

# Gang Han

## List of Publications by Year in descending order

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48  
papers

4,823  
citations

117453

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h-index

243296

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48  
all docs

48  
docs citations

48  
times ranked

4144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbiosis-inspired de novo synthesis of ultrahigh MOF growth mixed matrix membranes for sustainable carbon capture. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	99
2	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. Angewandte Chemie - International Edition, 2021, 60, 6593-6599.	7.2	30
3	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. Angewandte Chemie, 2021, 133, 6667-6673.	1.6	6
4	Rheology and phase inversion behavior of polyphenylenesulfone (PPSU) and sulfonated PPSU for membrane formation. , 2021, , 163-185.		0
5	Aqueous One-Step Modulation for Synthesizing Monodispersed ZIF-8 Nanocrystals for Mixed-Matrix Membrane. ACS Applied Materials & Interfaces, 2021, 13, 11296-11305.	4.0	83
6	Molecularly soldered covalent organic frameworks for ultrafast precision sieving. Science Advances, 2021, 7, .	4.7	185
7	Recent development of pressure retarded osmosis (PRO) hollow fiber membranes. , 2021, , 473-493.		1
8	Impact of Post-Synthetic Modification Routes on Filler Structure and Performance in Metal-Organic Framework-Based Mixed-Matrix Membranes. Industrial & Engineering Chemistry Research, 2020, 59, 5432-5438.	1.8	17
9	Self-standing and flexible covalent organic framework (COF) membranes for molecular separation. Science Advances, 2020, 6, .	4.7	168
10	Facile and Time-Efficient Carboxylic Acid Functionalization of PIM-1: Effect on Molecular Packing and Gas Separation Performance. Macromolecules, 2020, 53, 6220-6234.	2.2	44
11	Acid-Modulated Synthesis of High Surface Area Amine-Functionalized MIL-101(Cr) Nanoparticles for CO <sub>2</sub> Separations. Industrial & Engineering Chemistry Research, 2020, 59, 18139-18150.	1.8	18
12	Hydrothermal Synthesis of Sub-20 nm Amine-Functionalized MIL-101(Cr) Nanoparticles with High Surface Area and Enhanced CO <sub>2</sub> Uptake. Industrial & Engineering Chemistry Research, 2020, 59, 7888-7900.	1.8	35
13	MOF-Based Membranes for Gas Separations. Chemical Reviews, 2020, 120, 8161-8266.	23.0	755
14	Exploration of Biomass-Derived Activated Carbons for Use in Vanadium Redox Flow Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 9472-9482.	3.2	33
15	Continuous UiO-66-Type Metal-Organic Framework Thin Film on Polymeric Support for Organic Solvent Nanofiltration. ACS Applied Materials & Interfaces, 2019, 11, 45290-45300.	4.0	49
16	Low-Pressure Nanofiltration Hollow Fiber Membranes for Effective Fractionation of Dyes and Inorganic Salts in Textile Wastewater. Environmental Science & Technology, 2018, 52, 3676-3684.	4.6	129
17	Novel thin-film composite nanofiltration membranes consisting of a zwitterionic co-polymer for selenium and arsenic removal. Journal of Membrane Science, 2018, 555, 299-306.	4.1	87
18	Hollow-Fiber Membranes for Salinity Gradient Processes. , 2018, , 175-200.		1

