

Zhiping Lai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149
papers

9,742
citations

44
h-index

97
g-index

163
ext. papers

11,302
ext. citations

9.6
avg, IF

6.48
L-index

#	Paper	IF	Citations
149	Ultrahigh-flux Nanoporous Graphene Membrane for Sustainable Seawater Desalination Using Low-grade Heat.. <i>Advanced Materials</i> , 2022 , e2109718	24	1
148	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation.. <i>Science Advances</i> , 2022 , 8, eabm6741	14.3	6
147	Foldable Solid-state Batteries Enabled by Electrolyte Mediation in Covalent Organic Frameworks.. <i>Advanced Materials</i> , 2022 , e2201410	24	6
146	Conjugated microporous polymer membranes for chemical separations. <i>Chinese Journal of Chemical Engineering</i> , 2022 , 45, 1-14	3.2	
145	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	9.6	1
144	Nerve network-inspired solid polymer electrolytes (NN-SPE) for fast and single-ion lithium conduction. <i>Energy Storage Materials</i> , 2022 , 49, 575-582	19.4	0
143	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	8
142	Covalent Assembly of Two-Dimensional COF-on-MXene Heterostructures Enables Fast Charging Lithium Hosts. <i>Advanced Functional Materials</i> , 2021 , 31, 2101194	15.6	16
141	A general Ca-MOM platform with enhanced acid-base stability for enzyme biocatalysis. <i>Chem Catalysis</i> , 2021 , 1, 146-161		8
140	Precise Sub-Angstrom Ion Separation Using Conjugated Microporous Polymer Membranes. <i>ACS Nano</i> , 2021 ,	16.7	10
139	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	9.6	9
138	The Ionic Liquid-HO 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	9.5	7
137	Peierls-type metal-insulator transition in carbon nanostructures. <i>Carbon</i> , 2021 , 172, 106-111	10.4	1
136	Modulation of destructive quantum interference by bridge groups in truxene-based single-molecule junctions. <i>Chemical Communications</i> , 2021 , 57, 667-670	5.8	4
135	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	5.3	2
134	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	9.6	5
133	Nanoporous polyethersulfone membranes prepared by mixed solvent phase separation method for protein separation. <i>Journal of Membrane Science</i> , 2021 , 635, 119507	9.6	1

132	Polycrystalline metal-organic framework (MOF) membranes for molecular separations: Engineering prospects and challenges. <i>Journal of Membrane Science</i> , 2021 , 640, 119802	9.6	12
131	Enabling storage and utilization of low-carbon electricity: power to formic acid. <i>Energy and Environmental Science</i> , 2021 , 14, 1194-1246	35.4	37
130	Continuous electrical pumping membrane process for seawater lithium mining. <i>Energy and Environmental Science</i> , 2021 , 14, 3152-3159	35.4	18
129	Tailored pore size and microporosity of covalent organic framework (COF) membranes for improved molecular separation 2021 , 1, 100008		1
128	Fructose to Sorbents: Synthesis of Metal-Organic Frameworks Directly from Biomass for Humid Shale Gas Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 17310-17318	8.3	0
127	Mechanistic elucidation of the role of metal oxidation states in nickel mediated electrocatalytic coupling of benzyl halides. <i>Green Synthesis and Catalysis</i> , 2020 , 1, 143-149	9.3	2
126	Membrane Technology 2020 , 327-373		1
125	Selective catalytic transformation of polystyrene into ethylbenzene over Fe-Cu-Co/Alumina. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 345-350	4.3	1
124	Protection of Lithium Anode by a Highly Porous PVDF Membrane for High-Performance LiS Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2510-2515	6.1	11
123	Fabrication of highly permeable polyamide membranes with large leaf-like surface nanostructures on inorganic supports for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 601, 117932	9.6	26
122	Aqueous Cathodic Deposition: Aqueously Cathodic Deposition of ZIF-8 Membranes for Superior Propylene/Propane Separation (Adv. Funct. Mater. 7/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070042	15.6	3
121	Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. <i>Chemical Science</i> , 2020 , 11, 5434-5440	9.4	32
120	Electropolymerization growth of an ultrathin, compact, conductive and microporous (UCCM) polycarbazole membrane for high energy LiS batteries. <i>Nano Energy</i> , 2020 , 73, 104769	17.1	15
119	Enhancement of critical current density in a superconducting NbSe step junction. <i>Nanoscale</i> , 2020 , 12, 12076-12082	7.7	1
118	Aqueously Cathodic Deposition of ZIF-8 Membranes for Superior Propylene/Propane Separation. <i>Advanced Functional Materials</i> , 2020 , 30, 1907089	15.6	44
117	Asymmetric cathode membrane with tunable positive charge networks for highly stable LiS batteries. <i>Energy Storage Materials</i> , 2020 , 25, 33-40	19.4	7
116	Covalent Organic Framework Embedded with Magnetic Nanoparticles for MRI and Chemo-Thermotherapy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18782-18794	16.4	37
115	Electropolymerization of robust conjugated microporous polymer membranes for rapid solvent transport and narrow molecular sieving. <i>Nature Communications</i> , 2020 , 11, 5323	17.4	32

