

Tao He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6016423/publications.pdf>

Version: 2024-02-01

111
papers

6,237
citations

71102

41
h-index

71685

76
g-index

112
all docs

112
docs citations

112
times ranked

5235
citing authors

#	ARTICLE	IF	CITATIONS
1	Acid stable layer-by-layer nanofiltration membranes for phosphoric acid purification. <i>Journal of Membrane Science</i> , 2022, 644, 120090.	8.2	20
2	Scaling resistance by fluoro-treatments: the importance of wetting states. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3058-3068.	10.3	13
3	Impact of dithiocarbamate-based polymeric additives on the performance of polyethersulfone membrane for the treatment of arsenic contaminated waters. <i>Chemical Engineering Research and Design</i> , 2022, 158, 589-606.	5.6	15
4	Unprecedented Mg ²⁺ /Li ⁺ separation using layer-by-layer based nanofiltration hollow fiber membranes. <i>Desalination</i> , 2022, 525, 115492.	8.2	57
5	Evidence of high temperature stable performance of polyether ether ketone (PEEK) separator with sponge-structured in lithium-ion battery. <i>Journal of Materials Science</i> , 2022, 57, 7042-7055.	3.7	11
6	Concentrating phosphoric acid by direct contact membrane distillation using a low-cost polyethylene separator. <i>Desalination</i> , 2022, 530, 115664.	8.2	6
7	Negative Pressure Membrane Distillation for Excellent Gypsum Scaling Resistance and Flux Enhancement. <i>Environmental Science & Technology</i> , 2022, 56, 1405-1412.	10.0	26
8	Stable fouling resistance of polyethylene (PE) separator membrane via oxygen plasma plus zwitterion grafting. <i>Separation and Purification Technology</i> , 2022, 293, 121091.	7.9	11
9	Layer-by-layer (LBL) hollow fiber nanofiltration membranes for seawater treatment: Ion rejection. <i>Desalination</i> , 2022, 534, 115793.	8.2	26
10	Fabrication of dialyzer membrane-based forward osmosis modules via vacuum-assisted interfacial polymerization for the preparation of dialysate. <i>Journal of Membrane Science</i> , 2022, 659, 120814.	8.2	1
11	Sustainable fertilizer-drawn forward osmosis for the vegetable industry in reducing liquor from vegetable waste. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 388-396.	2.2	4
12	Membrane distillation treating a real petrochemical reverse osmosis concentrate: Influence of membrane characteristics on the process performance. <i>Journal of Water Process Engineering</i> , 2021, 39, 101722.	5.6	5
13	Understanding the fouling/scaling resistance of superhydrophobic/omniphobic membranes in membrane distillation. <i>Desalination</i> , 2021, 499, 114864.	8.2	86
14	Seawater desalination technology and engineering in China: A review. <i>Desalination</i> , 2021, 498, 114728.	8.2	163
15	Operation of Three-Stage Process of Lithium Recovery from Geothermal Brine: Simulation. <i>Membranes</i> , 2021, 11, 175.	3.0	12
16	Mitigation of gypsum and silica scaling in membrane distillation by pulse flow operation. <i>Journal of Membrane Science</i> , 2021, 624, 119107.	8.2	35
17	Thin-film distillation coupled with membrane condenser for brine solutions concentration. <i>Desalination</i> , 2021, 503, 114956.	8.2	13
18	Extraction of lithium from Chinese salt-lake brines by membranes: Design and practice. <i>Journal of Membrane Science</i> , 2021, 635, 119441.	8.2	146