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19	Advanced Anti-Fouling Membranes for Osmotic Power Generation from Wastewater via Pressure Retarded Osmosis (PRO). <i>Environmental Science &amp; Technology</i> , 2018, 52, 6686-6694.	4.6	50
20	Thin-film composite membrane on a compacted woven backing fabric for pressure assisted osmosis. <i>Desalination</i> , 2017, 406, 98-108.	4.0	35
21	Effects of polyethylene glycol on membrane formation and properties of hydrophilic sulfonated polyphenylenesulfone (sPPSU) membranes. <i>Journal of Membrane Science</i> , 2017, 531, 27-35.	4.1	73
22	Thin-Film Nanocomposite (TFN) Membranes Incorporated with Super-Hydrophilic Metal-Organic Framework (MOF) UiO-66: Toward Enhancement of Water Flux and Salt Rejection. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7523-7534.	4.0	285
23	Water-Stable Metal-Organic Framework UiO-66 for Performance Enhancement of Forward Osmosis Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12773-12782.	1.8	65
24	A pilot study on pressure retarded osmosis operation and effective cleaning strategies. <i>Desalination</i> , 2017, 420, 273-282.	4.0	27
25	Phase Inversion Directly Induced Tight Ultrafiltration (UF) Hollow Fiber Membranes for Effective Removal of Textile Dyes. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14254-14261.	4.6	72
26	Thin-film composite (TFC) hollow fiber membrane with double-polyamide active layers for internal concentration polarization and fouling mitigation in osmotic processes. <i>Journal of Membrane Science</i> , 2017, 523, 497-504.	4.1	73
27	Pressure retarded osmosis. , 2016, , 19-53.		8
28	Rheology and phase inversion behavior of polyphenylenesulfone (PPSU) and sulfonated PPSU for membrane formation. <i>Polymer</i> , 2016, 99, 72-82.	1.8	68
29	Forward Osmosis (FO) for Water Reclamation from Emulsified Oil/Water Solutions: Effects of Membrane and Emulsion Characteristics. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5021-5032.	3.2	35
30	Investigations of inorganic and organic fouling behaviors, antifouling and cleaning strategies for pressure retarded osmosis (PRO) membrane using seawater desalination brine and wastewater. <i>Water Research</i> , 2016, 103, 264-275.	5.3	62
31	Effective As(III) Removal by A Multi-Charged Hydroacid Complex Draw Solute Facilitated Forward Osmosis-Membrane Distillation (FO-MD) Processes. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2363-2370.	4.6	47
32	Combination of forward osmosis (FO) process with coagulation/flocculation (CF) for potential treatment of textile wastewater. <i>Water Research</i> , 2016, 91, 361-370.	5.3	146
33	High performance thin-film composite membranes with mesh-reinforced hydrophilic sulfonated polyphenylenesulfone (sPPSU) substrates for osmotically driven processes. <i>Journal of Membrane Science</i> , 2016, 502, 84-93.	4.1	56
34	Hybrid pressure retarded osmosis membrane distillation (PRO-MD) process for osmotic power and clean water generation. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 507-515.	1.2	45
35	Water reclamation from emulsified oily wastewater via effective forward osmosis hollow fiber membranes under the PRO mode. <i>Water Research</i> , 2015, 81, 54-63.	5.3	103
36	Progress in pressure retarded osmosis (PRO) membranes for osmotic power generation. <i>Progress in Polymer Science</i> , 2015, 51, 1-27.	11.8	171

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37	Oil/water separation via ultrafiltration by novel triangle-shape tri-bore hollow fiber membranes from sulfonated polyphenylenesulfone. <i>Journal of Membrane Science</i> , 2015, 476, 162-170.	4.1	75
38	Novel Nanofiltration Membranes Consisting of a Sulfonated Pentablock Copolymer Rejection Layer for Heavy Metal Removal. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13880-13887.	4.6	135
39	Novel thin-film composite tri-bore hollow fiber membrane fabrication for forward osmosis. <i>Journal of Membrane Science</i> , 2014, 461, 28-38.	4.1	77
40	Robust and high performance pressure retarded osmosis hollow fiber membranes for osmotic power generation. <i>AIChE Journal</i> , 2014, 60, 1107-1119.	1.8	65
41	Conceptual demonstration of novel closed-loop pressure retarded osmosis process for sustainable osmotic energy generation. <i>Applied Energy</i> , 2014, 132, 383-393.	5.1	45
42	High performance thin film composite pressure retarded osmosis (PRO) membranes for renewable salinity-gradient energy generation. <i>Journal of Membrane Science</i> , 2013, 440, 108-121.	4.1	189
43	Highly Robust Thin-Film Composite Pressure Retarded Osmosis (PRO) Hollow Fiber Membranes with High Power Densities for Renewable Salinity-Gradient Energy Generation. <i>Environmental Science &amp; Technology</i> , 2013, 47, 8070-8077.	4.6	124
44	Thin film composite forward osmosis membranes based on polydopamine modified polysulfone substrates with enhancements in both water flux and salt rejection. <i>Chemical Engineering Science</i> , 2012, 80, 219-231.	1.9	325
45	Thin-film composite forward osmosis membranes with novel hydrophilic supports for desalination. <i>Journal of Membrane Science</i> , 2012, 423-424, 543-555.	4.1	212
46	Emerging forward osmosis (FO) technologies and challenges ahead for clean water and clean energy applications. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 246-257.	3.8	303
47	Hierarchical N-doped TiO <sub>2</sub> hollow microspheres consisting of nanothorns with exposed anatase {101} facets. <i>Chemical Communications</i> , 2011, 47, 6942.	2.2	108
48	Synthesis of Novel Asymmetric Zinc (II) Phthalocyanines Bearing Octadecyloxyl and Glucosyl Groups. <i>Molecules</i> , 2009, 14, 3688-3693.	1.7	4