

# Nidal Hilal

## List of Publications by Year in descending order

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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	Membrane distillation: A comprehensive review. <i>Desalination</i> , 2012, 287, 2-18.	4.0	1,999
2	Nanofiltration membranes review: Recent advances and future prospects. <i>Desalination</i> , 2015, 356, 226-254.	4.0	1,432
3	Membrane technology enhancement in oil-water separation. A review. <i>Desalination</i> , 2015, 357, 197-207.	4.0	978
4	A review on membrane fabrication: Structure, properties and performance relationship. <i>Desalination</i> , 2013, 326, 77-95.	4.0	823
5	Polymeric membranes incorporated with metal/metal oxide nanoparticles: A comprehensive review. <i>Desalination</i> , 2013, 308, 15-33.	4.0	805
6	Reverse osmosis desalination: A state-of-the-art review. <i>Desalination</i> , 2019, 459, 59-104.	4.0	765
7	Characterisation of nanofiltration membranes for predictive purposes – use of salts, uncharged solutes and atomic force microscopy. <i>Journal of Membrane Science</i> , 1997, 126, 91-105.	4.1	649
8	A comprehensive review of nanofiltration membranes: Treatment, pretreatment, modelling, and atomic force microscopy. <i>Desalination</i> , 2004, 170, 281-308.	4.0	643
9	A comprehensive review on surface modified polymer membranes for biofouling mitigation. <i>Desalination</i> , 2015, 356, 187-207.	4.0	465
10	Removal of heavy metal ions by nanofiltration. <i>Desalination</i> , 2013, 315, 2-17.	4.0	441
11	Application of Capacitive Deionisation in water desalination: A review. <i>Desalination</i> , 2014, 342, 3-15.	4.0	413
12	Interaction forces between colloidal particles in liquid: Theory and experiment. <i>Advances in Colloid and Interface Science</i> , 2007, 134-135, 151-166.	7.0	397
13	Methods Employed for Control of Fouling in MF and UF Membranes: A Comprehensive Review. <i>Separation Science and Technology</i> , 2005, 40, 1957-2005.	1.3	368
14	Boron removal from saline water: A comprehensive review. <i>Desalination</i> , 2011, 273, 23-35.	4.0	366
15	Solar powered desalination – Technology, energy and future outlook. <i>Desalination</i> , 2019, 453, 54-76.	4.0	358
16	A review on the applicability of integrated/hybrid membrane processes in water treatment and desalination plants. <i>Desalination</i> , 2015, 363, 2-18.	4.0	316
17	Reverse osmosis pretreatment technologies and future trends: A comprehensive review. <i>Desalination</i> , 2019, 452, 159-195.	4.0	300
18	Coagulation with polymers for nanofiltration pre-treatment of highly concentrated dyes: A review. <i>Desalination</i> , 2011, 266, 1-16.	4.0	286

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19	Energy for desalination: A state-of-the-art review. <i>Desalination</i> , 2020, 491, 114569.	4.0	247
20	Thin film composite membrane " Recent development and future potential. <i>Desalination</i> , 2015, 356, 140-148.	4.0	245
21	Nanofiltration membranes and processes: A review of research trends over the past decade. <i>Journal of Water Process Engineering</i> , 2017, 19, 164-171.	2.6	229
22	Recent trends in membranes and membrane processes for desalination. <i>Desalination</i> , 2016, 391, 43-60.	4.0	223
23	Underwater superoleophobic cellulose/electrospun PVDF" HFP membranes for efficient oil/water separation. <i>Desalination</i> , 2014, 344, 48-54.	4.0	212
24	Polymeric membranes: Surface modification for minimizing (bio)colloidal fouling. <i>Advances in Colloid and Interface Science</i> , 2014, 206, 116-140.	7.0	211
25	Water desalination by forward (direct) osmosis phenomenon: A comprehensive review. <i>Desalination</i> , 2015, 374, 47-69.	4.0	206
26	Osmotic's potential: An overview of draw solutes for forward osmosis. <i>Desalination</i> , 2018, 434, 100-120.	4.0	198
