

# Jun Wang

## List of Publications by Year in descending order

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111  
papers

4,558  
citations

70961

41  
h-index

128067

60  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and properties of PVDF composite hollow fiber membranes for desalination through direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2012, 405-406, 185-200.	4.1	146
2	Fabrication and characterization of hydrophobic PVDF hollow fiber membranes for desalination through direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2009, 69, 78-86.	3.9	125
3	Hydrophilic surface coating on hydrophobic PTFE membrane for robust anti-oil-fouling membrane distillation. <i>Applied Surface Science</i> , 2018, 450, 57-65.	3.1	118
4	Removal of phosphate from aqueous solution by red mud using a factorial design. <i>Journal of Hazardous Materials</i> , 2009, 165, 1193-1199.	6.5	113
5	Experimental study of arsenic removal by direct contact membrane distillation. <i>Journal of Hazardous Materials</i> , 2009, 163, 874-879.	6.5	107
6	Preparation and characterization of PVDF flat-sheet membranes for direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2014, 135, 211-222.	3.9	104
7	Arsenate removal from aqueous solutions using modified red mud. <i>Journal of Hazardous Materials</i> , 2008, 152, 486-492.	6.5	102
8	Characteristics and formation mechanism of membrane fouling in a full-scale RO wastewater reclamation process: Membrane autopsy and fouling characterization. <i>Journal of Membrane Science</i> , 2018, 563, 843-856.	4.1	87
9	Arsenic removal from aqueous solution using ferrous based red mud sludge. <i>Journal of Hazardous Materials</i> , 2010, 177, 131-137.	6.5	84
10	Fabrication and characterization of electrospun superhydrophobic PVDF-HFP/SiNPs hybrid membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2017, 189, 82-89.	3.9	84
11	Composite membrane with electrospun multiscale-textured surface for robust oil-fouling resistance in membrane distillation. <i>Journal of Membrane Science</i> , 2018, 546, 179-187.	4.1	83
12	Development of polyaniline conductive membrane for electrically enhanced membrane fouling mitigation. <i>Journal of Membrane Science</i> , 2019, 570-571, 371-379.	4.1	83
13	Integration of accelerated precipitation softening with membrane distillation for high-recovery desalination of primary reverse osmosis concentrate. <i>Separation and Purification Technology</i> , 2009, 67, 21-25.	3.9	79
14	Poly(m-phenylene isophthalamide) (PMIA): A potential polymer for breaking through the selectivity-permeability trade-off for ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2016, 518, 72-78.	4.1	79
15	A novel dual-layer composite membrane with underwater-superoleophobic/hydrophobic asymmetric wettability for robust oil-fouling resistance in membrane distillation desalination. <i>Desalination</i> , 2018, 428, 240-249.	4.0	79
16	Coagulation behavior of polyaluminum chloride: Effects of pH and coagulant dosage. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1041-1046.	1.7	77
17	Feasibility study of iron mineral separation from red mud by high gradient superconducting magnetic separation. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 91-96.	0.6	76
18	Effects of calcium carbonate nano-particles on the properties of PVDF/nonwoven fabric flat-sheet composite membranes for direct contact membrane distillation. <i>Desalination</i> , 2014, 347, 25-33.	4.0	73