#	ARTICLE	IF	CITATIONS
19	Interconnected Porous Poly(ether imide) Separator for Thermally Stable Sodium Ion Battery. ACS Applied Energy Materials, 2021, 4, 11080-11089.	5.1	9
20	Feasibility of osmotic dilution for recycling spent dialysate: Process performance, scaling, and economic evaluation. Water Research, 2020, 168, 115157.	11.3	12
21	Direct preparation of dialysate from tap water via osmotic dilution. Journal of Membrane Science, 2020, 598, 117659.	8.2	8
22	Unprecedented scaling/fouling resistance of omniphobic polyvinylidene fluoride membrane with silica nanoparticle coated micropillars in direct contact membrane distillation. Journal of Membrane Science, 2020, 599, 117819.	8.2	81
23	A novel all solid-state asymmetric supercapacitor with superior electrochemical performance in a wide temperature range using a hydroquinone modified graphene xerogel as the cathode and N-doped Ti ₃ C ₂ T _x as the anode. Journal of Materials Chemistry A, 2020, 8, 1687-1696.	10.3	36
24	Improvement of permeability and rejection of an acid resistant polysulfonamide thin-film composite nanofiltration membrane by a sulfonated poly(ether ether ketone) interlayer. Separation and Purification Technology, 2020, 239, 116528.	7.9	44
25	Simultaneous cooling and provision of make-up water by forward osmosis for post-combustion CO ₂ capture. Desalination, 2020, 476, 114215.	8.2	4
26	Membrane chemical exchange for lithium isotope enrichment(II): Multistage cascade process. Fusion Engineering and Design, 2020, 160, 111821.	1.9	10
27	Impact of SPEEK on PEEK membranes: Demixing, morphology and performance enhancement in lithium membrane extraction. Journal of Membrane Science, 2020, 615, 118448.	8.2	22
28	Recycling water from spent dialysate by osmotic dilution: Impact of urea rejection of forward osmosis membrane on hemodialysis duration. Desalination, 2020, 496, 114605.	8.2	4
29	Polyethersulfone hollow fiber membranes prepared with Polarclean [®] as a more sustainable solvent. Journal of Membrane Science, 2020, 608, 118216.	8.2	41
30	Fouling resistance of 3-[[3-(trimethoxysilane)-propyl] amino] propane-1-sulfonic acid zwitterion modified poly(vinylidene fluoride) membranes. Separation and Purification Technology, 2020, 239, 116589.	7.9	20
31	Increasing lithium extraction performance by adding sulfonated poly(ether ether ketone) into block copolymer ethylene vinyl alcohol membrane. Journal of Chemical Technology and Biotechnology, 2020, 95, 1559-1568.	3.2	7
32	Anisotropic performance of a superhydrophobic polyvinyl difluoride membrane with corrugated pattern in direct contact membrane distillation. Desalination, 2020, 481, 114363.	8.2	26
33	Synergy of slippery surface and pulse flow: An anti-scaling solution for direct contact membrane distillation. Journal of Membrane Science, 2020, 603, 118035.	8.2	35
34	Seawater-driven forward osmosis for pre-concentrating nutrients in digested sludge centrate. Journal of Environmental Management, 2019, 247, 135-139.	7.8	23
35	Enabling sustainable green close-loop membrane lithium extraction by acid and solvent resistant poly(ether ether ketone) membrane. Journal of Membrane Science, 2019, 589, 117273.	8.2	40
36	Novel low cost hybrid extraction-distillation-reverse osmosis process for complete removal of N,N-dimethylformamide from industrial wastewater. Chemical Engineering Research and Design, 2019, 130, 317-325.	5.6	21