27	Forward osmosis membranes and processes: A comprehensive review of research trends and future outlook. <i>Desalination</i> , 2020, 485, 114455.	4.0	194
28	Development of polysulfone-nanohybrid membranes using ZnO-GO composite for enhanced antifouling and antibacterial control. <i>Desalination</i> , 2017, 402, 123-132.	4.0	183
29	Produced water treatment: Application of Air Gap Membrane Distillation. <i>Desalination</i> , 2013, 309, 46-51.	4.0	176
30	Electrically conductive polymeric membranes for fouling prevention and detection: A review. <i>Desalination</i> , 2016, 391, 1-15.	4.0	165
31	Enhancing oil removal from water using ferric oxide nanoparticles doped carbon nanotubes adsorbents. <i>Chemical Engineering Journal</i> , 2016, 293, 90-101.	6.6	148
32	Ultrafiltration membranes for wastewater and water process engineering: A comprehensive statistical review over the past decade. <i>Journal of Water Process Engineering</i> , 2020, 35, 101241.	2.6	148
33	Nanofiltration thin-film composite polyester polyethersulfone-based membranes prepared by interfacial polymerization. <i>Journal of Membrane Science</i> , 2010, 348, 109-116.	4.1	147
34	Mechanical properties of water desalination and wastewater treatment membranes. <i>Desalination</i> , 2017, 401, 190-205.	4.0	146
35	Modelling and optimization of coagulation of highly concentrated industrial grade leather dye by response surface methodology. <i>Chemical Engineering Journal</i> , 2011, 167, 77-83.	6.6	144
36	Characterisation of nanofiltration membranes using atomic force microscopy. <i>Desalination</i> , 2005, 177, 187-199.	4.0	140

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37	Treatment of highly concentrated dye solution by coagulation/flocculationâ€“sand filtration and nanofiltration. <i>Water Resources and Industry</i> , 2013, 3, 23-34.	1.9	137
38	Kinetics of wetting and spreading by aqueous surfactant solutions. <i>Advances in Colloid and Interface Science</i> , 2008, 144, 54-65.	7.0	135
39	Emerging desalination technologies: Current status, challenges and future trends. <i>Desalination</i> , 2021, 517, 115183.	4.0	133
40	Nanofiltration of highly concentrated salt solutions up to seawater salinity. <i>Desalination</i> , 2005, 184, 315-326.	4.0	131
41	Can machine language and artificial intelligence revolutionize process automation for water treatment and desalination?. <i>Desalination</i> , 2019, 458, 84-96.	4.0	129
42	Hybrid technologies: The future of energy efficient desalination â€“ A review. <i>Desalination</i> , 2020, 495, 114659.	4.0	129
43	Nano-enabled membranes technology: Sustainable and revolutionary solutions for membrane desalination?. <i>Desalination</i> , 2016, 380, 100-104.	4.0	125
44	Concentration of apple juice using direct contact membrane distillation. <i>Desalination</i> , 2006, 190, 117-124.	4.0	122
45	Nuclear desalination: A state-of-the-art review. <i>Desalination</i> , 2019, 457, 39-61.	4.0	122
46	Recent advances in the development of (bio)fouling resistant thin film composite membranes for desalination. <i>Desalination</i> , 2016, 380, 105-111.	4.0	121
47	Microwave heating as a means for carbon fibre recovery from polymer composites: a technical feasibility study. <i>Materials Research Bulletin</i> , 2004, 39, 1549-1556.	2.7	120
48	The use of ultrasound to mitigate membrane fouling in desalination and water treatment. <i>Desalination</i> , 2018, 443, 143-164.	4.0	120
49	Superhydrophobic electrospun membrane for heavy metals removal by air gap membrane distillation (AGMD). <i>Desalination</i> , 2017, 420, 318-329.	4.0	119
50	Microfiltration membrane processes: A review of research trends over the past decade. <i>Journal of Water Process Engineering</i> , 2019, 32, 100941.	2.6	118
