

Raed Hashaikeh

List of Publications by Year in Descending Order

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Version: 2024-04-28

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

105
papers

4,437
citations

30
h-index

64
g-index

112
ext. papers

5,380
ext. citations

6.6
avg, IF

6.52
L-index

#	Paper	IF	Citations
105	Electrically conductive membranes for contemporaneous dye rejection and degradation. <i>Chemical Engineering Journal</i> , 2022 , 428, 131184	14.7	7
104	Intermittent direct joule heating of membrane surface for seawater desalination by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2022 , 648, 120390	9.6	1
103	Shifting to transparent/hazy properties: The case of alginate/network cellulose all-polysaccharide composite films.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200172	4.8	1
102	Thermoelectric heating and cooling for efficient membrane distillation. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101540	5.6	2
101	Titanium coating on ultrafiltration inorganic membranes for fouling control. <i>Separation and Purification Technology</i> , 2021 , 119997	8.3	1
100	Enhancing DCMD vapor flux of PVDF-HFP membrane with hydrophilic silica fibers. <i>Separation and Purification Technology</i> , 2021 , 263, 118361	8.3	3
99	Selective electrochemical separation and recovery of calcium and magnesium from brine. <i>Separation and Purification Technology</i> , 2021 , 264, 118416	8.3	5
98	Electro-ceramic self-cleaning membranes for biofouling control and prevention in water treatment. <i>Chemical Engineering Journal</i> , 2021 , 415, 128395	14.7	12
97	Electrochemical precipitation to reduce waste brine salinity. <i>Desalination</i> , 2021 , 498, 114796	10.3	7
96	Superhydrophilic and underwater superoleophobic nano zeolite membranes for efficient oil-in-water nanoemulsion separation. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101802	6.7	10
95	Hierarchical underwater oleophobic electro-ceramic/carbon nanostructure membranes for highly efficient oil-in-water separation. <i>Separation and Purification Technology</i> , 2021 , 275, 119241	8.3	7
94	Catalytic Cracking of n-Hexadecane Using Carbon Nanostructures/Nano-Zeolite-Y Composite Catalyst. <i>Catalysts</i> , 2020 , 10, 1385	4	5
93	Energy for desalination: A state-of-the-art review. <i>Desalination</i> , 2020 , 491, 114569	10.3	113
92	Breaking through the selectivity-permeability tradeoff using nano zeolite-Y for micellar enhanced ultrafiltration dye rejection application. <i>Separation and Purification Technology</i> , 2020 , 242, 116824	8.3	19
91	Numerical simulation and evaluation of spacer-filled direct contact membrane distillation module. <i>Applied Water Science</i> , 2020 , 10,	5	2
90	Incorporation of nanosized LTL zeolites in dual-layered PVDF-HFP/cellulose membrane for enhanced membrane distillation performance. <i>Journal of Membrane Science</i> , 2020 , 611, 118298	9.6	16
89	Enhanced performance of direct contact membrane distillation via selected electrothermal heating of membrane surface. <i>Journal of Membrane Science</i> , 2020 , 610, 118224	9.6	15

