investigation of forward osmosis process for boron removal from water. Journal of Water Process Engineering, 2020, 38, 101570.	2.6	18
46	Membrane desalination and water re-use for agriculture: State of the art and future outlook. Desalination, 2020, 491, 114559.	4.0	75
47	Current status and challenges of fabricating thin film composite forward osmosis membrane: A comprehensive roadmap. Desalination, 2020, 491, 114557.	4.0	56
48	Energy for desalination: A state-of-the-art review. Desalination, 2020, 491, 114569.	4.0	247
49	Ammonium ion removal using activated zeolite and chitosan. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2448.	0.8	12
50	Breaking through the selectivity-permeability tradeoff using nano zeolite-Y for micellar enhanced ultrafiltration dye rejection application. Separation and Purification Technology, 2020, 242, 116824.	3.9	35
51	Fouling mitigation in forward osmosis and membrane distillation for desalination. Desalination, 2020, 480, 114338.	4.0	111
52	Ultrafiltration membranes for wastewater and water process engineering: A comprehensive statistical review over the past decade. Journal of Water Process Engineering, 2020, 35, 101241.	2.6	148
53	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. Desalination, 2020, 485, 114455.	4.0	194
54	Remineralization of desalinated water: Methods and environmental impact. Desalination, 2020, 496, 114692.	4.0	27

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55	Enhanced performance of direct contact membrane distillation via selected electrothermal heating of membrane surface. Journal of Membrane Science, 2020, 610, 118224.	4.1	33
56	Mathematical and optimization modelling in desalination: State-of-the-art and future direction. Desalination, 2019, 469, 114092.	4.0	64
57	Functional materials in desalination: A review. Desalination, 2019, 468, 114077.	4.0	111
58	Contemporary antibiofouling modifications of reverse osmosis desalination membrane: A review. Desalination, 2019, 468, 114072.	4.0	83
59	Forward osmosis research trends in desalination and wastewater treatment: A review of research trends over the past decade. Journal of Water Process Engineering, 2019, 31, 100886.	2.6	117
60	Towards a Sustainable Water Supply: Humic Acid Removal Employing Coagulation and Tangential Cross Flow Microfiltration. Water (Switzerland), 2019, 11, 2093.	1.2	4
61	Interactions between nanoparticles in nanosuspension. Advances in Colloid and Interface Science, 2019, 272, 102020.	7.0	26
62	Fouling control in reverse osmosis membranes through modification with conductive carbon nanostructures. Desalination, 2019, 470, 114118.	4.0	27
63	An integrated fertilizer driven forward osmosis- renewables powered membrane distillation system for brackish water desalination: A combined experimental and theoretical approach. Desalination, 2019, 471, 114126.	4.0	47
64	Flux and salt rejection enhancement of polyvinyl(alcohol) reverse osmosis membranes using nano-zeolite. Desalination, 2019, 470, 114104.	4.0	34
65	Microfiltration membrane processes: A review of research trends over the past decade. Journal of Water Process Engineering, 2019, 32, 100941.	2.6	118
66	Analytical and forecasting study for wastewater treatment and water resources in Saudi Arabia. Journal of Water Process Engineering, 2019, 32, 100915.	2.6	27
67	Development of an axisymmetric parallel solution algorithm for membrane separation process. Desalination, 2019, 471, 114127.	4.0	0
68	Brackish water desalination for agriculture: Assessing the performance of inorganic fertilizer draw solutions. Desalination, 2019, 456, 53-63.	4.0	35
69	Investigations of the effect of pore size of ceramic membranes on the pilot-scale removal of oil from oil-water emulsion. Journal of Water Process Engineering, 2019, 31, 100868.	2.6	25
70	Superior cross-linking assisted layer by layer modification of forward osmosis membranes for brackish water desalination. Desalination, 2019, 463, 1-12.	4.0	23
71	Development of forward osmosis membranes modified by cross-linked layer by layer assembly for brackish water desalination. Journal of Membrane Science, 2019, 583, 267-277.	4.1	25
72	Reverse osmosis desalination: A state-of-the-art review. Desalination, 2019, 459, 59-104.	4.0	765

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73	Can machine language and artificial intelligence revolutionize process automation for water treatment and desalination?. Desalination, 2019, 458, 84-96.	4.0	129