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19	Polyamide/PVC based composite hollow fiber nanofiltration membranes: Effect of substrate on properties and performance. <i>Journal of Membrane Science</i> , 2016, 505, 231-240.	4.1	72
20	Boron removal from aqueous solution by direct contact membrane distillation. <i>Journal of Hazardous Materials</i> , 2010, 177, 613-619.	6.5	71
21	Research on magnetic seeding flocculation for arsenic removal by superconducting magnetic separation. <i>Separation and Purification Technology</i> , 2010, 73, 264-270.	3.9	69
22	Fabrication of hydrophobic flat sheet and hollow fiber membranes from PVDF and PVDF-CTFE for membrane distillation. <i>Journal of Membrane Science</i> , 2016, 497, 183-193.	4.1	69
23	Fabrication of a novel conductive ultrafiltration membrane and its application for electrochemical removal of hexavalent chromium. <i>Journal of Membrane Science</i> , 2019, 584, 191-201.	4.1	67
24	Fabrication of novel poly(m-phenylene isophthalamide) hollow fiber nanofiltration membrane for effective removal of trace amount perfluorooctane sulfonate from water. <i>Journal of Membrane Science</i> , 2015, 477, 74-85.	4.1	64
25	Fabrication of asymmetric poly (m-phenylene isophthalamide) nanofiltration membrane for chromium(VI) removal. <i>Journal of Environmental Sciences</i> , 2010, 22, 1335-1341.	3.2	62
26	Fabrication of PVDF nanofibrous hydrophobic composite membranes reinforced with fabric substrates via electrospinning for membrane distillation desalination. <i>Journal of Environmental Sciences</i> , 2019, 75, 277-288.	3.2	62
27	Electrospun nanofibrous omniphobic membrane for anti-surfactant-wetting membrane distillation desalination. <i>Desalination</i> , 2019, 468, 114068.	4.0	61
28	Preparation and characterization of PVDF/nonwoven fabric flat-sheet composite membranes for desalination through direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2012, 101, 1-10.	3.9	60
29	Boron removal and desalination from seawater by PVDF flat-sheet membrane through direct contact membrane distillation. <i>Desalination</i> , 2013, 326, 115-124.	4.0	57
30	Preparation of PVDF-CTFE hydrophobic membranes for MD application: Effect of LiCl-based mixed additives. <i>Journal of Membrane Science</i> , 2016, 506, 71-85.	4.1	56
31	Comparison of emerging contaminant abatement by conventional ozonation, catalytic ozonation, O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and electro-peroxone processes. <i>Journal of Hazardous Materials</i> , 2020, 389, 121829.	6.5	52
32	Titanium nitride nanoparticle embedded membrane for photothermal membrane distillation. <i>Chemosphere</i> , 2020, 256, 127053.	4.2	52
33	Optimizing stretching conditions in fabrication of PTFE hollow fiber membrane for performance improvement in membrane distillation. <i>Journal of Membrane Science</i> , 2018, 550, 126-135.	4.1	51
34	Enhancement of energy utilization using nanofluid in solar powered membrane distillation. <i>Chemosphere</i> , 2018, 212, 554-562.	4.2	51
35	One step prepared Janus acid-resistant nanofiltration membranes with opposite surface charges for acidic wastewater treatment. <i>Separation and Purification Technology</i> , 2020, 250, 117245.	3.9	51
36	Effect and mechanism of an anionic surfactant on membrane performance during direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020, 595, 117495.	4.1	50

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37	A novel electro-catalytic membrane contactor for improving the efficiency of ozone on wastewater treatment. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 316-321.	10.8	49
38	Control of protein (BSA) fouling by ultrasonic irradiation during membrane distillation process. <i>Separation and Purification Technology</i> , 2017, 175, 287-297.	3.9	47
39	Preparation of a novel sonocatalyst, Au/NiGa <sub>2</sub> O <sub>4</sub> -Au-Bi <sub>2</sub> O <sub>3</sub> nanocomposite, and application in sonocatalytic degradation of organic pollutants. <i>Ultrasonics Sonochemistry</i> , 2017, 38, 335-346.	3.8	45
40	Electrothermally Driven Membrane Distillation for Low-Energy Consumption and Wetting Mitigation. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13506-13513.	4.6	44
41	Electrospun porous poly(tetrafluoroethylene-co-hexafluoropropylene-vinylidene) Tj ETQq1 1 0.784314 rgBT /Overl	1.7	43
42	Preparation of PVDF-CTFE hydrophobic membrane by non-solvent induced phase inversion: Relation between polymorphism and phase inversion. <i>Journal of Membrane Science</i> , 2018, 550, 480-491.	4.1	43
43	Anti-oil-fouling hydrophobic-superoleophobic composite membranes for robust membrane distillation performance. <i>Science of the Total Environment</i> , 2019, 696, 133883.	3.9	43
44	Constructing chemical stable 4-carboxyl-quinoline linked covalent organic frameworks via Doebner reaction for nanofiltration. <i>Nature Communications</i> , 2022, 13, 2615.	5.8	42
45	Humic acid fouling mitigation by ultrasonic irradiation in membrane distillation process. <i>Separation and Purification Technology</i> , 2015, 154, 328-337.	3.9	41
46	Development of a composite membrane with underwater-oleophobic fibrous surface for robust anti-oil-fouling membrane distillation. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 375-383.	5.0	41
47	Fluoride removal from brackish groundwater by direct contact membrane distillation. <i>Journal of Environmental Sciences</i> , 2010, 22, 1860-1867.	3.2	40
48	Fabrication and performance of PET mesh enhanced cellulose acetate membranes for forward osmosis. <i>Journal of Environmental Sciences</i> , 2016, 45, 7-17.	3.2	39
49	Effect of microwave irradiation on vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2013, 429, 473-479.	4.1	38
50	Preparation, evaluation and modification of PVDF-CTFE hydrophobic membrane for MD desalination application. <i>Desalination</i> , 2017, 402, 162-172.	4.0	38
51	Influence of incorporating beta zeolite nanoparticles on water permeability and ion selectivity of polyamide nanofiltration membranes. <i>Journal of Environmental Sciences</i> , 2020, 98, 77-84.	3.2	38
52	Sorption of endrin to montmorillonite and kaolinite clays. <i>Journal of Hazardous Materials</i> , 2009, 168, 210-214.	6.5	37
53	Effect of non-solvent additives on the morphology and separation performance of poly(m-phenylene) Tj ETQq1 1 0.784314 rgBT /Overl	4.0	37
54	Ultrasonic assisted direct contact membrane distillation hybrid process for membrane scaling mitigation. <i>Desalination</i> , 2015, 375, 33-39.	4.0	37

