

Qiang Lyu

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

375
citations

840776

11
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

263
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport. <i>Nature Communications</i> , 2022, 13, 266.	12.8	76
2	Highly CO ₂ Selective Metal-Organic Framework Membranes with Favorable Coulombic Effect. <i>Advanced Functional Materials</i> , 2021, 31, 2006924.	14.9	42
3	Exploring the Potential of Defective UiO-66 as Reverse Osmosis Membranes for Desalination. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16118-16126.	3.1	35
4	Rational Design of Two-Dimensional Hydrocarbon Polymer as Ultrathin-Film Nanoporous Membranes for Water Desalination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18778-18786.	8.0	31
5	Facile Defect Engineering of Zeolitic Imidazolate Frameworks towards Enhanced C ₃ H ₆ /C ₃ H ₈ Separation Performance. <i>Advanced Functional Materials</i> , 2021, 31, 2105577.	14.9	26
6	Computational discovery of nanoporous materials for energy- and environment-related applications. <i>Molecular Simulation</i> , 2019, 45, 1122-1147.	2.0	23
7	Suppressing Defect Formation in Metal-Organic Framework Membranes via Plasma-Assisted Synthesis for Gas Separations. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41904-41915.	8.0	23
8	Coulombic effect on permeation of CO ₂ in metal-organic framework membranes. <i>Journal of Membrane Science</i> , 2021, 639, 119742.	8.2	23
9	Superhydrophobic Carbon Nanotube Network Membranes for Membrane Distillation: High-Throughput Performance and Transport Mechanism. <i>Environmental Science & Technology</i> , 2022, 56, 5775-5785.	10.0	21
10	Exploiting interior surface functionalization in reverse osmosis desalination membranes to mitigate permeability-selectivity trade-off: Molecular simulations of nanotube-based membranes. <i>Desalination</i> , 2020, 491, 114537.	8.2	17
11	Tunable rare-earth metal-organic frameworks for ultra-high selenite capture. <i>Journal of Hazardous Materials</i> , 2022, 436, 129094.	12.4	11
12	Hexagonal Superalignment of Nano-Objects with Tunable Separation in a Dilute and Spacer-Free Solution. <i>Physical Review Letters</i> , 2019, 123, 238002.	7.8	10
13	Harnessed Dopant Block Copolymers Assist Decorating Membrane Pores: A Dissipative Particle Dynamics Study. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900561.	3.9	7
14	A flame-retardant post-synthetically functionalized COF sponge as absorbent for spilled oil recovery. <i>Journal of Materials Science</i> , 2021, 56, 13031.	3.7	6
15	Transport-Relevant Pore Limiting Diameter for Molecular Separations in Metal-Organic Framework Membranes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20416-20425.	3.1	6
16	Potential and design of imine-linked two-dimensional covalent organic framework membranes for Ethane/Methane separation. <i>Applied Surface Science</i> , 2022, 585, 152601.	6.1	5
17	Interplay of distributions of multiple guest molecules in block copolymer micelles: A dissipative particle dynamics study. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1142-1152.	9.4	4
18	Control one-dimensional length of rectangular pore on graphene membrane for better desalination performance. <i>Nanotechnology</i> , 2022, 33, 245705.	2.6	4

#	ARTICLE	IF	CITATIONS
19	Effect of linker configuration and functionalization on the seawater desalination performance of Zr-MOF membrane. <i>Chemical Physics Letters</i> , 2021, 780, 138949.	2.6	3
20	Theoretical Prediction of Mechanical Strength and Desalination Performance of One-Atom-Thick Hydrocarbon Polymer in Pressure-Driven Separation. <i>Polymers</i> , 2019, 11, 1358.	4.5	2