51	Forward osmosis research trends in desalination and wastewater treatment: A review of research trends over the past decade. <i>Journal of Water Process Engineering</i> , 2019, 31, 100886.	2.6	117
52	Rejection and modelling of sulphate and potassium salts by nanofiltration membranes: neural network and Spieglerâ€“Kedem model. <i>Desalination</i> , 2007, 206, 42-60.	4.0	116
53	Atomic force microscope studies of membranes: Surface pore structures of Cyclopore and Anopore membranes. <i>Journal of Membrane Science</i> , 1996, 110, 233-238.	4.1	115
54	Can carbon-based nanomaterials revolutionize membrane fabrication for water treatment and desalination?. <i>Desalination</i> , 2016, 391, 69-88.	4.0	115

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55	Advances in forward osmosis membranes: Altering the sub-layer structure via recent fabrication and chemical modification approaches. <i>Desalination</i> , 2018, 436, 176-201.	4.0	115
56	Surface modified polymeric membranes to reduce (bio)fouling: a microbiological study using <i>E. coli</i> . <i>Desalination</i> , 2004, 167, 293-300.	4.0	114
57	Reduction of nanofiltration membrane fouling by UV-initiated graft polymerization technique. <i>Journal of Membrane Science</i> , 2010, 355, 133-141.	4.1	114
58	Heavy Metals Removal Using Adsorption and Nanofiltration Techniques. <i>Separation and Purification Reviews</i> , 2011, 40, 209-259.	2.8	114
59	Effect of dry-out on the fouling of PVDF and PTFE membranes under conditions simulating intermittent seawater membrane distillation (SWMD). <i>Journal of Membrane Science</i> , 2013, 438, 126-139.	4.1	114
60	Functional materials in desalination: A review. <i>Desalination</i> , 2019, 468, 114077.	4.0	111
61	Fouling mitigation in forward osmosis and membrane distillation for desalination. <i>Desalination</i> , 2020, 480, 114338.	4.0	111
62	Enhanced removal of heavy metal ions bound to humic acid by polyelectrolyte flocculation. <i>Separation and Purification Technology</i> , 2006, 51, 48-56.	3.9	110
63	Formation and characterization of polyethersulfone membranes using different concentrations of polyvinylpyrrolidone. <i>Desalination</i> , 2012, 288, 31-39.	4.0	110
64	Membrane separation as a pre-treatment process for oily saline water. <i>Desalination</i> , 2018, 447, 182-202.	4.0	110
65	Potential use of nanofiltration membranes in treatment of industrial wastewater from Ni-P electroless plating. <i>Desalination</i> , 2004, 168, 241-252.	4.0	108
66	Alternative heating techniques in membrane distillation: A review. <i>Desalination</i> , 2020, 496, 114713.	4.0	108
67	A review of efforts to reduce membrane fouling by control of feed spacer characteristics. <i>Desalination</i> , 2017, 420, 384-402.	4.0	104
68	Photochemical modification of membrane surfaces for (bio)fouling reduction: a nano-scale study using AFM. <i>Desalination</i> , 2003, 158, 65-72.	4.0	102
69	Hybrid ion exchange “ Pressure driven membrane processes in water treatment: A review. <i>Separation and Purification Technology</i> , 2013, 116, 253-264.	3.9	102
70	Electrically conductive membranes based on carbon nanostructures for self-cleaning of biofouling. <i>Desalination</i> , 2015, 360, 8-12.	4.0	102
71	Characterization Methods of Thin Film Composite Nanofiltration Membranes. <i>Separation and Purification Reviews</i> , 2015, 44, 135-156.	2.8	101
72	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , 2017, 420, 403-424.	4.0	100

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73	A new technique for membrane characterisation: direct measurement of the force of adhesion of a single particle using an atomic force microscope. <i>Journal of Membrane Science</i> , 1998, 139, 269-274.	4.1	96