#	ARTICLE	IF	CITATIONS
37	Harvesting vapor by hygroscopic acid to create pore: Morphology, crystallinity and performance of poly (ether ether ketone) lithium ion battery separator. <i>Journal of Membrane Science</i> , 2019, 577, 1-11.	8.2	35
38	3-[[3-(Triethoxysilyl)-propyl] amino] propane-1-sulfonic acid zwitterion grafted polyvinylidene fluoride antifouling membranes for concentrating greywater in direct contact membrane distillation. <i>Desalination</i> , 2019, 455, 71-78.	8.2	24
39	Scaling mitigation in membrane distillation: From superhydrophobic to slippery. <i>Desalination</i> , 2019, 466, 36-43.	8.2	117
40	Impact of the ethylene content on poly (ethylene-co-vinyl alcohol) membrane morphology and performance via immersion precipitation for lithium extraction. <i>Journal of Membrane Science</i> , 2019, 579, 172-179.	8.2	22
41	Forward osmosis concentration of a vanadium leaching solution. <i>Journal of Membrane Science</i> , 2019, 582, 164-171.	8.2	15
42	Biogas slurry as draw solution of forward osmosis process to extract clean water from micro-polluted water for hydroponic cultivation. <i>Journal of Membrane Science</i> , 2019, 576, 88-95.	8.2	18
43	The excellent capacitive capability for N,P-doped carbon microsphere/reduced graphene oxide nanocomposites in H ₂ SO ₄ /KI redox electrolyte. <i>Journal of Materials Science</i> , 2019, 54, 7665-7678.	3.7	32
44	From trace to pure: Recovery of scandium from the waste acid of titanium pigment production by solvent extraction. <i>Chemical Engineering Research and Design</i> , 2019, 121, 118-124.	5.6	29
45	Hyperbranched poly(amidoamine)/TMC reverse osmosis membrane for oily saline water treatment. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2779-2788.	2.2	16
46	Slippery for scaling resistance in membrane distillation: A novel porous micropillared superhydrophobic surface. <i>Water Research</i> , 2019, 155, 152-161.	11.3	183
47	Concentrating underground brine using a TFC hollow fiber forward osmosis membrane: effects of cleaning. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 851-862.	2.4	7
48	Zwitterionic surface modification of forward osmosis membranes using N -aminoethyl piperazine propane sulfonate for grey water treatment. <i>Chemical Engineering Research and Design</i> , 2018, 116, 632-639.	5.6	40
49	A critical review on membrane extraction with improved stability: Potential application for recycling metals from city mine. <i>Desalination</i> , 2018, 440, 18-38.	8.2	58
50	Physical cleaning techniques to control fouling during the pre-concentration of high suspended-solid content solutions for resource recovery by forward osmosis. <i>Desalination</i> , 2018, 429, 134-141.	8.2	27
51	Polymeric antimicrobial membranes enabled by nanomaterials for water treatment. <i>Journal of Membrane Science</i> , 2018, 550, 173-197.	8.2	198
52	Preparation of omniphobic PVDF membrane with hierarchical structure for treating saline oily wastewater using direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2018, 555, 197-205.	8.2	156
53	Selective separation of copper and nickel by membrane extraction using hydrophilic nanoporous ion-exchange barrier membranes. <i>Chemical Engineering Research and Design</i> , 2018, 113, 1-9.	5.6	42
54	Concentrating greywater using hollow fiber thin film composite forward osmosis membranes: Fouling and process optimization. <i>Chemical Engineering Science</i> , 2018, 190, 140-148.	3.8	32

#	ARTICLE	IF	CITATIONS
55	CF4 plasma-modified omniphobic electrospun nanofiber membrane for produced water brine treatment by membrane distillation. <i>Journal of Membrane Science</i> , 2017, 529, 234-242.	8.2	170
56	Anti-wetting behavior of negatively charged superhydrophobic PVDF membranes in direct contact membrane distillation of emulsified wastewaters. <i>Journal of Membrane Science</i> , 2017, 535, 230-238.	8.2	126
57	Lithium extraction from Chinese salt-lake brines: opportunities, challenges, and future outlook. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 593-597.	2.4	122
58	Phenol rejection by cellulose triacetate and thin film composite forward osmosis membranes. <i>Separation and Purification Technology</i> , 2017, 186, 45-54.	7.9	30
59	Liquid desiccant lithium chloride regeneration by membrane distillation for air conditioning. <i>Separation and Purification Technology</i> , 2017, 177, 121-128.	7.9	65
60	Open porous hydrophilic supported thin-film composite forward osmosis membrane via co-casting for treatment of high-salinity wastewater. <i>Desalination</i> , 2017, 405, 76-84.	8.2	72
61	Sustainable Route in Preparation of Polymeric Membranes. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 97-120.	0.7	3
62	Laminated PTFE membranes to enhance the performance in direct contact membrane distillation for high salinity solution. <i>Desalination</i> , 2017, 424, 140-148.	8.2	35
63	Recovery of lithium from salt lake brine of high Mg/Li ratio using Na[FeCl ₄ 2TBP] as extractant: Thermodynamics, kinetics and processes. <i>Hydrometallurgy</i> , 2017, 173, 63-70.	4.3	53
64	The role of the surfactant sodium dodecyl sulfate to dynamically reduce mass transfer resistance of SPEEK coated membrane for oil-in-water emulsion treatment. <i>Journal of Membrane Science</i> , 2017, 541, 9-18.	8.2	27
65	2.5 Forward Osmosis and Forward Osmosis Membranes. , 2017, , 95-123.		7
66	Preparation of hierarchical porous graphene nanosheets with high specific surface area and their electrochemical behaviors in supercapacitors. <i>Materials Chemistry and Physics</i> , 2016, 177, 171-178.	4.0	10
67	Solvent stable nanoporous poly (ethylene-co-vinyl alcohol) barrier membranes for liquid-liquid extraction of lithium from a salt lake brine. <i>Journal of Membrane Science</i> , 2016, 520, 596-606.	8.2	66
68	Electrospun nanofiber membranes incorporating fluorosilane-coated TiO ₂ nanocomposite for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 145-154.	8.2	161
69	Water desalination using graphene-enhanced electrospun nanofiber membrane via air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016, 520, 99-110.	8.2	167
70	Extraction of boron from salt lake brine using 2-ethylhexanol. <i>Hydrometallurgy</i> , 2016, 160, 129-136.	4.3	69
71	Superhydrophobic nanofiber membrane containing carbon nanotubes for high-performance direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 502, 158-170.	8.2	320
72	Concentrating underground brine by FO process: Influence of membrane types and spacer on membrane scaling. <i>Chemical Engineering Journal</i> , 2016, 285, 92-100.	12.7	21

