Jingwei Hou

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal–Organic Framework Glasses for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	41
2	Binder-free mechanochemical metal–organic framework nanocrystal coatings. Nanoscale, 2022, 14, 2221-2229.	5.6	11
3	Designing Angstromâ€Scale Asymmetric MOFâ€onâ€MOF Cavities for High Monovalent Ion Selectivity. Advanced Materials, 2022, 34, e2107878.	21.0	47
4	Machine Learning Guided Dopant Selection for Metal Oxideâ€Based Photoelectrochemical Water Splitting: The Case Study of Fe ₂ O ₃ and CuO. Advanced Materials, 2022, 34, e2106776.	21.0	26
5	Thin film nanocomposite membrane incorporated with 2D-MOF nanosheets for highly efficient reverse osmosis desalination. Journal of Membrane Science, 2022, 653, 120520.	8.2	44
6	Transport tuning strategies in MOF film synthesis – a perspective. Journal of Materials Chemistry A, 2022, 10, 14641-14654.	10.3	6
7	Sintering of metal-organic frameworks. Cell Reports Physical Science, 2022, 3, 100932.	5.6	1
8	Carbonic anhydrase membranes for carbon capture and storage. , 2022, 2, 100031.		4
9	Aquatic environment remediation by atomic layer deposition-based multi-functional materials: A review. Journal of Hazardous Materials, 2021, 402, 123513.	12.4	15
10	Improving the hydrostability of ZIF-8 membrane by biomolecule towards enhanced nanofiltration performance for dye removal. Journal of Membrane Science, 2021, 618, 118630.	8.2	52
11	Mechanically stable structured porous boron nitride with high volumetric adsorption capacity. Journal of Materials Chemistry A, 2021, 9, 13366-13373.	10.3	9
12	Editorial: Superwetting Interfaces for Oil/Water Separation. Frontiers in Chemistry, 2021, 9, 667106.	3.6	2
13	Iron Phthalocyanine/Two-Dimensional Metal–Organic Framework Composite Nanosheets for Enhanced Alkaline Hydrogen Evolution. Inorganic Chemistry, 2021, 60, 9987-9995.	4.0	32
14	Fluorescence Enhancement through Confined Oligomerization in Nanochannels: An Anthryl Oligomer in a Metal-Organic Framework. , 2021, 3, 1599-1604.		4
15	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. Science, 2021, 374, 621-625.	12.6	137
16	In-situ growth of metal-organic framework film on a polydopamine-modified flexible substrate for antibacterial and forward osmosis membranes. Separation and Purification Technology, 2020, 236, 116239.	7.9	56
17	Metal–organic framework gels and monoliths. Chemical Science, 2020, 11, 310-323.	7.4	173
18	Dynamic single-site polysulfide immobilization in long-range disorder Cu-MOFs. Chemical Communications, 2020, 56, 10074-10077.	4.1	1

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19	Crosslinked microporous polyarylate membranes with high Kr/Xe separation performance and high stability under irradiation. Journal of Membrane Science, 2020, 611, 118280.	8.2	9
20	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie - International Edition, 2020, 59, 19434-19449.	13.8	73
21	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie, 2020, 132, 19602-19617.	2.0	14
22	Interfacial engineering of a polymer–MOF composite by <i>in situ</i> vitrification. Chemical Communications, 2020, 56, 3609-3612.	4.1	43
23	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. Nano Research, 2020, 13, 2289-2298.	10.4	51
24	Removal of trace organic contaminants by enzymatic membrane bioreactors: Role of membrane retention and biodegradation. Journal of Membrane Science, 2020, 611, 118345.	8.2	30
25	Halogenated Metal–Organic Framework Glasses and Liquids. Journal of the American Chemical Society, 2020, 142, 3880-3890.	13.7	83
26	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. Nano Letters, 2020, 20, 1272-1279.	9.1	28
27	Heteroepitaxial growth of vertically orientated zeolitic imidazolate frameworkâ€L (Co/Znâ€ZIFâ€L) molecular sieve membranes. AICHE Journal, 2020, 66, e16935.	3.6	21
28	Morphologically Tunable MOF Nanosheets in Mixed Matrix Membranes for CO ₂ Separation. Chemistry of Materials, 2020, 32, 4174-4184.	6.7	82
29	Flexible solar-rechargeable energy system. Energy Storage Materials, 2020, 32, 356-376.	18.0	23
30	High-flux nanofiltration membranes tailored by bio-inspired co-deposition of hydrophilic g-C ₃ N ₄ nanosheets for enhanced selectivity towards organics and salts. Environmental Science: Nano, 2019, 6, 2958-2967.	4.3	68
31	Electron Ptychography Using Fast Binary 4D STEM Data. Microscopy and Microanalysis, 2019, 25, 1662-1663.	0.4	3
32	Local Coordination in Metal-Organic Frameworks Probed in the Vibrational and Optical Regime by EELS. Microscopy and Microanalysis, 2019, 25, 606-607.	0.4	0
33	Surface Ligands Stabilized Lead Halide Perovskite Quantum Dot Photocatalyst for Visible Lightâ€Đriven Hydrogen Generation. Advanced Functional Materials, 2019, 29, 1905683.	14.9	85
34	Synthesis and Properties of a Compositional Series of MIL-53(Al) Metal–Organic Framework Crystal-Glass Composites. Journal of the American Chemical Society, 2019, 141, 15641-15648.	13.7	65
35	Effect of Inorganic Salt Blending on the CO ₂ Separation Performance and Morphology of Pebax1657/Ionic Liquid Gel Membranes. Industrial & Engineering Chemistry Research, 2019, 58, 3304-3313.	3.7	18
36	MOF-positioned polyamide membranes with a fishnet-like structure for elevated nanofiltration performance. Journal of Materials Chemistry A, 2019, 7, 16313-16322.	10.3	166

