

Zhiping Lai

List of Publications by Year in descending order

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153
papers

13,123
citations

29994

54
h-index

23472

111
g-index

163
all docs

163
docs citations

163
times ranked

12949
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals in an aqueous system. <i>Chemical Communications</i> , 2011, 47, 2071.	2.2	1,330
2	Merocyanine 540 as an optical probe of transmembrane electrical activity in the heart. <i>Science</i> , 2003, 191, 485-487.	6.0	987
3	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO ₂ by Dual Functionalization of a <i>rh</i> -Type Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1412-1415.	7.2	430
4	Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. <i>Journal of Membrane Science</i> , 2013, 425-426, 235-242.	4.1	387
5	Effective separation of propylene/propane binary mixtures by ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2012, 390-391, 93-98.	4.1	384
6	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. <i>CrystEngComm</i> , 2011, 13, 6937.	1.3	371
7	High-performance polyamide thin-film-nanocomposite reverse osmosis membranes containing hydrophobic zeolitic imidazolate framework-8. <i>Journal of Membrane Science</i> , 2015, 476, 303-310.	4.1	365
8	Synthesis of continuous MOF-5 membranes on porous γ -alumina substrates. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 296-301.	2.2	347
9	Crystalline 2D Covalent Organic Framework Membranes for High-Flux Organic Solvent Nanofiltration. <i>Journal of the American Chemical Society</i> , 2018, 140, 14342-14349.	6.6	313
10	Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , 2017, 16, 532-536.	13.3	306
11	Sharp separation of C2/C3 hydrocarbon mixtures by zeolitic imidazolate framework-8 (ZIF-8) membranes synthesized in aqueous solutions. <i>Chemical Communications</i> , 2011, 47, 10275.	2.2	303
12	Fabrication of MOF-5 membranes using microwave-induced rapid seeding and solvothermal secondary growth. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 100-106.	2.2	293
13	An Air-Stable Copper Reagent for Nucleophilic Trifluoromethylthiolation of Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1548-1552.	7.2	281
14	Siliceous ZSM-5 Membranes by Secondary Growth of b-Oriented Seed Layers. <i>Advanced Functional Materials</i> , 2004, 14, 716-729.	7.8	240
15	Synthesis and characterization of ZIF-69 membranes and separation for CO ₂ /CO mixture. <i>Journal of Membrane Science</i> , 2010, 353, 36-40.	4.1	239
16	Metal-Organic Framework-Based Separators for Enhancing Li-S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017, 2, 2362-2367.	8.8	229
17	Separation of Xylene Isomer Vapors with Oriented MFI Membranes Made by Seeded Growth. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 544-552.	1.8	227
18	Synthesis of highly c-oriented ZIF-69 membranes by secondary growth and their gas permeation properties. <i>Journal of Membrane Science</i> , 2011, 379, 46-51.	4.1	204