74	Reverse osmosis pretreatment technologies and future trends: A comprehensive review. Desalination, 2019, 452, 159-195.	4.0	300
75	Polymer membranes â€“ Fractal characteristics and determination of roughness scaling exponents. Journal of Membrane Science, 2019, 570-571, 9-22.	4.1	11
76	Optimisation of the removal of oil in water emulsion by using ceramic microfiltration membrane and hybrid coagulation/sand filter-MF. Journal of Water Process Engineering, 2019, 27, 15-23.	2.6	30
77	Solar powered desalination â€“ Technology, energy and future outlook. Desalination, 2019, 453, 54-76.	4.0	358
78	Nuclear desalination: A state-of-the-art review. Desalination, 2019, 457, 39-61.	4.0	122
79	Periodic electrolysis technique for in situ fouling control and removal with low-pressure membrane filtration. Desalination, 2018, 433, 10-24.	4.0	13
80	Advances in forward osmosis membranes: Altering the sub-layer structure via recent fabrication and chemical modification approaches. Desalination, 2018, 436, 176-201.	4.0	115
81	Comparison between dual-layer (superhydrophobicâ€“hydrophobic) and single superhydrophobic layer electrospun membranes for heavy metal recovery by air-gap membrane distillation. Desalination, 2018, 439, 31-45.	4.0	40
82	Investigation of UF membranes fouling and potentials as pre-treatment step in desalination and surface water applications. Desalination, 2018, 432, 115-127.	4.0	39
83	Novel low-fouling membranes from lab to pilot application in textile wastewater treatment. Journal of Colloid and Interface Science, 2018, 515, 208-220.	5.0	28
84	Electrically conductive membranes for in situ fouling detection in membrane distillation using impedance spectroscopy. Journal of Membrane Science, 2018, 556, 66-72.	4.1	31
85	State of the art review on membrane surface characterisation: Visualisation, verification and quantification of membrane properties. Desalination, 2018, 434, 12-36.	4.0	35
86	Thin Film Nanocomposite (TFN) membranes modified with polydopamine coated metals/carbon-nanostructures for desalination applications. Desalination, 2018, 427, 60-74.	4.0	71
87	Osmotic's potential: An overview of draw solutes for forward osmosis. Desalination, 2018, 434, 100-120.	4.0	198
88	Removal of oil from oil-water emulsion by hybrid coagulation/sand filter as pre-treatment. Journal of Water Process Engineering, 2018, 26, 17-27.	2.6	36
89	Robust superhydrophobic electrospun membrane fabricated by combination of electrospinning and electrospraying techniques for air gap membrane distillation. Desalination, 2018, 446, 70-82.	4.0	83
90	Exploring the current state of play for cost-effective water treatment by membranes. Npj Clean Water, 2018, 1, .	3.1	20

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91	Membrane separation as a pre-treatment process for oily saline water. Desalination, 2018, 447, 182-202.	4.0	110
92	Membrane Modules for Large-Scale Salinity Gradient Process Applications. , 2018, , 223-242.		1
93	The use of ultrasound to mitigate membrane fouling in desalination and water treatment. Desalination, 2018, 443, 143-164.	4.0	120
94	Membrane distillationâ€"Principles, applications, configurations, design, and implementation. , 2018, , 55-106.		33
95	Adsorption of Ammonia Nitrogen by using Jackfruit (Artocarpus heterophyllus) Seeds: Batch and Fixed-bed Column Studies. Current Environmental Engineering, 2018, 5, 202-210.	0.6	2
96	Microfiltration of micro-sized suspensions of boron-selective resin with PVDF membranes. Desalination, 2017, 403, 161-171.	4.0	22
97	Effective coagulation-flocculation treatment of highly polluted palm oil mill biogas plant wastewater using dual coagulants: Decolourisation, kinetics and phytotoxicity studies. Journal of Water Process Engineering, 2017, 16, 258-269.	2.6	63
98	Electrically conductive spacers for self-cleaning membrane surfaces via periodic electrolysis. Desalination, 2017, 416, 16-23.	4.0	35
99	Atomic force microscopy studies of bioprocess engineering surfaces â€“ imaging, interactions and mechanical properties mediating bacterial adhesion. Biotechnology Journal, 2017, 12, 1600698.	1.8	34
100	Mechanical Characterization of Membranes. , 2017, , 259-306.		19
101	Atomic force microscopy study of the biofouling and mechanical properties of virgin and industrially fouled reverse osmosis membranes. Desalination, 2017, 404, 313-321.	4.0	32