114	Electropolymerized Conjugated Microporous Nanoskin Regulating Polysulfide and Electrolyte for High-Energy Li-S Batteries. <i>ACS Nano</i> , 2020 ,	16.7	31
113	Tuning the Surface Structure of Polyamide Membranes Using Porous Carbon Nitride Nanoparticles for High-Performance Seawater Desalination. <i>Membranes</i> , 2020 , 10,	3.8	4
112	Unsupervised Person Re-identification via Discriminative Exemplar-level and Patch-level Feature Fusion. <i>Journal of Physics: Conference Series</i> , 2020 , 1518, 012023	0.3	0
111	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	3.9	3
110	Facile Single-Step Fabrication of Robust Superhydrophobic Carbon Nanotube Films on Different Porous Supports. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2976-2982	3.9	2
109	Metal-organic-framework derived Co-Pd bond is preferred over Fe-Pd for reductive upgrading of furfural to tetrahydrofurfuryl alcohol. <i>Dalton Transactions</i> , 2019 , 48, 8791-8802	4.3	15
108	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20752-20761	9.5	14
107	MXene based self-assembled cathode and antifouling separator for high-rate and dendrite-inhibited LIB battery. <i>Nano Energy</i> , 2019 , 61, 478-485	17.1	85
106	Redox-Triggered Buoyancy and Size Modulation of a Dynamic Covalent Gel. <i>Chemistry of Materials</i> , 2019 , 31, 4148-4155	9.6	6
105	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	8.6	13
104	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	9.6	40
103	Performance and Stability Improvement of Layered NCM Lithium-Ion Batteries at High Voltage by a Microporous AlO Sol-Gel Coating. <i>ACS Omega</i> , 2019 , 4, 13972-13980	3.9	37
102	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,	8.8	37
101	Cyclodextrin polymer networks decorated with subnanometer metal nanoparticles for high-performance low-temperature catalysis. <i>Science Advances</i> , 2019 , 5, eaax6976	14.3	24
100	A DNA-mimic contact-active functional group for antifouling ultrafiltration membranes. <i>Chemosphere</i> , 2019 , 216, 669-676	8.4	1
99	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018 , 13, 345-350	28.7	106
98	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	9.5	65
97	Graphene oxide /molybdenum disulfide hybrid membranes for hydrogen separation. <i>Journal of Membrane Science</i> , 2018 , 550, 145-154	9.6	25