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19	Synthesis of ceramic hollow fiber supported zeolitic imidazolate framework-8 (ZIF-8) membranes with high hydrogen permeability. <i>Journal of Membrane Science</i> , 2012, 421-422, 292-298.	4.1	187
20	A Novel Anaerobic Electrochemical Membrane Bioreactor (AnEMBR) with Conductive Hollow-fiber Membrane for Treatment of Low-Organic Strength Solutions. <i>Environmental Science & Technology</i> , 2014, 48, 12833-12841.	4.6	183
21	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018, 13, 345-350.	15.6	157
22	Uniformly-Oriented MFI Zeolite Films by Secondary Growth. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1154-1158.	7.2	138
23	MXene based self-assembled cathode and antifouling separator for high-rate and dendrite-inhibited Li-S battery. <i>Nano Energy</i> , 2019, 61, 478-485.	8.2	131
24	Development of ZIF-8 membranes: opportunities and challenges for commercial applications. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 78-85.	3.8	125
25	Enhanced Reactivities toward Amines by Introducing an Imine Arm to the Pincer Ligand: Direct Coupling of Two Amines To Form an Imine Without Oxidant. <i>Organometallics</i> , 2012, 31, 5208-5211.	1.1	123
26	Porous Hollow Fiber Nickel Electrodes for Effective Supply and Reduction of Carbon Dioxide to Methane through Microbial Electrosynthesis. <i>Advanced Functional Materials</i> , 2018, 28, 1804860.	7.8	122
27	Enabling storage and utilization of low-carbon electricity: power to formic acid. <i>Energy and Environmental Science</i> , 2021, 14, 1194-1246.	15.6	119
28	Separation of close-boiling hydrocarbon mixtures by MFI and FAU membranes made by secondary growth. <i>Microporous and Mesoporous Materials</i> , 2001, 48, 219-228.	2.2	109
29	Enhanced Visible-Light Activity of Titania via Confinement inside Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 14896-14899.	6.6	102
30	Gas and Organic Vapor Permeation through b-Oriented MFI Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 3000-3007.	1.8	101
31	Graphene-Coated Hollow Fiber Membrane as the Cathode in Anaerobic Electrochemical Membrane Bioreactors – Effect of Configuration and Applied Voltage on Performance and Membrane Fouling. <i>Environmental Science & Technology</i> , 2016, 50, 4439-4447.	4.6	100
32	Porous nickel hollow fiber cathodes coated with CNTs for efficient microbial electrosynthesis of acetate from CO ₂ using <i>Sporomusa ovata</i> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 17201-17211.	5.2	100
33	Using UCST Ionic Liquid as a Draw Solute in Forward Osmosis to Treat High-Salinity Water. <i>Environmental Science & Technology</i> , 2016, 50, 1039-1045.	4.6	99
34	Continuous electrical pumping membrane process for seawater lithium mining. <i>Energy and Environmental Science</i> , 2021, 14, 3152-3159.	15.6	98
35	Selective Hydrogen Generation from Formic Acid with Well-Defined Complexes of Ruthenium and Phosphorus-Nitrogen Pincer Ligand. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1357-1360.	1.7	94
36	Synthesis of Sub-10 nm Two-Dimensional Covalent Organic Thin Film with Sharp Molecular Sieving Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12295-12299.	4.0	94

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37	Improved ZIF-8 membrane: Effect of activation procedure and determination of diffusivities of light hydrocarbons. <i>Journal of Membrane Science</i> , 2015, 493, 88-96.	4.1	93
38	Covalent Organic Framework Embedded with Magnetic Nanoparticles for MRI and Chemo-Thermotherapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 18782-18794.	6.6	89
39	Covalent Assembly of Two-Dimensional COF-on-MXene Heterostructures Enables Fast Charging Lithium Hosts. <i>Advanced Functional Materials</i> , 2021, 31, 2101194.	7.8	83
40	ZIF-8 membranes with improved reproducibility fabricated from sputter-coated ZnO/alumina supports. <i>Chemical Engineering Science</i> , 2016, 141, 119-124.	1.9	82
41	Electropolymerization of robust conjugated microporous polymer membranes for rapid solvent transport and narrow molecular sieving. <i>Nature Communications</i> , 2020, 11, 5323.	5.8	80
42	Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. <i>Chemical Science</i> , 2020, 11, 5434-5440.	3.7	78
43	Aqueously Cathodic Deposition of ZIF-8 Membranes for Superior Propylene/Propane Separation. <i>Advanced Functional Materials</i> , 2020, 30, 1907089.	7.8	77
44	Formic Acid to Power towards Low-Carbon Economy. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	77
45	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018, 12, 836-843.	7.3	76
46	Hydrogenation of Esters Catalyzed by Ruthenium PN ³ -Pincer Complexes Containing an Aminophosphine Arm. <i>Organometallics</i> , 2014, 33, 4152-4155.	1.1	74
47	Molecular Dynamics Simulations on Gate Opening in ZIF-8: Identification of Factors for Ethane and Propane Separation. <i>Langmuir</i> , 2013, 29, 8865-8872.	1.6	73
48	Synthesis of core-shell heterostructured Cu/Cu ₂ O nanowires monitored by in situ XRD as efficient visible-light photocatalysts. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13862.	5.2	71
49	Fabrication and gas separation properties of polybenzimidazole (PBI)/nanoporous silicates hybrid membranes. <i>Journal of Membrane Science</i> , 2008, 316, 145-152.	4.1	70
50	Simultaneous production and functionalization of hexagonal boron nitride nanosheets by solvent-free mechanical exfoliation for superlubricant water-based lubricant additives. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	68
51	Selective separation of oil and water with mesh membranes by capillarity. <i>Advances in Colloid and Interface Science</i> , 2016, 235, 46-55.	7.0	64
52	Sorption Hysteresis of Light Hydrocarbons and Carbon Dioxide in Shale and Kerogen. <i>Scientific Reports</i> , 2017, 7, 16209.	1.6	63
53	Giant Osmotic Energy Conversion through Vertical-Aligned Ion-Permselective Nanochannels in Covalent Organic Framework Membranes. <i>Journal of the American Chemical Society</i> , 2022, 144, 12400-12409.	6.6	62
54	Porous covalent triazine piperazine polymer (CTPP)/PEBAX mixed matrix membranes for CO ₂ /N ₂ and CO ₂ /CH ₄ separations. <i>Journal of Membrane Science</i> , 2019, 591, 117348.	4.1	59