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37	Metal-organic framework crystal-glass composites. Nature Communications, 2019, 10, 2580.	12.8	97
38	Biocatalytic self-propelled submarine-like metal-organic framework microparticles with pH-triggered buoyancy control for directional vertical motion. Materials Today, 2019, 28, 10-16.	14.2	73
39	Open-source industrial-scale module simulation: Paving the way towards the right configuration choice for membrane distillation. Desalination, 2019, 464, 48-62.	8.2	18
40	Novel metal–organic framework materials: blends, liquids, glasses and crystal–glass composites. Chemical Communications, 2019, 55, 8705-8715.	4.1	72
41	Improving the Acidic Stability of Zeolitic Imidazolate Frameworks by Biofunctional Molecules. CheM, 2019, 5, 1597-1608.	11.7	148
42	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. Nature Communications, 2019, 10, 1340.	12.8	100
43	Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pHâ€5peed Regulation at Ultralow Physiological H ₂ O ₂ Concentration. Advanced Functional Materials, 2019, 29, 1808900.	14.9	66
44	Pinning Down the Water Transport Mechanism in Graphene Oxide Pervaporation Desalination Membranes. Industrial & amp; Engineering Chemistry Research, 2019, 58, 4231-4239.	3.7	35
45	Templated growth of vertically aligned 2D metal–organic framework nanosheets. Journal of Materials Chemistry A, 2019, 7, 5811-5818.	10.3	40
46	Flux melting of metal–organic frameworks. Chemical Science, 2019, 10, 3592-3601.	7.4	67
47	Unraveling the Interfacial Structure–Performance Correlation of Flexible Metal–Organic Framework Membranes on Polymeric Substrates. ACS Applied Materials & Interfaces, 2019, 11, 5570-5577.	8.0	29
48	Oriented Zeolitic imidazolate framework membranes within polymeric matrices for effective N2/CO2 separation. Journal of Membrane Science, 2019, 572, 82-91.	8.2	20
49	Membranes: Dopamine: Just the Right Medicine for Membranes (Adv. Funct. Mater. 8/2018). Advanced Functional Materials, 2018, 28, 1870052.	14.9	6
50	High-flux thin film composite membranes for nanofiltration mediated by a rapid co-deposition of polydopamine/piperazine. Journal of Membrane Science, 2018, 554, 97-108.	8.2	131
51	Linking defects, hierarchical porosity generation and desalination performance in metal–organic frameworks. Chemical Science, 2018, 9, 3508-3516.	7.4	65
52	Nanofilms directly formed on macro-porous substrates for molecular and ionic sieving. Journal of Materials Chemistry A, 2018, 6, 2908-2913.	10.3	33
53	Gelled Graphene Oxide–Ionic Liquid Composite Membranes with Enriched Ionic Liquid Surfaces for Improved CO ₂ Separation. ACS Applied Materials & Interfaces, 2018, 10, 7389-7400.	8.0	79
54	The rapid emergence of two-dimensional nanomaterials for high-performance separation membranes. Journal of Materials Chemistry A, 2018, 6, 3773-3792.	10.3	223