88	Nanocrystalline NiWO ₄ -WO ₃ -WO _{2.9} Composite Strings: Fabrication, Characterization and their Electrocatalytic Performance for Hydrogen Evolution Reaction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1264-1274	2.3	6
87	Hybrid technologies: The future of energy efficient desalination – A review. <i>Desalination</i> , 2020 , 495, 114650.3	5.3	60
86	Alternative heating techniques in membrane distillation: A review. <i>Desalination</i> , 2020 , 496, 114713	10.3	30
85	Fouling control in reverse osmosis membranes through modification with conductive carbon nanostructures. <i>Desalination</i> , 2019 , 470, 114118	10.3	18
84	Flux and salt rejection enhancement of polyvinyl(alcohol) reverse osmosis membranes using nano-zeolite. <i>Desalination</i> , 2019 , 470, 114104	10.3	23
83	Design and performance evaluation of a portable hybrid desalination unit using direct contact membrane distillation in dual configuration. <i>Energy Procedia</i> , 2019 , 158, 904-910	2.3	5
82	Microfiltration membrane processes: A review of research trends over the past decade. <i>Journal of Water Process Engineering</i> , 2019 , 32, 100941	6.7	65
81	Refinery processed water treatment via the low energy Direct Contact Membrane Distillation (DCMD). <i>Oil and Gas Science and Technology</i> , 2019 , 74, 3	1.9	6
80	Obtaining high crystalline ball milled H-Y zeolite particles with carbon nanostructures as a damping material. <i>Microporous and Mesoporous Materials</i> , 2019 , 273, 19-25	5.3	16
79	Mathematical and optimization modelling in desalination: State-of-the-art and future direction. <i>Desalination</i> , 2019 , 469, 114092	10.3	41
78	Functional materials in desalination: A review. <i>Desalination</i> , 2019 , 468, 114077	10.3	70
77	Nanosopic and Macro-Porous Carbon Nano-foam Electrodes with Improved Mass Transport for Vanadium Redox Flow Batteries. <i>Scientific Reports</i> , 2019 , 9, 17655	4.9	10
76	Reverse osmosis pretreatment technologies and future trends: A comprehensive review. <i>Desalination</i> , 2019 , 452, 159-195	10.3	175
75	Development of a dual-layered PVDF-HFP/cellulose membrane with dual wettability for desalination of oily wastewater. <i>Journal of Membrane Science</i> , 2019 , 570-571, 418-426	9.6	22
74	Solar powered desalination – Technology, energy and future outlook. <i>Desalination</i> , 2019 , 453, 54-76	10.3	198
73	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
72	Electrochemical water splitting using nano-zeolite Y supported tungsten oxide electrocatalysts. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	18
71	Novel technique for fabrication of electrospun membranes with high hydrophobicity retention. <i>Desalination</i> , 2018 , 436, 98-106	10.3	11

70	Cyclable membraneless redox flow batteries based on immiscible liquid electrolytes: Demonstration with all-iron redox chemistry. <i>Electrochimica Acta</i> , 2018 , 267, 41-50	6.7	19
69	Hydrocracking of Athabasca VR Using NiO-WO ₃ Zeolite-Based Catalysts. <i>Energy & Fuels</i> , 2018 , 32, 2224-2233	4.1	16
68	Electrically conductive membranes for in situ fouling detection in membrane distillation using impedance spectroscopy. <i>Journal of Membrane Science</i> , 2018 , 556, 66-72	9.6	20
67	Ni W/nano zeolite Y catalysts for n-heptane hydrocracking. <i>Materials Chemistry and Physics</i> , 2018 , 212, 87-94	4.4	17
66	Thermal efficiency enhancement of the direct contact membrane distillation: Conductive layer integration and geometrical undulation. <i>Applied Energy</i> , 2018 , 227, 7-17	10.7	13
65	Photoelectrochemical activity of electrospun WO ₃ /NiWO ₄ nanofibers under visible light irradiation. <i>Journal of Materials Science</i> , 2018 , 53, 2208-2220	4.3	17
64	Insight into ball milling for size reduction and nanoparticles production of H-Y zeolite. <i>Materials Chemistry and Physics</i> , 2018 , 220, 322-330	4.4	15
63	Hierarchical nano zeolite-Y hydrocracking composite fibers with highly efficient hydrocracking capability.. <i>RSC Advances</i> , 2018 , 8, 16703-16715	3.7	27
62	Assessment of direct contact membrane distillation under different configurations, velocities and membrane properties. <i>Applied Energy</i> , 2017 , 185, 2058-2073	10.7	36
61	Membrane-based detection of wetting phenomenon in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 535, 89-93	9.6	38
60	Electrically conductive spacers for self-cleaning membrane surfaces via periodic electrolysis. <i>Desalination</i> , 2017 , 416, 16-23	10.3	25
59	Electrospun nickeltungsten oxide composite fibers as active electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Science</i> , 2017 , 52, 7269-7281	4.3	37
58	Numerical investigation of air gap membrane distillation (AGMD): Seeking optimal performance. <i>Desalination</i> , 2017 , 424, 122-130	10.3	29
57	A facile approach to fabricate superhydrophobic membranes with low contact angle hysteresis. <i>Journal of Membrane Science</i> , 2017 , 539, 144-151	9.6	23
56	Electrospun Ni-W/zeolite composite fibers for n-heptane hydrocracking and hydroisomerization. <i>Materials Chemistry and Physics</i> , 2017 , 200, 146-154	4.4	20
55	A review of efforts to reduce membrane fouling by control of feed spacer characteristics. <i>Desalination</i> , 2017 , 420, 384-402	10.3	69
54	Evaluation of Thermal Efficiency of Membrane Distillation under Conductive Layer Integration. <i>Energy Procedia</i> , 2017 , 105, 4935-4942	2.3	2
53	Electrically conducting nanofiltration membranes based on networked cellulose and carbon nanostructures. <i>Desalination</i> , 2017 , 406, 60-66	10.3	18