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55	Performance and Stability Improvement of Layered NCM Lithium-Ion Batteries at High Voltage by a Microporous Al ₂ O ₃ Sol-Gel Coating. ACS Omega, 2019, 4, 13972-13980.	1.6	57
56	Foldable Solid-State Batteries Enabled by Electrolyte Mediation in Covalent Organic Frameworks. Advanced Materials, 2022, 34, e2201410.	11.1	57
57	Diverse catalytic reactivity of a dearomatized PN ³ P nickel hydride pincer complex towards CO ₂ reduction. Chemical Communications, 2018, 54, 11395-11398.	2.2	56
58	Electropolymerized Conjugated Microporous Nanoskin Regulating Polysulfide and Electrolyte for High-Energy Li-S Batteries. ACS Nano, 2020, 14, 17163-17173.	7.3	55
59	Facile synthesis of triazine-triphenylamine-based microporous covalent polymer adsorbent for flue gas CO ₂ capture. Microporous and Mesoporous Materials, 2018, 255, 76-83.	2.2	53
60	Selective Catalytic Hydrogenation of Arenols by a Well-Defined Complex of Ruthenium and Phosphorus-Nitrogen PN ³ P Pincer Ligand Containing a Phenanthroline Backbone. ACS Catalysis, 2017, 7, 4446-4450.	5.5	50
61	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. Angewandte Chemie - International Edition, 2022, 61, .	7.2	50
62	Conversion of CO ₂ from air into formate using amines and phosphorus-nitrogen PN ³ P-Ru(pincer) complexes. Green Chemistry, 2018, 20, 4201-4205.	4.6	49
63	Fabrication of highly permeable polyamide membranes with large leaf-like surface nanostructures on inorganic supports for organic solvent nanofiltration. Journal of Membrane Science, 2020, 601, 117932.	4.1	49
64	Preparation of b-Oriented MFI Films on Porous Stainless Steel Substrates. Industrial & Engineering Chemistry Research, 2005, 44, 9086-9095.	1.8	48
65	Polycrystalline metal-organic framework (MOF) membranes for molecular separations: Engineering prospects and challenges. Journal of Membrane Science, 2021, 640, 119802.	4.1	48
66	Cobalt-Catalyzed Selective Hydrogenation of Nitriles to Secondary Imines. Organic Letters, 2018, 20, 6430-6435.	2.4	46
67	Precise Sub-Angstrom Ion Separation Using Conjugated Microporous Polymer Membranes. ACS Nano, 2021, 15, 11970-11980.	7.3	46
68	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation. Science Advances, 2022, 8, eabm6741.	4.7	46
69	Analysis of hollow fibre membrane systems for multicomponent gas separation. Chemical Engineering Research and Design, 2013, 91, 332-347.	2.7	45
70	A rationally designed amino-borane complex in a metal organic framework: a novel reusable hydrogen storage and size-selective reduction material. Chemical Communications, 2015, 51, 7610-7613.	2.2	44
71	Removal of trivalent chromium contaminant from aqueous media using FAU-type zeolite membranes. Journal of Membrane Science, 2008, 312, 163-173.	4.1	41
72	Layer-dependent supercapacitance of graphene films grown by chemical vapor deposition on nickel foam. Journal of Power Sources, 2013, 225, 251-256.	4.0	41