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55	Effect of non-solvent additives on the morphology, pore structure, and direct contact membrane distillation performance of PVDF-CTFE hydrophobic membranes. <i>Journal of Environmental Sciences</i> , 2016, 45, 28-39.	3.2	37
56	Effect of microwave irradiation on typical inorganic salts crystallization in membrane distillation process. <i>Journal of Membrane Science</i> , 2014, 455, 24-30.	4.1	36
57	Preparation of carboxylic multiwalled-carbon-nanotube-modified poly(m-phenylene isophthalamide) hollow fiber nanofiltration membranes with improved performance and application for dye removal. <i>Applied Surface Science</i> , 2018, 453, 502-512.	3.1	36
58	Ultrasonic irradiation control of silica fouling during membrane distillation process. <i>Desalination</i> , 2016, 386, 48-57.	4.0	34
59	Electrically responsive ultrafiltration polyaniline membrane to solve fouling under applied potential. <i>Journal of Membrane Science</i> , 2019, 572, 442-452.	4.1	33
60	Microstructure design and construction of anti-wetting and anti-fouling multifunctional Janus membrane for robust membrane distillation. <i>Chemical Engineering Journal</i> , 2022, 430, 132973.	6.6	33
61	Domestic wastewater treatment by forward osmosis-membrane distillation (FO-MD) integrated system. <i>Water Science and Technology</i> , 2018, 77, 1514-1523.	1.2	32
62	Study on concentrating primary reverse osmosis retentate by direct contact membrane distillation. <i>Desalination</i> , 2009, 247, 540-550.	4.0	31
63	An ultrasonic assisted direct contact membrane distillation hybrid process for desalination. <i>Journal of Membrane Science</i> , 2015, 476, 59-67.	4.1	31
64	A hybrid process combining homogeneous catalytic ozonation and membrane distillation for wastewater treatment. <i>Chemosphere</i> , 2016, 160, 134-140.	4.2	30
65	Hydrolysis of polyaluminum chloride prior to coagulation: Effects on coagulation behavior and implications for improving coagulation performance. <i>Journal of Environmental Sciences</i> , 2017, 57, 162-169.	3.2	30
66	Development of a novel electrocoagulation membrane reactor with electrically conductive membranes as cathode to mitigate membrane fouling. <i>Journal of Membrane Science</i> , 2021, 618, 118713.	4.1	30
67	Synergistic Enhancement of Thermal Conductivity and Dielectric Properties in Al <sub>2</sub> O <sub>3</sub> /BaTiO <sub>3</sub> /PP Composites. <i>Materials</i> , 2018, 11, 1536.	1.3	29
68	Ibuprofen removal from drinking water by electro-peroxone in carbon cloth filter. <i>Chemical Engineering Journal</i> , 2021, 415, 127618.	6.6	28
69	Flocculation of kaolin suspension with the adsorption of N,N-disubstituted hydrophobically modified polyacrylamide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 317, 388-393.	2.3	27
70	Regeneration of carbon nanotubes exhausted with dye reactive red 3BS using microwave irradiation. <i>Journal of Hazardous Materials</i> , 2010, 178, 1125-1127.	6.5	27
71	Biological sulfate removal from acrylic fiber manufacturing wastewater using a two-stage UASB reactor. <i>Journal of Environmental Sciences</i> , 2012, 24, 343-350.	3.2	27
72	A novel Z-scheme sonocatalyst system, Er <sup>3+</sup> :Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> @Ni(Fe <sub>0.05</sub> Ga <sub>0.95</sub> ) <sub>2</sub> O <sub>4</sub> -Au-BiVO <sub>4</sub> , and application in sonocatalytic degradation of sulfanilamide. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 150-166.	3.8	27