52	Low Energy Membrane Distillation: A Numerical Study on The Role of Conductive Spacers. <i>Energy Procedia</i> , 2017 , 142, 4056-4063	2.3	6
51	Photocatalytic activity of an electrophoretically deposited composite titanium dioxide membrane using carbon cloth as a conducting substrate. <i>RSC Advances</i> , 2016 , 6, 64219-64227	3.7	5
50	Gas sensing behavior of electrospun nickel oxide nanofibers: Effect of morphology and microstructure. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 54-64	8.5	41
49	Electrically conductive polymeric membranes for fouling prevention and detection: A review. <i>Desalination</i> , 2016 , 391, 1-15	10.3	114
48	Electrospun zeolite-Y fibers: Fabrication and morphology analysis. <i>Microporous and Mesoporous Materials</i> , 2016 , 233, 78-86	5.3	34
47	Fabrication of electrospun LTL zeolite fibers and their application for dye removal. <i>Journal of Materials Science</i> , 2016 , 51, 1133-1141	4.3	25
46	Carbon nanostructures modified LiFePO ₄ cathodes for lithium ion battery applications: optimized porosity and composition. <i>Materials Research Express</i> , 2016 , 3, 125008	1.7	5
45	Theoretical and experimental study of direct contact membrane distillation. <i>Desalination and Water Treatment</i> , 2016 , 57, 15660-15675		7
44	Nickel oxide nanocrystals as a lithium-ion battery anode: structure-performance relationship. <i>Journal of Materials Science</i> , 2016 , 51, 6624-6638	4.3	24
43	A review on the fabrication of zeolite and mesoporous inorganic nanofibers formation for catalytic applications. <i>Microporous and Mesoporous Materials</i> , 2016 , 236, 176-192	5.3	53
42	Sulfated Cellulose/Polyvinyl Alcohol Composites as Proton Conducting Electrolyte for Capacitors. <i>Energy Procedia</i> , 2015 , 75, 1869-1874	2.3	7
41	Electrospun nickel oxide nanofibers: Microstructure and surface evolution. <i>Applied Surface Science</i> , 2015 , 357, 1333-1342	6.7	4
40	Nanomanifestations of Cellulose: Applications for Biodegradable Composites 2015 , 229-248		3
39	A review on electrospinning for membrane fabrication: Challenges and applications. <i>Desalination</i> , 2015 , 356, 15-30	10.3	602
38	Electrospun copper oxide nanofibers as infrared photodetectors. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 217-224	2.6	4
37	Low Energy Direct Contact Membrane Desalination: Conjugated Heat and High Fidelity Flow Simulation. <i>Energy Procedia</i> , 2015 , 75, 1722-1727	2.3	5
36	Flexible carbon nanostructures with electrospun nickel oxide as a lithium-ion battery anode. <i>Ionics</i> , 2015 , 21, 2755-2762	2.7	14
35	Electrically conductive membranes based on carbon nanostructures for self-cleaning of biofouling. <i>Desalination</i> , 2015 , 360, 8-12	10.3	81

