

Jerry Lin

List of Publications by Year in descending order

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445
papers

25,066
citations

4641

85
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14156

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455
all docs

455
docs citations

455
times ranked

17263
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed ionic-electronic conducting (MIEC) ceramic-based membranes for oxygen separation. Journal of Membrane Science, 2008, 320, 13-41.	4.1	1,006
2	Adsorption of CO ₂ , CH ₄ , N ₂ O, and N ₂ on MOF-5, MOF-177, and Zeolite 5A. Environmental Science & Technology, 2010, 44, 1820-1826.	4.6	689
3	Adsorption of CO ₂ and CH ₄ on a magnesium-based metal organic framework. Journal of Colloid and Interface Science, 2011, 353, 549-556.	5.0	426
4	Tailoring Pore Properties of MCM-48 Silica for Selective Adsorption of CO ₂ . Journal of Physical Chemistry B, 2005, 109, 6287-6293.	1.2	304
5	Adsorption and Diffusion of Carbon Dioxide on Metal-Organic Framework (MOF-5). Industrial & Engineering Chemistry Research, 2009, 48, 10015-10020.	1.8	294
6	Microporous and dense inorganic membranes: current status and prospective. Separation and Purification Technology, 2001, 25, 39-55.	3.9	291
7	Gas transport properties and propylene/propane separation characteristics of ZIF-8 membranes. Journal of Membrane Science, 2014, 451, 85-93.	4.1	251
8	MICROPOROUS INORGANIC MEMBRANES. Separation and Purification Reviews, 2002, 31, 229-379.	0.8	241
9	Template-removal-associated microstructural development of porous-ceramic-supported MFI zeolite membranes. Microporous and Mesoporous Materials, 2000, 34, 241-253.	2.2	230
10	Mechanism of High-Temperature CO ₂ Sorption on Lithium Zirconate. Environmental Science & Technology, 2003, 37, 1999-2004.	4.6	226
11	Molecular Sieving MFI-Type Zeolite Membranes for Pervaporation Separation of Xylene Isomers. Journal of the American Chemical Society, 2004, 126, 4776-4777.	6.6	222
12	Perovskite-type ceramic membrane: synthesis, oxygen permeation and membrane reactor performance for oxidative coupling of methane. Journal of Membrane Science, 1998, 150, 87-98.	4.1	216
13	Stability of ZIF-8 membranes and crystalline powders in water at room temperature. Journal of Membrane Science, 2015, 485, 103-111.	4.1	206
14	Kinetics of carbon dioxide sorption on potassium-doped lithium zirconate. Chemical Engineering Science, 2003, 58, 4377-4385.	1.9	199
15	Gas permeation through DDR-type zeolite membranes at high temperatures. AIChE Journal, 2008, 54, 1478-1486.	1.8	194
16	Ordered mesoporous and macroporous inorganic films and membranes. Journal of Membrane Science, 2004, 235, 53-72.	4.1	190
17	Ammonia adsorption and its effects on framework stability of MOF-5 and MOF-177. Journal of Colloid and Interface Science, 2010, 348, 615-620.	5.0	182
18	A comparative study on thermal and hydrothermal stability of alumina, titania and zirconia membranes. Journal of Membrane Science, 1994, 91, 27-45.	4.1	173