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73	Immobilization of high concentrations of soluble Mn(II) from electrolytic manganese solid waste using inorganic chemicals. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7782-7793.	2.7	25
74	Development of a novel integrated membrane system incorporated with an activated coke adsorption unit for advanced coal gasification wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 99-107.	2.3	24
75	Preparation of Interconnected Biomimetic Poly(vinylidene fluoride-co-trifluoroethylene) Membranes via Inversion Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32604-32615.	4.0	24
76	A novel microwave assisted photo-catalytic membrane distillation process for treating the organic wastewater containing inorganic ions. <i>Journal of Water Process Engineering</i> , 2016, 9, 1-8.	2.6	24
77	Preparation of hydrophobic PVDF hollow fiber membranes for desalination through membrane distillation. <i>Water Science and Technology</i> , 2009, 59, 1219-1226.	1.2	23
78	Poly(vinyl chloride) and poly(ether sulfone)-poly(ether glycol) methyl ether methacrylate blend membranes with improved ultrafiltration performance and fouling resistance. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	23
79	Evaluation of performance and microbial community in a two-stage UASB reactor pretreating acrylic fiber manufacturing wastewater. <i>Bioresource Technology</i> , 2011, 102, 5709-5716.	4.8	22
80	A facile transesterification route to polysulfone-poly(ethylene glycol) amphiphilic block copolymers with improved protein resistance. <i>Polymer Chemistry</i> , 2014, 5, 2836-2842.	1.9	22
81	Study on the effects of cations and anions on the removal of perfluorooctane sulphonate by nanofiltration membrane. <i>Separation and Purification Technology</i> , 2018, 202, 385-396.	3.9	22
82	Techno-economic assessment of a hybrid forward osmosis and membrane distillation system for agricultural water recovery. <i>Separation and Purification Technology</i> , 2022, 283, 120196.	3.9	21
83	Integration of direct contact membrane distillation and recirculating cooling water system for pure water production. <i>Journal of Cleaner Production</i> , 2008, 16, 1847-1855.	4.6	19
84	The effects of electrophoresis, bubbles and electroosmosis for conductive membrane performance in the electro-filtration process. <i>Journal of Membrane Science</i> , 2021, 620, 118955.	4.1	19
85	Effects of feed solution pH and draw solution concentration on the performance of phenolic compounds removal in forward osmosis process. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2508-2514.	3.3	16
86	Mass transfer and interfacial reaction mechanisms in a novel electro-catalytic membrane contactor for wastewater treatment by O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118512.	10.8	16
87	Improved permeability of tight acid resistant nanofiltration membrane via citric acid post-treatment. <i>Journal of Membrane Science</i> , 2022, 648, 120381.	4.1	16
88	Electrothermal hollow fiber membrane for convenient heat management in Joule vacuum membrane distillation. <i>Chemical Engineering Journal</i> , 2022, 443, 136521.	6.6	15
89	Development and performance of stable PANI/MWNT conductive membrane for contaminants degradation and anti-fouling behavior. <i>Separation and Purification Technology</i> , 2022, 282, 120112.	3.9	14
90	Interconnected PVDF-CTFE hydrophobic membranes for MD desalination: effect of PEGs on phase inversion process. <i>RSC Advances</i> , 2016, 6, 20926-20937.	1.7	13

