

# Xing Yang

## List of Publications by Year in descending order

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53  
papers

2,218  
citations

218381

26  
h-index

223531

46  
g-index

55  
all docs

55  
docs citations

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times ranked

1818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane bioreactors for hospital wastewater treatment: recent advancements in membranes and processes. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 634-660.	2.3	9
2	Constructing novel nanofibrous polyacrylonitrile (PAN)-based anion exchange membrane adsorber for protein separation. <i>Separation and Purification Technology</i> , 2022, 285, 120364.	3.9	11
3	Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. <i>Chemical Engineering Journal</i> , 2022, 431, 134201.	6.6	29
4	A prebiotic chemistry inspired one-step functionalization of zwitterionic nanofiltration membranes for efficient molecular separation. , 2022, 2, 100013.		1
5	Polyarylester thin films with narrowed pore size distribution via metal-phenolic network modulated interfacial polymerization for precise separation. <i>Journal of Membrane Science</i> , 2022, 646, 120263.	4.1	7
6	Towards next generation high throughput ion exchange membranes for downstream bioprocessing: A review. <i>Journal of Membrane Science</i> , 2022, 647, 120325.	4.1	12
7	Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11038-11049.	4.0	11
8	Concentrating phosphoric acid by direct contact membrane distillation using a low-cost polyethylene separator. <i>Desalination</i> , 2022, 530, 115664.	4.0	6
9	Pilot demonstration of nitrogen removal from municipal wastewater by vacuum membrane distillation. <i>Journal of Water Process Engineering</i> , 2022, 47, 102726.	2.6	11
10	Advanced ion transfer materials in electro-driven membrane processes for sustainable ion-resource extraction and recovery. <i>Progress in Materials Science</i> , 2022, 128, 100958.	16.0	36
11	Achieving sustainable operation for hypersaline membrane distillation applications: A novel strategy based on the critical Reynolds number. <i>Desalination</i> , 2021, 499, 114833.	4.0	14
12	Metal-organic framework based membranes for selective separation of target ions. <i>Journal of Membrane Science</i> , 2021, 634, 119407.	4.1	60
13	An ultra-robust fabric-embedded PVDF membrane fabricated by NTIPS method and its application for monosodium glutamate concentration in membrane distillation. <i>Journal of Membrane Science</i> , 2021, 635, 119448.	4.1	9
14	A Facile Method to Control Pore Structure of PVDF/SiO <sub>2</sub> Composite Membranes for Efficient Oil/Water Purification. <i>Membranes</i> , 2021, 11, 803.	1.4	8
15	The role of adsorption in microalgae biological desalination: Salt removal from brackish water using <i>Scenedesmus obliquus</i> . <i>Desalination</i> , 2020, 493, 114616.	4.0	38
16	Tuning the Pore Structure of Poly(vinylidene fluoride) Membrane for Efficient Oil/Water Separation: A Novel Vapor-Induced Phase Separation Method Based on a Lower Critical Solution Temperature System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 14947-14959.	1.8	13
17	Facile pore structure control of poly(vinylidene fluoride) membrane for oil/water separation. <i>Separation and Purification Technology</i> , 2020, 251, 117305.	3.9	15
18	The role of polyvinyl butyral additive in forming desirable pore structure for thin film composite forward osmosis membrane. <i>Separation and Purification Technology</i> , 2020, 242, 116798.	3.9	18