102	Modelling of air gap membrane distillation and its application in heavy metals removal. Desalination, 2017, 424, 27-36.	4.0	55
103	A review of efforts to reduce membrane fouling by control of feed spacer characteristics. Desalination, 2017, 420, 384-402.	4.0	104
104	Nanofiltration membranes and processes: A review of research trends over the past decade. Journal of Water Process Engineering, 2017, 19, 164-171.	2.6	229
105	Superhydrophobic electrospun membrane for heavy metals removal by air gap membrane distillation (AGMD). Desalination, 2017, 420, 318-329.	4.0	119
106	Fabrication of antibacterial mixed matrix nanocomposite membranes using hybrid nanostructure of silver coated multi-walled carbon nanotubes. Chemical Engineering Journal, 2017, 326, 721-736.	6.6	70
107	Atomic Force Microscopy (AFM). , 2017, , 115-144.		10
108	Mass Transport in Porous Liquid Phase Membranes. , 2017, , 337-358.		1

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109	The Use of Modeling for Characterization of Membranes. , 2017, , 359-378.		2
110	Feed Solution Characterization. , 2017, , 379-404.		0
111	Electrokinetic Phenomena for Membrane Charge. , 2017, , 405-422.		4
112	Biomimetic membranes: A critical review of recent progress. Desalination, 2017, 420, 403-424.	4.0	100
113	Development of polysulfone-nanohybrid membranes using ZnO-GO composite for enhanced antifouling and antibacterial control. Desalination, 2017, 402, 123-132.	4.0	183
114	Laser Doppler Electrophoresis and electro-osmotic flow mapping: A novel methodology for the determination of membrane surface zeta potential. Journal of Membrane Science, 2017, 523, 524-532.	4.1	28
115	Effect of membrane performance including fouling on cost optimization in brackish water desalination process. Chemical Engineering Research and Design, 2017, 117, 401-413.	2.7	34
116	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. Desalination, 2017, 401, 1-15.	4.0	91
117	Air gap membrane distillation: A detailed study of high saline solution. Desalination, 2017, 403, 179-186.	4.0	75
118	Electrically conducting nanofiltration membranes based on networked cellulose and carbon nanostructures. Desalination, 2017, 406, 60-66.	4.0	20
119	Mechanical properties of water desalination and wastewater treatment membranes. Desalination, 2017, 401, 190-205.	4.0	146
120	Atomic-force microscopy investigations of filtration membranes. , 2017, , 189-212.		0
121	Hybrid coagulationâ€“NF membrane processes for brackish water treatment: Effect of pH and salt/calcium concentration. Desalination, 2016, 390, 25-32.	4.0	25
122	Modeling and optimization of a solar forward osmosis pilot plant by response surface methodology. Solar Energy, 2016, 137, 290-302.	2.9	42
123	Dual stage PRO power generation from brackish water brine and wastewater effluent feeds. Desalination, 2016, 389, 68-77.	4.0	12
124	Hybrid coagulationâ€“NF membrane process for brackish water treatment: Effect of antiscalant on water characteristics and membrane fouling. Desalination, 2016, 393, 144-150.	4.0	35
125	Chitosan as natural coagulant in hybrid coagulation-nanofiltration membrane process for water treatment. Journal of Environmental Chemical Engineering, 2016, 4, 4857-4862.	3.3	37
126	Novel low-fouling membrane bioreactor (MBR) for industrial wastewater treatment. Journal of Membrane Science, 2016, 510, 524-532.	4.1	61

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127	Enhancing oil removal from water using ferric oxide nanoparticles doped carbon nanotubes adsorbents. Chemical Engineering Journal, 2016, 293, 90-101.	6.6	148
128	Can carbon-based nanomaterials revolutionize membrane fabrication for water treatment and desalination?. Desalination, 2016, 391, 69-88.	4.0	115
129	Development of polyamide forward osmosis membrane for humic acid removal. Desalination and Water Treatment, 2016, 57, 29113-29117.	1.0	2
130	Electrically conductive polymeric membranes for fouling prevention and detection: A review. Desalination, 2016, 391, 1-15.	4.0	165
131	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. Desalination, 2016, 379, 172-181.	4.0	46
132	Recent trends in membranes and membrane processes for desalination. Desalination, 2016, 391, 43-60.	4.0	223
133	Fabrication and antifouling behaviour of a carbon nanotube membrane. Materials and Design, 2016, 89, 549-558.	3.3	77