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55	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. Applied Materials Today, 2018, 10, 93-105.	4.3	62
56	Polymeric antimicrobial membranes enabled by nanomaterials for water treatment. Journal of Membrane Science, 2018, 550, 173-197.	8.2	198
57	Dopamine: Just the Right Medicine for Membranes. Advanced Functional Materials, 2018, 28, 1705327.	14.9	222
58	Fouling mitigation in submerged VMD for the treatment of brackish groundwater concentrates with transverse vibration and crystallizer. Desalination, 2018, 426, 32-41.	8.2	19
59	Surface functionalized UiO-66/Pebax-based ultrathin composite hollow fiber gas separation membranes. Journal of Materials Chemistry A, 2018, 6, 918-931.	10.3	151
60	Janus Membrane: Janus Membranes: Creating Asymmetry for Energy Efficiency (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870328.	21.0	7
61	Iono-Elastomer-Based Wearable Strain Sensor with Real-Time Thermomechanical Dual Response. ACS Applied Materials & Interfaces, 2018, 10, 32435-32443.	8.0	27
62	Ultraselective Pebax Membranes Enabled by Templated Microphase Separation. ACS Applied Materials & Interfaces, 2018, 10, 20006-20013.	8.0	48
63	Rapid water transport through controllable, ultrathin polyamide nanofilms for high-performance nanofiltration. Journal of Materials Chemistry A, 2018, 6, 15701-15709.	10.3	148
64	Janus Membranes: Creating Asymmetry for Energy Efficiency. Advanced Materials, 2018, 30, e1801495.	21.0	193
65	Switchable oil/water separation with efficient and robust Janus nanofiber membranes. Carbon, 2017, 115, 477-485.	10.3	131
66	Direct immobilization of laccase on titania nanoparticles from crude enzyme extracts of P. ostreatus culture for micro-pollutant degradation. Separation and Purification Technology, 2017, 178, 215-223.	7.9	125
67	Shear-aligned graphene oxide laminate/Pebax ultrathin composite hollow fiber membranes using a facile dip-coating approach. Journal of Materials Chemistry A, 2017, 5, 7732-7737.	10.3	61
68	Graphene-based antimicrobial polymeric membranes: a review. Journal of Materials Chemistry A, 2017, 5, 6776-6793.	10.3	174
69	Strategically Designing a Pumpless Microfluidic Device on an "Inert―Polypropylene Substrate with Potential Application in Biosensing and Diagnostics. Langmuir, 2017, 33, 5565-5576.	3.5	31
70	Superhydrophobic membranes via facile bio-inspired mineralization for vacuum membrane distillation. Journal of Membrane Science, 2017, 540, 98-107.	8.2	53
71	Graphene oxide-enzyme hybrid nanoflowers for efficient water soluble dye removal. Journal of Hazardous Materials, 2017, 338, 93-101.	12.4	99
72	Singleâ€Enzyme Biofuel Cells. Angewandte Chemie - International Edition, 2017, 56, 9762-9766.	13.8	23

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73	Elevated Performance of Thin Film Nanocomposite Membranes Enabled by Modified Hydrophilic MOFs for Nanofiltration. ACS Applied Materials & Interfaces, 2017, 9, 1975-1986.	8.0	368
74	Gold/silver decorated magnetic nanostructures as theranostic agents: Synthesis, characterization and in-vitro study. Journal of Molecular Liquids, 2017, 247, 238-245.	4.9	18
75	Preparation of Iridescent 2D Photonic Crystals by Using a Mussel-Inspired Spatial Patterning of ZIF-8 with Potential Applications in Optical Switch and Chemical Sensor. ACS Applied Materials & Interfaces, 2017, 9, 38076-38080.	8.0	47
76	Composite PVA/PVDF pervaporation membrane for concentrated brine desalination: Salt rejection, membrane fouling and defect control. Desalination, 2017, 422, 49-58.	8.2	62
77	Singleâ€Enzyme Biofuel Cells. Angewandte Chemie, 2017, 129, 9894-9898.	2.0	4
78	Enzyme-embedded metal–organic framework membranes on polymeric substrates for efficient CO ₂ capture. Journal of Materials Chemistry A, 2017, 5, 19954-19962.	10.3	74
79	Janus Reactors with Highly Efficient Enzymatic CO ₂ Nanocascade at Air–Liquid Interface. ACS Applied Materials & Interfaces, 2017, 9, 42806-42815.	8.0	25
80	Impact of wastewater derived dissolved interfering compounds on growth, enzymatic activity and trace organic contaminant removal of white rot fungi – A critical review. Journal of Environmental Management, 2017, 201, 89-109.	7.8	46
81	Nanostructured mesoporous carbon polyethersulfone composite ultrafiltration membrane with significantly low protein adsorption and bacterial adhesion. Carbon, 2017, 111, 689-704.	10.3	122
82	Janus hollow fiber membrane with a mussel-inspired coating on the lumen surface for direct contact membrane distillation. Journal of Membrane Science, 2017, 523, 1-7.	8.2	110
83	Improved operational stability of Pebax-based gas separation membranes with ZIF-8: A comparative study of flat sheet and composite hollow fibre membranes. Journal of Membrane Science, 2017, 524, 266-279.	8.2	182
84	Suppressing Salt Transport through Composite Pervaporation Membranes for Brine Desalination. Applied Sciences (Switzerland), 2017, 7, 856.	2.5	24
85	Formation of Ultrathin, Continuous Metal–Organic Framework Membranes on Flexible Polymer Substrates. Angewandte Chemie - International Edition, 2016, 55, 3947-3951.	13.8	207
86	Biocatalytic gas-liquid membrane contactors for CO2 hydration with immobilized carbonic anhydrase. Journal of Membrane Science, 2016, 520, 303-313.	8.2	53
87	Oriented Clay Nanotube Membrane Assembled on Microporous Polymeric Substrates. ACS Applied Materials & Interfaces, 2016, 8, 34914-34923.	8.0	62
88	Status and progress of membrane contactors in post-combustion carbon capture: A state-of-the-art review of new developments. Journal of Membrane Science, 2016, 511, 180-206.	8.2	249
89	Surface and interface engineering for organic–inorganic composite membranes. Journal of Materials Chemistry A, 2016, 4, 9716-9729.	10.3	143
90	Graphene Oxide Nanosheets Based Novel Facilitated Transport Membranes for Efficient CO ₂ Capture. Industrial & Engineering Chemistry Research, 2016, 55, 5403-5414.	3.7	46