74	Prediction of permeate fluxes and rejections of highly concentrated salts in nanofiltration membranes. <i>Journal of Membrane Science</i> , 2007, 289, 40-50.	4.1	96
75	Direct measurement of the force of adhesion of a single biological cell using an atomic force microscope. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 136, 231-234.	2.3	95
76	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. <i>Desalination</i> , 2017, 401, 1-15.	4.0	91
77	Current advances in membrane technologies for saline wastewater treatment: A comprehensive review. <i>Desalination</i> , 2021, 517, 115170.	4.0	91
78	The use of ultrafiltration and nanofiltration membranes in the treatment of metal-working fluids. <i>Desalination</i> , 2004, 167, 227-238.	4.0	90
79	The potential of thin film nanocomposite membrane in reducing organic fouling in forward osmosis process. <i>Desalination</i> , 2014, 348, 82-88.	4.0	90
80	Lithium recovery from brine: Recent developments and challenges. <i>Desalination</i> , 2022, 528, 115611.	4.0	90
81	Direct Measurement of Interactions between Adsorbed Protein Layers Using an Atomic Force Microscope. <i>Journal of Colloid and Interface Science</i> , 1998, 197, 348-352.	5.0	86
82	Robust superhydrophobic electrospun membrane fabricated by combination of electrospinning and electrospraying techniques for air gap membrane distillation. <i>Desalination</i> , 2018, 446, 70-82.	4.0	83
83	Contemporary antibiofouling modifications of reverse osmosis desalination membrane: A review. <i>Desalination</i> , 2019, 468, 114072.	4.0	83
84	An atomic force microscopy study of the adhesion of a silica sphere to a silica surface—effects of surface cleaning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 157, 117-125.	2.3	81
85	Response surface modeling and optimization of composite nanofiltration modified membranes. <i>Journal of Membrane Science</i> , 2010, 349, 113-122.	4.1	80
86	Comparative study of NF and RO membranes in the treatment of produced water—Part I: Assessing water quality. <i>Desalination</i> , 2013, 315, 18-26.	4.0	80
87	Characterisation of membrane surfaces: direct measurement of biological adhesion using an atomic force microscope. <i>Journal of Membrane Science</i> , 1999, 154, 205-212.	4.1	79
88	Treatment of high salinity solutions: Application of air gap membrane distillation. <i>Desalination</i> , 2012, 287, 55-60.	4.0	79
89	Ultrafiltration of water containing natural organic matter: heavy metal removing in the hybrid complexation—ultrafiltration process. <i>Separation and Purification Technology</i> , 2004, 40, 155-162.	3.9	78
90	Characterisation and quantification of membrane surface properties using atomic force microscopy: A comprehensive review. <i>Desalination</i> , 2015, 356, 149-164.	4.0	77

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91	Fabrication and antifouling behaviour of a carbon nanotube membrane. <i>Materials and Design</i> , 2016, 89, 549-558.	3.3	77
92	Quantification of particle–bubble interactions using atomic force microscopy: A review. <i>Advances in Colloid and Interface Science</i> , 2006, 127, 67-81.	7.0	76
93	Atomic force microscopy of nanofiltration membranes: Effect of imaging mode and environment. <i>Journal of Membrane Science</i> , 2012, 389, 486-498.	4.1	76
94	Nanofiltration membrane processes for water recycling, reuse and product recovery within various industries: A review. <i>Journal of Water Process Engineering</i> , 2022, 45, 102478.	2.6	76
95	Development of antifouling properties and performance of nanofiltration membranes modified by interfacial polymerisation. <i>Desalination</i> , 2011, 273, 36-47.	4.0	75
96	A novel in situ membrane cleaning method using periodic electrolysis. <i>Journal of Membrane Science</i> , 2014, 471, 149-154.	4.1	75