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19	Modeling of heat and mass transfer in vacuum membrane distillation for ammonia separation. Separation and Purification Technology, 2019, 224, 121-131.	3.9	23
20	Thermo-responsive nanofibrous composite membranes for efficient self-cleaning of protein foulants. Journal of Membrane Science, 2019, 574, 309-317.	4.1	33
21	Nanofibers for Membrane Applications. , 2019, , 937-960.		1
22	Inter-layer free cobalt-doped silica membranes for pervaporation of ammonia solutions. Journal of Membrane Science, 2018, 553, 111-116.	4.1	12
23	Modular matrix design for large-scale membrane distillation system via Aspen simulations. Desalination, 2018, 428, 207-217.	4.0	8
24	Relating water vapor transfer to ammonia recovery from biogas slurry by vacuum membrane distillation. Separation and Purification Technology, 2018, 191, 182-191.	3.9	78
25	Dual Functional Ultrafiltration Membranes with Enzymatic Digestion and Thermo-Responsivity for Protein Self-Cleaning. Membranes, 2018, 8, 85.	1.4	7
26	Nanofibers for Membrane Applications. , 2018, , 1-24.		2
27	Fabrication of novel Janus membrane by nonsolvent thermally induced phase separation (NTIPS) for enhanced performance in membrane distillation. Journal of Membrane Science, 2018, 563, 298-308.	4.1	68
28	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning. ACS Applied Materials & Interfaces, 2018, 10, 27477-27487.	4.0	24
29	Performance and Fouling Study of Asymmetric PVDF Membrane Applied in the Concentration of Organic Fertilizer by Direct Contact Membrane Distillation (DCMD). Membranes, 2018, 8, 9.	1.4	10
30	Sustainable operation of membrane distillation for hypersaline applications: Roles of brine salinity, membrane permeability and hydrodynamics. Desalination, 2018, 445, 123-137.	4.0	24
31	Nanofiber Composite Membrane with Intrinsic Janus Surface for Reversed-Protein-Fouling Ultrafiltration. ACS Applied Materials & Interfaces, 2017, 9, 18328-18337.	4.0	41
32	Sustainable waste water deammonification by vacuum membrane distillation without pH adjustment: Role of water chemistry. Chemical Engineering Journal, 2017, 328, 884-893.	6.6	53
33	Preparation and Characterization of Hydrophilically Modified PVDF Membranes by a Novel Nonsolvent Thermally Induced Phase Separation Method. Membranes, 2016, 6, 47.	1.4	27
34	Pervaporation of ammonia solution with $\gamma$ -alumina supported organosilica membranes. Separation and Purification Technology, 2016, 168, 141-151.	3.9	20
35	Evaluation of heat utilization in membrane distillation desalination system integrated with heat recovery. Desalination, 2015, 366, 80-93.	4.0	70
36	Fabrication and characterization of novel asymmetric polyvinylidene fluoride (PVDF) membranes by the nonsolvent thermally induced phase separation (NTIPS) method for membrane distillation applications. Journal of Membrane Science, 2015, 489, 160-174.	4.1	124

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37	A Pervaporation Study of Ammonia Solutions Using Molecular Sieve Silica Membranes. <i>Membranes</i> , 2014, 4, 40-54.	1.4	42
38	Heat transfer intensification and scaling mitigation in bubbling-enhanced membrane distillation for brine concentration. <i>Journal of Membrane Science</i> , 2014, 470, 60-69.	4.1	59
39	Quantitative Study on Crystallization-Induced Scaling in High-Concentration Direct-Contact Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 15656-15666.	1.8	28
40	A non-invasive study of flow dynamics in membrane distillation hollow fiber modules using low-field nuclear magnetic resonance imaging (MRI). <i>Journal of Membrane Science</i> , 2014, 451, 46-54.	4.1	34
41	Evaluation of hollow fiber-based direct contact and vacuum membrane distillation systems using aspen process simulation. <i>Journal of Membrane Science</i> , 2014, 464, 127-139.	4.1	43
42	Performance enhancement and scaling control with gas bubbling in direct contact membrane distillation. <i>Desalination</i> , 2013, 308, 47-55.	4.0	122
43	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. <i>Desalination and Water Treatment</i> , 2013, 51, 3604-3627.	1.0	104
44	Distinct Acute Zones for Visual Stimuli in Different Visual Tasks in <i>Drosophila</i> . <i>PLoS ONE</i> , 2013, 8, e61313.	1.1	3
45	Optimization of microstructured hollow fiber design for membrane distillation applications using CFD modeling. <i>Journal of Membrane Science</i> , 2012, 421-422, 258-270.	4.1	81
46	Analysis of the effect of turbulence promoters in hollow fiber membrane distillation modules by computational fluid dynamic (CFD) simulations. <i>Journal of Membrane Science</i> , 2012, 415-416, 758-769.	4.1	68
47	Analysis of Membrane Distillation Crystallization System for High Salinity Brine Treatment with Zero Discharge Using Aspen Flowsheet Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13405-13413.	1.8	85
48	Analysis of heat and mass transfer by CFD for performance enhancement in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2012, 405-406, 38-47.	4.1	119
49	Novel designs for improving the performance of hollow fiber membrane distillation modules. <i>Journal of Membrane Science</i> , 2011, 384, 52-62.	4.1	119
50	Numerical simulation of heat and mass transfer in direct membrane distillation in a hollow fiber module with laminar flow. <i>Journal of Membrane Science</i> , 2011, 384, 107-116.	4.1	128
51	Performance improvement of PVDF hollow fiber-based membrane distillation process. <i>Journal of Membrane Science</i> , 2011, 369, 437-447.	4.1	216
52	Study on highly hydrophilic cellulose hollow fiber membrane contactors for thiol sulfur removal. <i>Journal of Membrane Science</i> , 2007, 305, 247-256.	4.1	13
53	Comparison of Strength Reduction Method for Slope Stability Analysis Based on ABAQUS FEM and FLAC <sup>3D</sup> ; FDM. <i>Applied Mechanics and Materials</i> , 0, 170-173, 918-922.	0.2	10