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91	<i>Biodesalination</i> —On harnessing the potential of nature's desalination processes. Bioinspiration and Biomimetics, 2016, 11, 041001.	2.9	21
92	Enhanced CO2/N2 separation by porous reduced graphene oxide/Pebax mixed matrix membranes. Journal of Membrane Science, 2016, 520, 860-868.	8.2	185
93	Cross-linked carbon nanotubes-based biocatalytic membranes for micro-pollutants degradation: Performance, stability, and regeneration. Journal of Membrane Science, 2016, 520, 869-880.	8.2	83
94	Janus Membranes: Exploring Duality for Advanced Separation. Angewandte Chemie - International Edition, 2016, 55, 13398-13407.	13.8	407
95	Janusâ€Membranen: Erforschung ihrer Dualitäfür hochentwickelte Stofftrennungen. Angewandte Chemie, 2016, 128, 13596-13605.	2.0	13
96	Formation of Ultrathin, Continuous Metal–Organic Framework Membranes on Flexible Polymer Substrates. Angewandte Chemie, 2016, 128, 4015-4019.	2.0	32
97	Janus Membranes with Asymmetric Wettability for Fine Bubble Aeration. Advanced Materials Interfaces, 2016, 3, 1500774.	3.7	119
98	A novel long-lasting antifouling membrane modified with bifunctional capsaicin-mimic moieties via in situ polymerization for efficient water purification. Journal of Materials Chemistry A, 2016, 4, 10352-10362.	10.3	48
99	Surface zwitterionic functionalized graphene oxide for a novel loose nanofiltration membrane. Journal of Materials Chemistry A, 2016, 4, 1980-1990.	10.3	326
100	Zwitterionic functionalized layered double hydroxides nanosheets for a novel charged mosaic membrane with high salt permeability. Journal of Membrane Science, 2016, 510, 27-37.	8.2	85
101	Biocatalytic degradation of carbamazepine with immobilized laccase-mediator membrane hybrid reactor. Journal of Membrane Science, 2016, 502, 11-20.	8.2	98
102	Long-lasting antibacterial behavior of a novel mixed matrix water purification membrane. Journal of Materials Chemistry A, 2015, 3, 18696-18705.	10.3	85
103	Biocatalytic Janus membranes for CO ₂ removal utilizing carbonic anhydrase. Journal of Materials Chemistry A, 2015, 3, 17032-17041.	10.3	92
104	A facile, bio-inspired synthetic route toward flower-like copper phosphate crystals with high specific surface area. Materials Letters, 2015, 161, 601-604.	2.6	13
105	Preparation of titania based biocatalytic nanoparticles and membranes for CO ₂ conversion. Journal of Materials Chemistry A, 2015, 3, 3332-3342.	10.3	77
106	Laccase immobilization on titania nanoparticles and titania-functionalized membranes. Journal of Membrane Science, 2014, 452, 229-240.	8.2	173
107	Hybrid membrane with TiO 2 based bio-catalytic nanoparticle suspension system for the degradation of bisphenol-A. Bioresource Technology, 2014, 169, 475-483.	9.6	73
108	Enzymatic degradation of bisphenol-A with immobilized laccase on TiO2 sol–gel coated PVDF membrane. Journal of Membrane Science, 2014, 469, 19-30.	8.2	193

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109	Experimental investigation of low temperature distillation coupled with spray evaporation. Desalination, 2010, 258, 5-11.	8.2	18
110	Mechanochemically Synthesised Flexible Electrodes based on Bimetallic Metalâ€organic Framework Glasses for the Oxygen Evolution Reaction. Angewandte Chemie, 0, , .	2.0	7