96	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 836-843	16.7	63
95	Development of ZIF-8 membranes: opportunities and challenges for commercial applications. <i>Current Opinion in Chemical Engineering</i> , 2018 , 20, 78-85	5.4	64
94	Facile synthesis of triazine-triphenylamine-based microporous covalent polymer adsorbent for flue gas CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2018 , 255, 76-83	5.3	42
93	Conversion of CO ₂ from air into formate using amines and phosphorus-nitrogen PN3P-Ru(II) pincer complexes. <i>Green Chemistry</i> , 2018 , 20, 4201-4205	10	37
92	Selective conversion of polystyrene into renewable chemical feedstock under mild conditions. <i>Waste Management</i> , 2018 , 78, 871-879	8.6	11
91	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	13	57
90	Diverse catalytic reactivity of a dearomatized PNP*-nickel hydride pincer complex towards CO reduction. <i>Chemical Communications</i> , 2018 , 54, 11395-11398	5.8	43
89	Chlorine-functionalized keto-enamine-based covalent organic frameworks for CO ₂ separation and capture. <i>CrystEngComm</i> , 2018 , 20, 7621-7625	3.3	16
88	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	9.5	19
87	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	5.6	6
86	Cobalt-Catalyzed Selective Hydrogenation of Nitriles to Secondary Imines. <i>Organic Letters</i> , 2018 , 20, 6430-6435	6.2	36
85	Crystalline 2D Covalent Organic Framework Membranes for High-Flux Organic Solvent Nanofiltration. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14342-14349	16.4	198
84	Dual-Function Conductive Copper Hollow Fibers for Microfiltration and Anti-biofouling in Electrochemical Membrane Bioreactors. <i>Frontiers in Chemistry</i> , 2018 , 6, 445	5	8
83	A Pseudodearomatized PNP*Ni-H Complex as a Ligand and Nucleophilic Catalyst. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14969-14977	4.2	18
82	Efficient electrochemical transformation of CO to C ₂ C ₄ chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
81	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	15.6	80
80	Giant enhancement of superconductivity in arrays of ultrathin gallium and zinc sub-nanowires embedded in zeolite. <i>Materials Today Physics</i> , 2018 , 6, 38-44	8	1
79	Single-Site Ruthenium Pincer Complex Knitted into Porous Organic Polymers for Dehydrogenation of Formic Acid. <i>ChemSusChem</i> , 2018 , 11, 3591-3598	8.3	28

78	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	5.6	17
77	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. <i>Advanced Materials</i> , 2017 , 29, 1605826	24	28
76	Fabrication and molecular transport studies of highly c-Oriented AFI membranes. <i>Journal of Membrane Science</i> , 2017 , 528, 46-54	9.6	17
75	Observation of high T _c one dimensional superconductivity in 4 angstrom carbon nanotube arrays. <i>AIP Advances</i> , 2017 , 7, 025305	1.5	8
74	Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , 2017 , 16, 532-536	27	207
73	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	4.3	6
72	Exfoliation of two-dimensional zeolites in liquid polybutadienes. <i>Chemical Communications</i> , 2017 , 53, 7011-7014	5.8	19
71	Selective Catalytic Hydrogenation of Arenols by a Well-Defined Complex of Ruthenium and Phosphorus-Nitrogen PN ₃ Pincer Ligand Containing a Phenanthroline Backbone. <i>ACS Catalysis</i> , 2017 , 7, 4446-4450	13.1	39
70	Renewable aromatics from the degradation of polystyrene under mild conditions. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 983-989	4.3	21
69	Spatially isolated palladium in porous organic polymers by direct knitting for versatile organic transformations. <i>Journal of Catalysis</i> , 2017 , 355, 101-109	7.3	25
68	Metal-Organic Framework-Based Separators for Enhancing Li ⁺ Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017 , 2, 2362-2367	20.1	160
67	Osmotic Heat Engine Using Thermally Responsive Ionic Liquids. <i>Environmental Science & Technology</i> , 2017 , 51, 9403-9409	10.3	15
66	Sorption Hysteresis of Light Hydrocarbons and Carbon Dioxide in Shale and Kerogen. <i>Scientific Reports</i> , 2017 , 7, 16209	4.9	48
65	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	9.6	6
64	Selective separation of oil and water with mesh membranes by capillarity. <i>Advances in Colloid and Interface Science</i> , 2016 , 235, 46-55	14.3	54
63	Highly stable porous covalent triazine-piperazine linked nanoflower as a feasible adsorbent for flue gas CO ₂ capture. <i>Chemical Engineering Science</i> , 2016 , 145, 21-30	4.4	21
62	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, 4439-47	10.3	77
61	Using UCST Ionic Liquid as a Draw Solute in Forward Osmosis to Treat High-Salinity Water. <i>Environmental Science & Technology</i> , 2016 , 50, 1039-45	10.3	72