97	Air gap membrane distillation: A detailed study of high saline solution. <i>Desalination</i> , 2017, 403, 179-186.	4.0	75
98	Membrane desalination and water re-use for agriculture: State of the art and future outlook. <i>Desalination</i> , 2020, 491, 114559.	4.0	75
99	Lipase-immobilized biocatalytic membranes for enzymatic esterification: Comparison of various approaches to membrane preparation. <i>Journal of Membrane Science</i> , 2006, 268, 198-207.	4.1	72
100	Effect of the surface modification of polymer membranes on their microbiological fouling. <i>Colloid Journal</i> , 2006, 68, 267-273.	0.5	72
101	Thin Film Nanocomposite (TFN) membranes modified with polydopamine coated metals/carbon-nanostructures for desalination applications. <i>Desalination</i> , 2018, 427, 60-74.	4.0	71
102	Fabrication of antibacterial mixed matrix nanocomposite membranes using hybrid nanostructure of silver coated multi-walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2017, 326, 721-736.	6.6	70
103	Surface modified microfiltration membranes with molecularly recognising properties. <i>Journal of Membrane Science</i> , 2003, 213, 97-113.	4.1	68
104	Immobilization of cross-linked lipase aggregates within microporous polymeric membranes. <i>Journal of Membrane Science</i> , 2004, 238, 131-141.	4.1	68
105	Critical wetting concentrations of trisiloxane surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 354, 143-148.	2.3	68
106	Boron removal in new generation reverse osmosis (RO) membranes using two-pass RO without pH adjustment. <i>Desalination</i> , 2013, 310, 50-59.	4.0	68
107	Comprehensive review of membrane design and synthesis for membrane distillation. <i>Desalination</i> , 2021, 518, 115168.	4.0	68
108	Visualisation of an ultrafiltration membrane by non-contact atomic force microscopy at single pore resolution. <i>Journal of Membrane Science</i> , 1996, 110, 229-232.	4.1	67

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109	Boron removal from water with fractionized Amberlite IRA743 resin. <i>Desalination</i> , 2015, 370, 1-6.	4.0	66
110	The role of wastewater treatment plants as tools for SARS-CoV-2 early detection and removal. <i>Journal of Water Process Engineering</i> , 2020, 38, 101544.	2.6	65
111	High recovery rate NF-RO hybrid system for inland brackish water treatment. <i>Desalination</i> , 2015, 363, 19-25.	4.0	64
112	Mathematical and optimization modelling in desalination: State-of-the-art and future direction. <i>Desalination</i> , 2019, 469, 114092.	4.0	64
113	Effective coagulation-flocculation treatment of highly polluted palm oil mill biogas plant wastewater using dual coagulants: Decolourisation, kinetics and phytotoxicity studies. <i>Journal of Water Process Engineering</i> , 2017, 16, 258-269.	2.6	63
114	A study on producing composite nanofiltration membranes with optimized properties. <i>Desalination</i> , 2003, 158, 73-78.	4.0	62
115	Novel low-fouling membrane bioreactor (MBR) for industrial wastewater treatment. <i>Journal of Membrane Science</i> , 2016, 510, 524-532.	4.1	61
116	Atomic force microscope studies of membranes: force measurement and imaging in electrolyte solutions. <i>Journal of Membrane Science</i> , 1997, 126, 77-89.	4.1	60
117	Evaluation of several commercial synthetic polymers as flocculant aids for removal of highly concentrated C.I. Acid Black 210 dye. <i>Journal of Hazardous Materials</i> , 2010, 182, 624-630.	6.5	60
118	Ceramic Microfiltration Membranes in Wastewater Treatment: Filtration Behavior, Fouling and Prevention. <i>Membranes</i> , 2020, 10, 248.	1.4	60
119	Characterization and retention of NF membranes using PEG, HS and polyelectrolytes. <i>Desalination</i> , 2008, 221, 284-293.	4.0	59
120	Comparison of two different UV-grafted nanofiltration membranes prepared for reduction of humic acid fouling using acrylic acid and N-vinylpyrrolidone. <i>Desalination</i> , 2012, 287, 19-29.	4.0	58