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73	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. <i>Advanced Materials</i> , 2017, 29, 1605826.	11.1	40
74	Spatially isolated palladium in porous organic polymers by direct knitting for versatile organic transformations. <i>Journal of Catalysis</i> , 2017, 355, 101-109.	3.1	40
75	Efficient electrochemical transformation of CO ₂ to C ₂ /C ₃ chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018, 54, 11324-11327.	2.2	39
76	Strain of MFI crystals in membranes: An in situ synchrotron X-ray study. <i>Microporous and Mesoporous Materials</i> , 2005, 84, 332-337.	2.2	38
77	Graphene oxide – molybdenum disulfide hybrid membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2018, 550, 145-154.	4.1	38
78	Preparation of Highly Porous Polymer Membranes with Hierarchical Porous Structures via Spinodal Decomposition of Mixed Solvents with UCST Phase Behavior. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44041-44049.	4.0	38
79	Renewable aromatics from the degradation of polystyrene under mild conditions. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 983-989.	2.4	36
80	Single-site Ruthenium Pincer Complex Knitted into Porous Organic Polymers for Dehydrogenation of Formic Acid. <i>ChemSusChem</i> , 2018, 11, 3591-3598.	3.6	36
81	Cyclodextrin polymer networks decorated with subnanometer metal nanoparticles for high-performance low-temperature catalysis. <i>Science Advances</i> , 2019, 5, eaax6976.	4.7	35
82	Benzo-thiazole-Linked Metal-Free Covalent Organic Framework Nanostructures for Visible-Light-Driven Photocatalytic Conversion of Phenylboronic Acids to Phenols. <i>ACS Applied Nano Materials</i> , 2021, 4, 11732-11742.	2.4	35
83	Layer-by-Layer Deposition of Barrier and Permselective <i>c/i</i> -Oriented-MCM-22/Silica Composite Films. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 7096-7106.	1.8	33
84	A Green Approach to Ethyl Acetate: Quantitative Conversion of Ethanol through Direct Dehydrogenation in a Pd – Ag Membrane Reactor. <i>Chemistry - A European Journal</i> , 2012, 18, 15940-15943.	1.7	33
85	Modeling and parametric analysis of hollow fiber membrane system for carbon capture from multicomponent flue gas. <i>AIChE Journal</i> , 2012, 58, 1550-1561.	1.8	33
86	Chlorine-functionalized keto-enamine-based covalent organic frameworks for CO ₂ separation and capture. <i>CrystEngComm</i> , 2018, 20, 7621-7625.	1.3	33
87	The Ionic Liquid – H ₂ O Interface: A New Platform for the Synthesis of Highly Crystalline and Molecular Sieving Covalent Organic Framework Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36507-36516.	4.0	31
88	Exfoliation of two-dimensional zeolites in liquid polybutadienes. <i>Chemical Communications</i> , 2017, 53, 7011-7014.	2.2	29
89	Electropolymerization growth of an ultrathin, compact, conductive and microporous (UCCM) polycarbazole membrane for high energy Li – S batteries. <i>Nano Energy</i> , 2020, 73, 104769.	8.2	29
90	Combining simultaneous reflectance and fluorescence imaging with SEM for conclusive identification of polycrystalline features of MFI membranes. <i>Microporous and Mesoporous Materials</i> , 2004, 76, 29-33.	2.2	27