60	ZIF-8 membranes with improved reproducibility fabricated from sputter-coated ZnO/alumina supports. <i>Chemical Engineering Science</i> , 2016 , 141, 119-124	4.4	49
59	Automated process flowsheet synthesis for membrane processes using genetic algorithm: role of crossover operators. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1201-1206	0.6	1
58	Selective Hydrogen Generation from Formic Acid with Well-Defined Complexes of Ruthenium and Phosphorus-Nitrogen PN(3) -Pincer Ligand. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1357-60	4.5	77
57	Diffusion as a function of guest molecule length and functionalization in flexible metal-organic frameworks. <i>Materials Horizons</i> , 2016 , 3, 355-361	14.4	11
56	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	6.7	8
55	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	8.3	14
54	A rationally designed amino-borane complex in a metal organic framework: a novel reusable hydrogen storage and size-selective reduction material. <i>Chemical Communications</i> , 2015 , 51, 7610-3	5.8	38
53	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	9.6	70
52	Attainability and minimum energy of multiple-stage cascade membrane systems. <i>Journal of Membrane Science</i> , 2015 , 495, 284-293	9.6	5
51	One-Pot Synthesis of N-(Peroxyl)Indole/Carbazole via Chemoselective Three-Component Condensation Reaction in Open Atmosphere. <i>Organic Letters</i> , 2015 , 17, 5630-3	6.2	13
50	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	9.6	301
49	Cu-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	1.3	4
48	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, 12833-41	10.3	151
47	Room temperature hydrogen generation from hydrolysis of ammonia-borane over an efficient NiAgPd/C catalyst. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20031-20037	6.7	25
46	Hydrogenation of Esters Catalyzed by Ruthenium PN ₃ -Pincer Complexes Containing an Aminophosphine Arm. <i>Organometallics</i> , 2014 , 33, 4152-4155	3.8	69
45	Attainability and minimum energy of single-stage membrane and membrane/distillation hybrid processes. <i>Journal of Membrane Science</i> , 2014 , 472, 272-280	9.6	10
44	Molecular dynamics simulations on gate opening in ZIF-8: identification of factors for ethane and propane separation. <i>Langmuir</i> , 2013 , 29, 8865-72	4	64
43	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	13	60

42	Layer-dependent supercapacitance of graphene films grown by chemical vapor deposition on nickel foam. <i>Journal of Power Sources</i> , 2013 , 225, 251-256	8.9	36
41	An air-stable copper reagent for nucleophilic trifluoromethylthiolation of aryl halides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1548-52	16.4	261
40	Membrane Systems Engineering for Post-combustion Carbon Capture. <i>Energy Procedia</i> , 2013 , 37, 976-985	5.3	12
39	Analysis of hollow fibre membrane systems for multicomponent gas separation. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 332-347	5.5	36
38	Carbon dioxide selective mixed matrix composite membrane containing ZIF-7 nano-fillers. <i>Journal of Membrane Science</i> , 2013 , 425-426, 235-242	9.6	340
37	Fixed-Bed Adsorption Separation Of Xylene Isomers over SiO ₂ /Silicallite-1 Core-Shell Adsorbents. <i>Chemical Engineering Research Bulletin</i> , 2013 , 16,	0	7
36	Effective separation of propylene/propane binary mixtures by ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2012 , 390-391, 93-98	9.6	303
35	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	9.6	19
34	Enhanced binding affinity, remarkable selectivity, and high capacity of CO ₂ by dual functionalization of a rht-type metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1412-5	16.4	398
33	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, 15940-3	4.8	33
32	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	3.8	107
31	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	9.6	166
30	Modeling and parametric analysis of hollow fiber membrane system for carbon capture from multicomponent flue gas. <i>AIChE Journal</i> , 2012 , 58, 1550-1561	3.6	26
29	Enhanced visible-light activity of titania via confinement inside carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14896-9	16.4	91
28	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. <i>CrystEngComm</i> , 2011 , 13, 6937	3.3	295
27	Sharp separation of C ₂ /C ₃ hydrocarbon mixtures by zeolitic imidazolate framework-8 (ZIF-8) membranes synthesized in aqueous solutions. <i>Chemical Communications</i> , 2011 , 47, 10275-7	5.8	273
26	Rapid synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals in an aqueous system. <i>Chemical Communications</i> , 2011 , 47, 2071-3	5.8	1005
25	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	9.6	168