121	Effect of Bed Diameter, Distributor and Inserts on Minimum Fluidization Velocity. <i>Chemical Engineering and Technology</i> , 2001, 24, 161.	0.9	57
122	Current status and challenges of fabricating thin film composite forward osmosis membrane: A comprehensive roadmap. <i>Desalination</i> , 2020, 491, 114557.	4.0	56
123	A step forward to a more efficient wastewater treatment by membrane surface modification via polymerizable bicontinuous microemulsion. <i>Journal of Membrane Science</i> , 2015, 482, 103-114.	4.1	55
124	Modelling of air gap membrane distillation and its application in heavy metals removal. <i>Desalination</i> , 2017, 424, 27-36.	4.0	55
125	Spreading of Aqueous Solutions of Trisiloxanes and Conventional Surfactants over PTFE AF Coated Silicone Wafers. <i>Langmuir</i> , 2009, 25, 3564-3570.	1.6	54
126	Atomic Force Microscope Studies of Membranes: Surface Pore Structures of Diaflo Ultrafiltration Membranes. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 350-359.	5.0	52



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127	Optimization of solar-powered reverse osmosis desalination pilot plant using response surface methodology. <i>Desalination</i> , 2010, 261, 284-292.	4.0	52
128	Salinity gradient energy generation by pressure retarded osmosis: A review. <i>Desalination</i> , 2021, 500, 114841.	4.0	52
129	Ion Exchange Extraction of Heavy Metal Ions from Wastewater. <i>Separation Science and Technology</i> , 2005, 39, 2031-2040.	1.3	51
130	Scale formation in desalination plants: effect of carbon dioxide solubility. <i>Desalination</i> , 2007, 204, 385-402.	4.0	51
131	Simulation and optimisation of extractive distillation with water as solvent. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 345-351.	1.8	50
132	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. <i>Analytical Methods</i> , 2015, 7, 2693-2698.	1.3	50
133	A comparative study of the flocculation behaviour and final properties of synthetic and activated sludge in wastewater treatment. <i>Desalination</i> , 2007, 204, 277-295.	4.0	48
134	Neural Networks Simulation of the Filtration of Sodium Chloride and Magnesium Chloride Solutions Using Nanofiltration Membranes. <i>Chemical Engineering Research and Design</i> , 2007, 85, 417-430.	2.7	48
135	Nanocomposite nanofiltration membranes: State of play and recent advances. <i>Desalination</i> , 2022, 524, 115480.	4.0	48
136	Copper removal from aqueous solutions using nano-scale diboron trioxide/titanium dioxide (B <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> ) adsorbent. <i>Chemical Engineering Journal</i> , 2012, 183, 294-302.	6.6	47
137	An integrated fertilizer driven forward osmosis- renewables powered membrane distillation system for brackish water desalination: A combined experimental and theoretical approach. <i>Desalination</i> , 2019, 471, 114126.	4.0	47
138	Using atomic force microscopy towards improvement in nanofiltration membranes properties for desalination pre-treatment: a review. <i>Desalination</i> , 2003, 157, 137-144.	4.0	46
139	Flux decline study during ultrafiltration of glycerin-rich fatty acid solutions. <i>Journal of Membrane Science</i> , 2010, 351, 75-86.	4.1	46
140	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. <i>Desalination</i> , 2016, 379, 172-181.	4.0	46
141	Nanofiltration membrane modification by UV grafting for salt rejection and fouling resistance improvement for brackish water desalination. <i>Desalination</i> , 2012, 295, 16-25.	4.0	45
142	Treatment of saline solutions using Air Gap Membrane Distillation: Experimental study. <i>Desalination</i> , 2013, 323, 2-7.	4.0	45