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91	Hydroxyl carboxylate based non-phosphorus corrosion inhibition process for reclaimed water pipeline and downstream recirculating cooling water system. <i>Journal of Environmental Sciences</i> , 2016, 39, 13-21.	3.2	13
92	Ozone mass transfer behaviors on physical and chemical absorption for hollow fiber membrane contactors. <i>Water Science and Technology</i> , 2017, 76, 1360-1369.	1.2	12
93	Evaluation of arsenic immobilization in red mud by CO <sub>2</sub> or waste acid acidification combined ferrous (Fe <sup>2+</sup> ) treatment. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 43-50.	6.5	10
94	Reduction of nitrobenzene by a zero-valent iron microspheres/polyvinylidene fluoride (mZVI/PVDF) membrane. <i>Separation and Purification Technology</i> , 2022, 282, 120006.	3.9	10
95	Immobilization of phosphorus in sewage sludge using inorganic amendments. <i>Environmental Earth Sciences</i> , 2011, 63, 221-228.	1.3	9
96	A polyvinylidene fluoride (PVDF) silica aerogel (SiAG) insulating membrane for improvement of thermal efficiency during membrane distillation. <i>Journal of Membrane Science</i> , 2020, 597, 117632.	4.1	9
97	High-concentration Al <sup>3+</sup> -Al <sub>13</sub> nanoclusters sol prepared by chemical synthesis and membrane distillation concentration process. <i>Separation and Purification Technology</i> , 2009, 69, 221-223.	3.9	8
98	Preparation of High Concentration Polyaluminum Chloride with High Alc Content by Membrane Distillation. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 173-176.	1.7	8
99	Research on red mud treatment by a circulating superconducting magnetic separator. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1243-1249.	1.2	7
100	Enhanced mineralization of reactive brilliant red X-3B by UV driven photocatalytic membrane contact ozonation. <i>Journal of Hazardous Materials</i> , 2020, 391, 122194.	6.5	7
101	Evaluation of chemical immobilization treatments for reducing arsenic transport in red mud. <i>Environmental Earth Sciences</i> , 2013, 70, 1775-1782.	1.3	6
102	Metal cation removal by P(VC-r-AA) copolymer ultrafiltration membranes. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 262-272.	2.3	5
103	A novel electrocoagulation-membrane stripping hybrid system for simultaneous ammonia recovery and contaminant removal. <i>Separation and Purification Technology</i> , 2022, 296, 121377.	3.9	5
104	Coagulation of arsenic adsorbed ferrihydrite with the use of polyaluminium chloride (PAC) or polyferric sulfate (PFS). <i>Desalination and Water Treatment</i> , 2012, 49, 157-164.	1.0	4
105	The Research of Hydrophilic Modification of PVC/PES Blended Membrane by the Additive of CA. <i>Advanced Materials Research</i> , 0, 1052, 8-13.	0.3	3
106	Concentrating primary reverse osmosis concentrate by direct contact membrane distillation. <i>Water Science and Technology: Water Supply</i> , 2010, 10, 403-410.	1.0	2
107	Kinetic study of α-amylase in the process of starch hydrolysis by microcalorimetry. <i>Thermochimica Acta</i> , 2014, 579, 70-73.	1.2	2
108	Ultrafiltration performance and fouling resistance of PVB/SPES blend membranes with different degree of sulfonation. <i>Journal of Materials Research</i> , 2015, 30, 2688-2701.	1.2	2

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109	Comprehensive utilization of phosphate in a highly concentrated recirculating cooling water system using secondary-treated municipal wastewater as make-up. <i>Desalination and Water Treatment</i> , 2016, 57, 10210-10221.	1.0	2
110	Raw Fermentation Media for Industrial Production of Bacterial Cellulose. <i>Advanced Materials Research</i> , 0, 821-822, 1093-1097.	0.3	0
111	Fabrication and characterization of high-strength PVDF/nonwoven fabric electrospun composite membranes for direct contact membrane distillation. , 0, 95, 61-73.		0