#	ARTICLE	IF	CITATIONS
73	Dehydration of forward osmosis membranes in treating high salinity wastewaters: Performance and implications. <i>Journal of Membrane Science</i> , 2016, 498, 365-373.	8.2	19
74	Finger-Like Structure. , 2016, , 774-775.		0
75	Treatment of High-Salinity Wastewater from Shale Gas Exploitation by Forward Osmosis Processes. , 2015, , 339-361.		0
76	Removal of Emerging Trace Organic Chemicals by Forward Osmosis. , 2015, , 363-394.		0
77	A sacrificial-layer approach to fabricate polysulfone support for forward osmosis thin-film composite membranes with reduced internal concentration polarisation. <i>Journal of Membrane Science</i> , 2015, 481, 106-114.	8.2	85
78	Effective evaporation of CF ₄ plasma modified PVDF membranes in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2015, 482, 25-32.	8.2	75
79	Treatment of shale gas drilling flowback fluids (SGDFs) by forward osmosis: Membrane fouling and mitigation. <i>Desalination</i> , 2015, 366, 113-120.	8.2	114
80	Arsenic removal using a sulfonated poly(ether ether ketone) coated hollow fiber nanofiltration membrane. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 839-845.	2.4	20
81	CF ₄ plasma modified highly interconnective porous polysulfone membranes for direct contact membrane distillation (DCMD). <i>Desalination</i> , 2015, 369, 105-114.	8.2	81
82	Graphene oxide incorporated polysulfone substrate for the fabrication of flat-sheet thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 493, 496-507.	8.2	213
83	Effect of different reduction methods on electrochemical cycling stability of reduced graphene oxide in supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 57-65.	2.9	7
84	Ammonia-free preparation of Ag@SiO ₂ core/shell nanoparticles. <i>Applied Surface Science</i> , 2015, 345, 122-126.	6.1	27
85	Stabilization of composite hollow fiber nanofiltration membranes with a sulfonated poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Ove	8.2	28
86	CF ₄ plasma-modified superhydrophobic PVDF membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2014, 456, 155-161.	8.2	196
87	Water reclamation from shale gas drilling flow-back fluid using a novel forward osmosisâ€‘vacuum membrane distillation hybrid system. <i>Water Science and Technology</i> , 2014, 69, 1036-1044.	2.5	96
88	Hydrophilic nanoporous ion-exchange membranes as a stabilizing barrier for liquidâ€‘liquid membrane extraction of lithium ions. <i>Journal of Membrane Science</i> , 2014, 471, 372-380.	8.2	58
89	Towards non-toxic solvents for membrane preparation: a review. <i>Green Chemistry</i> , 2014, 16, 4034.	9.0	320
90	Adsorption of Drugs on Nanodiamond: Toward Development of a Drug Delivery Platform. <i>Molecular Pharmaceutics</i> , 2013, 10, 3728-3735.	4.6	154