134	Nano-enabled membranes technology: Sustainable and revolutionary solutions for membrane desalination?. Desalination, 2016, 380, 100-104.	4.0	125
135	Recent advances in the development of (bio)fouling resistant thin film composite membranes for desalination. Desalination, 2016, 380, 105-111.	4.0	121
136	Atomic Force Microscopy (AFM). , 2016, , 127-129.		0
137	Boron removal from water with fractionized Amberlite IRA743 resin. Desalination, 2015, 370, 1-6.	4.0	66
138	A step forward to a more efficient wastewater treatment by membrane surface modification via polymerizable bicontinuous microemulsion. Journal of Membrane Science, 2015, 482, 103-114.	4.1	55
139	Layer-by-layer surface modification of polyethersulfone membranes using polyelectrolytes and AgCl/TiO 2 xerogels. Journal of Membrane Science, 2015, 493, 807-819.	4.1	41
140	High recovery rate NFâ€“FOâ€“RO hybrid system for inland brackish water treatment. Desalination, 2015, 363, 19-25.	4.0	64
141	Design optimization of high performance dual stage pressure retarded osmosis. Desalination, 2015, 355, 217-224.	4.0	18
142	Statistical analysis of air-gap membrane desalination experimental data: Hypothesis testing. Desalination, 2015, 362, 117-125.	4.0	8
143	The Chemistry of Boron in Water. , 2015, , 35-63.		27
144	Electrically conductive membranes based on carbon nanostructures for self-cleaning of biofouling. Desalination, 2015, 360, 8-12.	4.0	102

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145	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. Analytical Methods, 2015, 7, 2693-2698.	1.3	50
146	Numerical modelling of concentration polarisation and cake formation in membrane filtration processes. Desalination, 2015, 365, 151-159.	4.0	14
147	Hybrid chitosan/FeCl3 coagulationâ€“membrane processes: Performance evaluation and membrane fouling study in removing natural organic matter. Separation and Purification Technology, 2015, 152, 23-31.	3.9	43
148	Water desalination by forward (direct) osmosis phenomenon: A comprehensive review. Desalination, 2015, 374, 47-69.	4.0	206
149	Treatment of textile wastewater by submerged membrane bioreactor: InÂvitro bioassays for the assessment of stress response elicited by raw and reclaimed wastewater. Journal of Environmental Management, 2015, 160, 184-192.	3.8	39
150	Adhesion forces between humic acid functionalized colloidal probes and polymer membranes to assess fouling potential. Journal of Membrane Science, 2015, 484, 35-46.	4.1	31
151	The use of factorial design in the analysis of air-gap membrane distillation data. Desalination, 2015, 367, 90-102.	4.0	10
152	Coagulation/flocculation of lignin aqueous solution in single stage mixing tank system: Modeling and optimization by response surface methodology. Journal of Environmental Chemical Engineering, 2015, 3, 2145-2154.	3.3	40
153	Performance of PAN-based membranes with graft copolymers bearing hydrophilic PVA and PAN segments in direct ultrafiltration of natural rubber effluent. Desalination, 2015, 358, 49-60.	4.0	30
154	Membrane technology enhancement in oilâ€“water separation. A review. Desalination, 2015, 357, 197-207.	4.0	978
155	A combined ion exchangeâ€“nanofiltration process for water desalination: III. Pilot scale studies. Desalination, 2015, 363, 58-63.	4.0	19
156	Thin film composite membrane â€" Recent development and future potential. Desalination, 2015, 356, 140-148.	4.0	245
157	Characterization Methods of Thin Film Composite Nanofiltration Membranes. Separation and Purification Reviews, 2015, 44, 135-156.	2.8	101
158	A combined ion exchangeâ€“nanofiltration process for water desalination: I. sulphateâ€“chloride ion-exchange in saline solutions. Desalination, 2015, 363, 44-50.	4.0	30
159	A combined ion exchangeâ€“nanofiltration process for water desalination: II. Membrane selection. Desalination, 2015, 363, 51-57.	4.0	31
160	A review on the applicability of integrated/hybrid membrane processes in water treatment and desalination plants. Desalination, 2015, 363, 2-18.	4.0	316
161	Nanofiltration membranes review: Recent advances and future prospects. Desalination, 2015, 356, 226-254.	4.0	1,432
162	A comprehensive review on surface modified polymer membranes for biofouling mitigation. Desalination, 2015, 356, 187-207.	4.0	465