143	Strategies in Forward Osmosis Membrane Substrate Fabrication and Modification: A Review. <i>Membranes</i> , 2020, 10, 332.	1.4	45
144	Identification of foulants, fouling mechanisms and cleaning efficiency for NF and RO treatment of produced water. <i>Separation and Purification Technology</i> , 2013, 118, 324-341.	3.9	43

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145	Hybrid chitosan/FeCl <sub>3</sub> coagulation-membrane processes: Performance evaluation and membrane fouling study in removing natural organic matter. <i>Separation and Purification Technology</i> , 2015, 152, 23-31.	3.9	43
146	A planned review on designing of high-performance nanocomposite nanofiltration membranes for pollutants removal from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 101, 78-125.	2.9	43
147	Sensitivity analysis and faults diagnosis using artificial neural networks in natural gas TEG-dehydration plants. <i>Chemical Engineering Journal</i> , 2008, 137, 189-197.	6.6	42
148	Artificial neural network simulation of combined humic substance coagulation and membrane filtration. <i>Chemical Engineering Journal</i> , 2008, 141, 27-34.	6.6	42
149	Optimisation of polyethersulfone/polyaniline blended membranes using response surface methodology approach. <i>Desalination</i> , 2013, 311, 182-191.	4.0	42
150	Modeling and optimization of a solar forward osmosis pilot plant by response surface methodology. <i>Solar Energy</i> , 2016, 137, 290-302.	2.9	42
151	Preparation and characterization of novel porous PMMA-SiO <sub>2</sub> hybrid membranes. <i>Desalination</i> , 2006, 192, 262-270.	4.0	41
152	Layer-by-layer surface modification of polyethersulfone membranes using polyelectrolytes and AgCl/TiO <sub>2</sub> xerogels. <i>Journal of Membrane Science</i> , 2015, 493, 807-819.	4.1	41
153	Unlocking the application potential of forward osmosis through integrated/hybrid process. <i>Science of the Total Environment</i> , 2020, 706, 136047.	3.9	41
154	A Review of Atomic Force Microscopy Applied to Cell Interactions with Membranes. <i>Chemical Engineering Research and Design</i> , 2006, 84, 282-292.	2.7	40
155	Pollutants analysis during conventional palm oil mill effluent (POME) ponding system and decolourisation of anaerobically treated POME via calcium lactate-polyacrylamide. <i>Journal of Water Process Engineering</i> , 2014, 4, 159-165.	2.6	40
156	Coagulation/flocculation of lignin aqueous solution in single stage mixing tank system: Modeling and optimization by response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2145-2154.	3.3	40
157	Comparison between dual-layer (superhydrophobic-hydrophobic) and single superhydrophobic layer electrospun membranes for heavy metal recovery by air-gap membrane distillation. <i>Desalination</i> , 2018, 439, 31-45.	4.0	40
158	Breakthroughs in the fabrication of electrospun-nanofiber-supported thin film composite/nanocomposite membranes for the forward osmosis process: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1727-1795.	6.6	40
159	Treatment of textile wastewater by submerged membrane bioreactor: In-vitro bioassays for the assessment of stress response elicited by raw and reclaimed wastewater. <i>Journal of Environmental Management</i> , 2015, 160, 184-192.	3.8	39
160	Investigation of UF membranes fouling and potentials as pre-treatment step in desalination and surface water applications. <i>Desalination</i> , 2018, 432, 115-127.	4.0	39
161	Electrospun membranes for membrane distillation: The state of play and recent advances. <i>Desalination</i> , 2022, 526, 115511.	4.0	39
162	Dual-stage forward osmosis/pressure retarded osmosis process for hypersaline solutions and fracking wastewater treatment. <i>Desalination</i> , 2014, 350, 79-85.	4.0	38

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