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91	Highly stable porous covalent triazineâ€“piperazine linked nanoflower as a feasible adsorbent for flue gas CO ₂ capture. <i>Chemical Engineering Science</i> , 2016, 145, 21-30.	1.9	27
92	Zeolitic Imidazolate Framework-Mediated Synthesis of Co ₃ O ₄ Nanoparticles Encapsulated in N-Doped Graphitic Carbon as an Efficient Catalyst for Selective Oxidation of Hydrocarbons. <i>ACS Applied Nano Materials</i> , 2018, 1, 4836-4851.	2.4	27
93	High-performance 7-channel monolith supported SSZ-13 membranes for high-pressure CO ₂ /CH ₄ separations. <i>Journal of Membrane Science</i> , 2021, 629, 119277.	4.1	27
94	Preparation of metal oxide/zeolite coreâ€“shell nanostructures. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 210-217.	2.2	26
95	Room temperature hydrogen generation from hydrolysis of ammoniaâ€“borane over an efficient NiAgPd/C catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20031-20037.	3.8	26
96	Protection of Lithium Anode by a Highly Porous PVDF Membrane for High-Performance Liâ€“S Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 2510-2515.	2.5	26
97	A general Ca-MOM platform with enhanced acid-base stability for enzyme biocatalysis. <i>Chem Catalysis</i> , 2021, 1, 146-161.	2.9	26
98	Metalâ€“organic-framework derived Coâ€“Pd bond is preferred over Feâ€“Pd for reductive upgrading of furfural to tetrahydrofurfuryl alcohol. <i>Dalton Transactions</i> , 2019, 48, 8791-8802.	1.6	25
99	A facile approach to synthesize SSZ-13 membranes with ultrahigh N ₂ permeances for efficient N ₂ /CH ₄ separations. <i>Journal of Membrane Science</i> , 2021, 632, 119349.	4.1	25
100	An Ultrahighâ€“Flux Nanoporous Graphene Membrane for Sustainable Seawater Desalination using Lowâ€“Grade Heat. <i>Advanced Materials</i> , 2022, 34, e2109718.	11.1	25
101	Synthesis of highly c-oriented AFI membranes by epitaxial growth. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 81-86.	2.2	24
102	Finger-like voids induced by viscous fingering during phase inversion of alumina/PES/NMP suspensions. <i>Journal of Membrane Science</i> , 2012, 405-406, 275-283.	4.1	24
103	Flexible Ionic Conjugated Microporous Polymer Membranes for Fast and Selective Ion Transport. <i>Advanced Functional Materials</i> , 2022, 32, 2108672.	7.8	22
104	A Pseudodearomatized PN ³ P*Niâ€“H Complex as a Ligand and Îƒ-Nucleophilic Catalyst. <i>Journal of Organic Chemistry</i> , 2018, 83, 14969-14977.	1.7	21
105	Selective conversion of polystyrene into renewable chemical feedstock under mild conditions. <i>Waste Management</i> , 2018, 78, 871-879.	3.7	21
106	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Coreâ€“Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20752-20761.	4.0	20
107	Effect of specific cathode surface area on biofouling in an anaerobic electrochemical membrane bioreactor: Novel insights using high-speed video camera. <i>Journal of Membrane Science</i> , 2019, 577, 176-183.	4.1	20
108	Diffusion as a function of guest molecule length and functionalization in flexible metalâ€“organic frameworks. <i>Materials Horizons</i> , 2016, 3, 355-361.	6.4	19

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109	Fabrication and molecular transport studies of highly c-Oriented AFI membranes. <i>Journal of Membrane Science</i> , 2017, 528, 46-54.	4.1	19
110	Osmotic Heat Engine Using Thermally Responsive Ionic Liquids. <i>Environmental Science & Technology</i> , 2017, 51, 9403-9409.	4.6	18
111	One-Pot Synthesis of N -(\pm -Peroxy)Indole/Carbazole via Chemoselective Three-Component Condensation Reaction in Open Atmosphere. <i>Organic Letters</i> , 2015, 17, 5630-5633.	2.4	16
112	Modelling and sequential simulation of multi-tubular metallic membrane and techno-economics of a hydrogen production process employing thin-layer membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19081-19097.	3.8	16
113	A highly stable microporous covalent imine network adsorbent for natural gas upgrading and flue gas CO ₂ capture. <i>Separation and Purification Technology</i> , 2016, 170, 68-77.	3.9	16
114	Membrane Systems Engineering for Post-combustion Carbon Capture. <i>Energy Procedia</i> , 2013, 37, 976-985.	1.8	15
115	Attainability and minimum energy of single-stage membrane and membrane/distillation hybrid processes. <i>Journal of Membrane Science</i> , 2014, 472, 272-280.	4.1	15
116	Redox-Triggered Buoyancy and Size Modulation of a Dynamic Covalent Gel. <i>Chemistry of Materials</i> , 2019, 31, 4148-4155.	3.2	15
117	Nanoporous polyethersulfone membranes prepared by mixed solvent phase separation method for protein separation. <i>Journal of Membrane Science</i> , 2021, 635, 119507.	4.1	15
118	Gas separation performance and physical aging of tubular thin-film composite carbon molecular sieve membranes based on a polyimide of intrinsic microporosity precursor. <i>Journal of Membrane Science</i> , 2022, 652, 120497.	4.1	15
119	Conjugated microporous polymer membranes for light-gated ion transport. <i>Science Advances</i> , 2022, 8, .	4.7	15
120	Nerve network-inspired solid polymer electrolytes (NN-SPE) for fast and single-ion lithium conduction. <i>Energy Storage Materials</i> , 2022, 49, 575-582.	9.5	13
121	Adsorption Properties of the SAPO-5 Molecular Sieve. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3286-3289.	1.0	12
122	Tuning the Surface Structure of Polyamide Membranes Using Porous Carbon Nitride Nanoparticles for High-Performance Seawater Desalination. <i>Membranes</i> , 2020, 10, 163.	1.4	12
123	Synthesis of Ni ²⁺ /Silicalite-1 Core-Shell Micromembrane Reactors and Their Reaction/Diffusion Performance. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12423-12428.	1.8	11
124	Dual-Function Conductive Copper Hollow Fibers for Microfiltration and Anti-biofouling in Electrochemical Membrane Bioreactors. <i>Frontiers in Chemistry</i> , 2018, 6, 445.	1.8	11
125	Observation of high T_c one dimensional superconductivity in 4 angstrom carbon nanotube arrays. <i>AIP Advances</i> , 2017, 7, .	0.6	10
126	Fabrication of Self-Entangled 3D Carbon Nanotube Networks from Metal-Organic Frameworks for Li-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 7075-7082.	2.4	10