24	Adsorption Properties of the SAPO-5 Molecular Sieve. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3286-3289	2.8	11
23	Synthesis of Ni ₃ SiO ₂ /Silicalite-1 Core-Shell Micromembrane Reactors and Their Reaction/Diffusion Performance. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 12423-12428	3.9	10
22	Synthesis and characterization of ZIF-69 membranes and separation for CO ₂ /CO mixture. <i>Journal of Membrane Science</i> , 2010 , 353, 36-40	9.6	214
21	Preparation of metal oxide/zeolite core-shell nanostructures. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 210-217	5.3	23
20	Synthesis of continuous MOF-5 membranes on porous alumina substrates. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 296-301	5.3	298
19	Fabrication of MOF-5 membranes using microwave-induced rapid seeding and solvothermal secondary growth. <i>Microporous and Mesoporous Materials</i> , 2009 , 123, 100-106	5.3	262
18	Synthesis of highly c-oriented AFI membranes by epitaxial growth. <i>Microporous and Mesoporous Materials</i> , 2009 , 126, 81-86	5.3	21
17	Fabrication and gas separation properties of polybenzimidazole (PBI)/nanoporous silicates hybrid membranes. <i>Journal of Membrane Science</i> , 2008 , 316, 145-152	9.6	64
16	Removal of trivalent chromium contaminant from aqueous media using FAU-type zeolite membranes. <i>Journal of Membrane Science</i> , 2008 , 312, 163-173	9.6	37
15	Layer-by-Layer Deposition of Barrier and Permselective c-Oriented-MCM-22/Silica Composite Films. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7096-7106	3.9	28
14	Uniformly a-oriented MFI zeolite films by secondary growth. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1154-8	16.4	122
13	Uniformly a-Oriented MFI Zeolite Films by Secondary Growth. <i>Angewandte Chemie</i> , 2006 , 118, 1172-1176	5.6	36
12	Preparation of b-Oriented MFI Films on Porous Stainless Steel Substrates. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 9086-9095	3.9	46
11	Strain of MFI crystals in membranes: An in situ synchrotron X-ray study. <i>Microporous and Mesoporous Materials</i> , 2005 , 84, 332-337	5.3	34
10	Siliceous ZSM-5 Membranes by Secondary Growth of b-Oriented Seed Layers. <i>Advanced Functional Materials</i> , 2004 , 14, 716-729	15.6	216
9	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	5.3	26
8	Gas and Organic Vapor Permeation through b-Oriented MFI Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3000-3007	3.9	92
7	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	1.8	3

6	Microstructural optimization of a zeolite membrane for organic vapor separation. <i>Science</i> , 2003 , 300, 456-60	33.3	863
5	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	5.3	96
4	Separation of Xylene Isomer Vapors with Oriented MFI Membranes Made by Seeded Growth. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 544-552	3.9	200
3	Flexible Ionic Conjugated Microporous Polymer Membranes for Fast and Selective Ion Transport. <i>Advanced Functional Materials</i> , 2108672	15.6	4
2	Selective Conversion of Carbon Dioxide to Formate with High Current Densities. <i>Journal of Molecular and Engineering Materials</i> , 2150001	1.3	
1	Formic Acid to Power towards Low-Carbon Economy. <i>Advanced Energy Materials</i> , 2103799	21.8	10