#	ARTICLE	IF	CITATIONS
91	Tuning pore structure of the poly(vinylidene difluoride hexafluoropropylene) membrane for improvement in rate performance of Li ⁺ oxygen battery. <i>Journal of Power Sources</i> , 2013, 241, 288-294.	7.8	18
92	Cellulose triacetate forward osmosis membranes: preparation and characterization. <i>Desalination and Water Treatment</i> , 2013, 51, 2656-2665.	1.0	44
93	Composite hollow fiber nanofiltration membranes for recovery of glyphosate from saline wastewater. <i>Water Research</i> , 2013, 47, 2065-2074.	11.3	81
94	Kinetics of (3-Aminopropyl)triethoxysilane (APTES) Silanization of Superparamagnetic Iron Oxide Nanoparticles. <i>Langmuir</i> , 2013, 29, 15275-15282.	3.5	166
95	Magnetic Fe ₃ O ₄ Nanoparticles: Synthesis and Application in Water Treatment. <i>Nanoscience and Nanotechnology - Asia</i> , 2012, 1, 14-24.	0.7	7
96	CF ₄ plasma surface modification of asymmetric hydrophilic polyethersulfone membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2012, 407-408, 164-175.	8.2	174
97	Morphological control of polymerized n-octadecylsiloxane. <i>Applied Surface Science</i> , 2011, 257, 2080-2085.	6.1	14
98	Morphological control and cross-flow filtration of microfiltration membranes prepared via a sacrificial-layer approach. <i>Journal of Membrane Science</i> , 2010, 353, 159-168.	8.2	19
99	Origin of delamination/adhesion in polyetherimide/polysulfone co-cast membranes. <i>Journal of Membrane Science</i> , 2010, 352, 173-179.	8.2	35
100	Modification of unsaturated polyester resins (UP) and reinforced UP resins via plasma treatment. <i>Applied Surface Science</i> , 2010, 257, 290-295.	6.1	11
101	Formation of Superhydrophobic Polymerized n-Octadecylsiloxane Nanosheets. <i>Langmuir</i> , 2010, 26, 3579-3584.	3.5	52
102	Modeling on swelling behavior of a confined polymer network. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1589-1593.	2.1	11
103	Does more solvent in bore liquid create more open inner surface in hollow fiber membranes?. <i>Polymers for Advanced Technologies</i> , 2008, 19, 801-806.	3.2	8
104	A sacrificial-layer approach to prepare microfiltration membranes. <i>Journal of Membrane Science</i> , 2008, 320, 1-7.	8.2	34
105	Towards stabilization of supported liquid membranes: preparation and characterization of polysulfone support and sulfonated poly(ether ether ketone) coated composite hollow fiber membranes. <i>Desalination</i> , 2008, 225, 82-94.	8.2	32
106	Preparation and characterization of nanofiltration membranes by coating polyethersulfone hollow fibers with sulfonated poly(ether ether ketone) (SPEEK). <i>Journal of Membrane Science</i> , 2008, 307, 62-72.	8.2	115
107	Conversion of a Metastable Superhydrophobic Surface to an Ultraphobic Surface. <i>Langmuir</i> , 2008, 24, 8008-8012.	3.5	45
108	Composite hollow fiber membranes for organic solvent-based liquid-liquid extraction. <i>Journal of Membrane Science</i> , 2004, 234, 1-10.	8.2	35

#	ARTICLE	IF	CITATIONS
109	Preparation of porous hollow fiber membranes with a triple-orifice spinneret. Journal of Applied Polymer Science, 2003, 87, 2151-2157.	2.6	43
110	Preparation of composite hollow fiber membranes: co-extrusion of hydrophilic coatings onto porous hydrophobic support structures. Journal of Membrane Science, 2002, 207, 143-156.	8.2	123
111	Effects of low-toxicity solvent and binary mixed additives on the microstructure and performance of cellulose triacetate (CTA) membranes for forward osmosis. , 0, 130, 44-53.		7