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127	Asymmetric cathode membrane with tunable positive charge networks for highly stable Li ⁺ S batteries. <i>Energy Storage Materials</i> , 2020, 25, 33-40.	9.5	10
128	Exfoliation of surfactant swollen layered MWW zeolites into two-dimensional zeolite nanosheets using telechelic liquid polybutadiene. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110883.	2.2	10
129	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	10
130	A Two-Dimensional Stacked Metal-Organic Framework for Ultra Highly-Efficient CO ₂ Sieving. <i>Chemical Engineering Journal</i> , 2022, 449, 137768.	6.6	10
131	Modulation of destructive quantum interference by bridge groups in truxene-based single-molecule junctions. <i>Chemical Communications</i> , 2021, 57, 667-670.	2.2	9
132	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO ₂ reduction. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 708-712.	2.4	8
133	Facile Single-Step Fabrication of Robust Superhydrophobic Carbon Nanotube Films on Different Porous Supports. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2976-2982.	1.8	8
134	Reliable and Novel Approach Based on Thermodynamic Property Estimation of Low to High Salinity Aqueous Sodium Chloride Solutions for Water-Energy Nexus Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16029-16042.	1.8	8
135	Fixed-Bed Adsorption Separation Of Xylene Isomers over SiO ₂ /Silicalite-1 Core-Shell Adsorbents. <i>Chemical Engineering Research Bulletin</i> , 2013, 16, .	0.2	7
136	Attainability and minimum energy of multiple-stage cascade membrane systems. <i>Journal of Membrane Science</i> , 2015, 495, 284-293.	4.1	6
137	Environmentally benign synthesis of amides and ureas via catalytic dehydrogenation coupling of volatile alcohols and amines in a Pd-Ag membrane reactor. <i>Journal of Membrane Science</i> , 2016, 515, 212-218.	4.1	6
138	Tailored pore size and microporosity of covalent organic framework (COF) membranes for improved molecular separation. , 2021, 1, 100008.		6
139	C ⁺ S Cross-Coupling Reactions Catalyzed by Recyclable Core-Shell Structured Copper/Cu ₂ O Nanowires Under Ligand-Free Conditions. <i>Journal of Molecular and Engineering Materials</i> , 2015, 03, 1540001.	0.9	5
140	Automated process flowsheet synthesis for membrane processes using genetic algorithm: role of crossover operators. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1201-1206.	0.3	5
141	Silicalite-1 crystals with modified morphology: HRTEM imaging and synthesis of b-oriented films. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 1160-1167.	1.5	4
142	Aqueous Cathodic Deposition: Aqueously Cathodic Deposition of ZIF ⁸ Membranes for Superior Propylene/Propane Separation (<i>Adv. Funct. Mater.</i> 7/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070042.	7.8	4
143	Enhancement of critical current density in a superconducting NbSe ₂ step junction. <i>Nanoscale</i> , 2020, 12, 12076-12082.	2.8	4
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