34	Microbundles of carbon nanostructures as binder free highly conductive matrix for LiFePO ₄ battery cathode. <i>Journal of Power Sources</i> , 2015 , 278, 314-319	8.9	24
33	Synthesis and morphology analysis of electrospun copper nanowires. <i>Journal of Materials Science</i> , 2014 , 49, 3052-3065	4.3	28
32	Nanocrystalline cellulose reinforced PVDF-HFP membranes for membrane distillation application. <i>Desalination</i> , 2014 , 332, 134-141	10.3	132
31	A novel in situ membrane cleaning method using periodic electrolysis. <i>Journal of Membrane Science</i> , 2014 , 471, 149-154	9.6	57
30	Optimum loading level of nanoclay in PLA nanocomposites: Impact on the mechanical properties and glass transition temperature. <i>Journal of Thermoplastic Composite Materials</i> , 2014 , 27, 1461-1478	1.9	16
29	Electrospun copper oxide nanoparticles as an efficient heterogeneous catalyst for N-arylation of indole. <i>Tetrahedron Letters</i> , 2014 , 55, 5973-5975	2	12
28	Isolation of a novel, crystalline cellulose material from the spent liquor of cellulose nanocrystals (CNCs). <i>Cellulose</i> , 2014 , 21, 3217-3229	5.5	17
27	Ternary polymer electrolyte with enhanced ionic conductivity and thermo-mechanical properties for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2964-2970	6.7	14
26	Electrospinning of nickel oxide nanofibers: Process parameters and morphology control. <i>Materials Characterization</i> , 2014 , 95, 65-71	3.9	19
25	Facile Synthesis of Copper Oxide Nanoparticles via Electrospinning. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	10
24	Numerical simulation of membrane desalination in a conjugated heat transfer configuration: Role of spacers 2014 ,		2
23	Underwater superoleophobic cellulose/electrospun PVDF/HFP membranes for efficient oil/water separation. <i>Desalination</i> , 2014 , 344, 48-54	10.3	185
22	Controlling swelling behavior of poly (vinyl) alcohol via networked cellulose and its application as a reverse osmosis membrane. <i>Desalination</i> , 2014 , 336, 138-145	10.3	25
21	Electrospun cellulose/PEO fiber mats as a solid polymer electrolytes for Li ion batteries. <i>Renewable Energy</i> , 2013 , 56, 90-95	8.1	50
20	A review on membrane fabrication: Structure, properties and performance relationship. <i>Desalination</i> , 2013 , 326, 77-95	10.3	606
19	Preparation and characterization of electrospun PLA/nanocrystalline cellulose-based composites. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 3345-3354	2.9	42
18	Nanocrystalline cellulose extraction process and utilization of the byproduct for biofuels production. <i>Carbohydrate Polymers</i> , 2013 , 93, 357-63	10.3	41
17	Nanocrystalline cellulose-reinforced composite mats for lithium-ion batteries: electrochemical and thermomechanical performance. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 575-581	2.6	46

16	Preparation of Biodegradable Poly(lactic Acid) Electrospun Membrane with Decreased Pore Size by Post Heat Treatment. <i>Key Engineering Materials</i> , 2013 , 594-595, 260-269	0.4		
15	Development of eco-efficient micro-porous membranes via electrospinning and annealing of poly (lactic acid). <i>Journal of Membrane Science</i> , 2013 , 436, 57-67	9.6	70	
14	Fabrication and characterization of polyvinylidene fluoride-co-hexafluoropropylene (PVDF-HFP) electrospun membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2013 , 428, 104-115	9.6	258	
13	Fog-harvesting potential of lubricant-impregnated electrospun nanomats. <i>Langmuir</i> , 2013 , 29, 13081-8	4	87	
12	Electrospun metallic nanowires: Synthesis, characterization, and applications. <i>Journal of Applied Physics</i> , 2013 , 114, 171301	2.5	25	
11	Networked cellulose entrapped and reinforced PEO-based solid polymer electrolyte for moderate temperature applications. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2998-3006	2.9	14	
10	Microcrystalline cellulose powder tableting via networked cellulose-based gel material. <i>Powder Technology</i> , 2012 , 217, 16-20	5.2	6	
9	PEG based quasi-solid polymer electrolyte: Mechanically supported by networked cellulose. <i>Journal of Membrane Science</i> , 2012 , 421-422, 85-90	9.6	25	
8	Nanoscale Thermal Analysis of Multiphase Polymer Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8849-8856	3.8	13	
7	Cellulose/PEO blends with enhanced water absorption and retention functionality. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2121-2127	2.9	7	
6	Nanocrystalline-cellulose-reinforced poly(vinylidene fluoride-co-hexafluoropropylene) nanocomposite films as a separator for lithium ion batteries. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E442-E448	2.9	26	
5	Enzymatic hydrolysis of cellulose and the use of TiO ₂ nanoparticles to open up the cellulose structure. <i>Biomass and Bioenergy</i> , 2011 , 35, 3970-3975	5.3	16	
4	Acid mediated networked cellulose: Preparation and characterization. <i>Carbohydrate Polymers</i> , 2011 , 83, 1088-1094	10.3	40	
3	Modified cellulose morphologies and its composites; SEM and TEM analysis. <i>Micron</i> , 2011 , 42, 751-61	2.3	34	
2	Direct contact membrane distillation: the role of membrane porosity	100	258-267	3
1	3D printed electrically conductive interdigitated spacer on ultrafiltration membrane for electrolytic cleaning and chlorination. <i>Journal of Applied Polymer Science</i> , 52292	2.9	0	