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163	Characterisation and quantification of membrane surface properties using atomic force microscopy: A comprehensive review. Desalination, 2015, 356, 149-164.	4.0	77
164	Dual stage PRO process for power generation from different feed resources. Desalination, 2014, 352, 118-127.	4.0	23
165	Pollutants analysis during conventional palm oil mill effluent (POME) ponding system and decolourisation of anaerobically treated POME via calcium lactate-polyacrylamide. Journal of Water Process Engineering, 2014, 4, 159-165.	2.6	40
166	MICROSCOPY | Atomic Force Microscopy. , 2014, , 666-675.		4
167	Underwater superoleophobic cellulose/electrospun PVDFâ€“HFP membranes for efficient oil/water separation. Desalination, 2014, 344, 48-54.	4.0	212
168	Polymeric membranes: Surface modification for minimizing (bio)colloidal fouling. Advances in Colloid and Interface Science, 2014, 206, 116-140.	7.0	211
169	Application of Capacitive Deionisation in water desalination: A review. Desalination, 2014, 342, 3-15.	4.0	413
170	A novel in situ membrane cleaning method using periodic electrolysis. Journal of Membrane Science, 2014, 471, 149-154.	4.1	75
171	The potential of thin film nanocomposite membrane in reducing organic fouling in forward osmosis process. Desalination, 2014, 348, 82-88.	4.0	90
172	Dual-stage forward osmosis/pressure retarded osmosis process for hypersaline solutions and fracking wastewater treatment. Desalination, 2014, 350, 79-85.	4.0	38
173	Predicting the structural parameters of integrally skinned porous membranes. Journal of Membrane Science, 2014, 454, 451-462.	4.1	9
174	Effects of polyaniline nanoparticles in polyethersulfone ultrafiltration membranes: Fouling behaviours by different types of foulant. Journal of Industrial and Engineering Chemistry, 2014, 20, 3134-3140.	2.9	35
175	Description of membrane fouling characteristics during ultrafiltration of organic foulants contained in sweetwater solutions. Journal of Environmental Chemical Engineering, 2014, 2, 1243-1251.	3.3	8
176	Atomic Force Microscopy (AFM). , 2014, , 1-3.		0
177	Treatment of saline solutions using Air Gap Membrane Distillation: Experimental study. Desalination, 2013, 323, 2-7.	4.0	45
178	Hybrid ion exchange â€“ Pressure driven membrane processes in water treatment: A review. Separation and Purification Technology, 2013, 116, 253-264.	3.9	102
179	A review on membrane fabrication: Structure, properties and performance relationship. Desalination, 2013, 326, 77-95.	4.0	823
180	Comparative study of NF and RO membranes in the treatment of produced water II: Toxicity removal efficiency. Desalination, 2013, 315, 27-32.	4.0	33

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181	Identification of foulants, fouling mechanisms and cleaning efficiency for NF and RO treatment of produced water. Separation and Purification Technology, 2013, 118, 324-341.	3.9	43
182	Comparative study of NF and RO membranes in the treatment of produced waterâ€"Part I: Assessing water quality. Desalination, 2013, 315, 18-26.	4.0	80
183	Effect of dry-out on the fouling of PVDF and PTFE membranes under conditions simulating intermittent seawater membrane distillation (SWMD). Journal of Membrane Science, 2013, 438, 126-139.	4.1	114
184	Optimisation of polyethersulfone/polyaniline blended membranes using response surface methodology approach. Desalination, 2013, 311, 182-191.	4.0	42
185	Removal of heavy metal ions by nanofiltration. Desalination, 2013, 315, 2-17.	4.0	441
186	Effect of Hydrodynamic Operations, Salinity, and Heavy Metals on HA Removal by Microfiltration Ceramic Tubular Membrane. Separation Science and Technology, 2013, 48, 564-570.	1.3	6
187	Treatment of highly concentrated dye solution by coagulation/flocculationâ€"sand filtration and nanofiltration. Water Resources and Industry, 2013, 3, 23-34.	1.9	137
188	Polymeric membranes incorporated with metal/metal oxide nanoparticles: A comprehensive review. Desalination, 2013, 308, 15-33.	4.0	805
189	Produced water treatment: Application of Air Gap Membrane Distillation. Desalination, 2013, 309, 46-51.	4.0	176
190	Boron removal in new generation reverse osmosis (RO) membranes using two-pass RO without pH adjustment. Desalination, 2013, 310, 50-59.	4.0	68
191	UV-photografting modification of NF membrane surface for NOM wfouling reduction. Desalination and Water Treatment, 2013, 51, 4855-4861.	1.0	11
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