#	ARTICLE	IF	CITATIONS
19	Synthesis of an organophilic ZIF-71 membrane for pervaporation solvent separation. <i>Chemical Communications</i> , 2013, 49, 1196.	2.2	170
20	Molecular sieves for gas separation. <i>Science</i> , 2016, 353, 121-122.	6.0	168
21	Gas Separation Properties of Metal Organic Framework (MOF-5) Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1102-1108.	1.8	165
22	Preparation and Characterization of High-Temperature Thermally Stable Alumina Composite Membrane. <i>Journal of the American Ceramic Society</i> , 1991, 74, 219-224.	1.9	164
23	Stability of ZIF-8 in water under ambient conditions. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 201-210.	2.2	164
24	Synthesis and hydrogen permeation properties of ultrathin palladium-silver alloy membranes. <i>Journal of Membrane Science</i> , 1995, 104, 251-262.	4.1	163
25	Synthesis and properties of A-type zeolite membranes by secondary growth method with vacuum seeding. <i>Journal of Membrane Science</i> , 2004, 245, 41-51.	4.1	162
26	Synthesis and CO ₂ sorption properties of pure and modified lithium zirconate. <i>Separation and Purification Technology</i> , 2004, 36, 41-51.	3.9	159
27	Kinetics of ZIF-8 Thermal Decomposition in Inert, Oxidizing, and Reducing Environments. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14015-14026.	1.5	158
28	Chemical Stability and Its Improvement of Palladium-Based Metallic Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6920-6930.	1.8	157
29	Fine pore engineering in a series of isorecticular metal-organic frameworks for efficient C ₂ H ₂ /CO ₂ separation. <i>Nature Communications</i> , 2022, 13, 200.	5.8	157
30	Optimizing Pore Space for Flexible-Robust Metal-Organic Framework to Boost Trace Acetylene Removal. <i>Journal of the American Chemical Society</i> , 2020, 142, 9744-9751.	6.6	154
31	Carbonate-ceramic dual-phase membrane for carbon dioxide separation. <i>Journal of Membrane Science</i> , 2010, 357, 122-129.	4.1	153
32	High Capacity MoO ₂ /Graphite Oxide Composite Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 309-314.	2.1	151
33	Oxygen permeation through thin mixed-conducting solid oxide membranes. <i>AIChE Journal</i> , 1994, 40, 786-798.	1.8	147
34	Seawater desalination performance of MFI type membranes made by secondary growth. <i>Separation and Purification Technology</i> , 2009, 68, 343-350.	3.9	145
35	Tubular lanthanum cobaltite perovskite-type membrane reactors for partial oxidation of methane to syngas. <i>Journal of Membrane Science</i> , 2000, 166, 13-22.	4.1	142
36	Template-free secondary growth synthesis of MFI type zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2001, 43, 319-327.	2.2	138

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37	Adsorption equilibrium and kinetics of fluoride on sol-gel-derived activated alumina adsorbents. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 307-313.	5.0	138
38	Novel molecular sieve silica (MSS) membranes: characterisation and permeation of single-step and two-step sol-gel membranes. <i>Journal of Membrane Science</i> , 2002, 198, 9-21.	4.1	134
39	Synthesis of zeolitic imidazolate framework-78 molecular-sieve membrane: defect formation and elimination. <i>Journal of Materials Chemistry</i> , 2012, 22, 19222.	6.7	134
40	Bismuth oxide: a new lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12123.	5.2	132
41	Dual-Phase Metal-Carbonate Membrane for High-Temperature Carbon Dioxide Separation. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7999-8006.	1.8	131
42	Fabrication of ultrathin metallic membranes on ceramic supports by sputter deposition. <i>Journal of Membrane Science</i> , 1995, 99, 89-100.	4.1	128
43	Adsorption of oils from pure liquid and oil-water emulsion on hydrophobic silica aerogels. <i>Separation and Purification Technology</i> , 2012, 99, 28-35.	3.9	128
44	Electrical conduction and hydrogen permeation through mixed proton-electron conducting strontium cerate membranes. <i>Solid State Ionics</i> , 2000, 130, 149-156.	1.3	126
45	Fabrication of a thin palladium membrane supported in a porous ceramic substrate by chemical vapor deposition. <i>Journal of Membrane Science</i> , 1996, 120, 261-272.	4.1	125
46	Synthesis, characterization and gas transport properties of MOF-5 membranes. <i>Journal of Membrane Science</i> , 2011, 382, 82-90.	4.1	123
47	Performance of ionic-conducting ceramic/carbonate composite material as solid oxide fuel cell electrolyte and CO ₂ permeation membrane. <i>Catalysis Today</i> , 2009, 148, 303-309.	2.2	122
48	A highly permeable and selective amino-functionalized MOF CAU-1 membrane for CO ₂ /N ₂ separation. <i>Chemical Communications</i> , 2014, 50, 3699-3701.	2.2	122
49	Structural and surface chemical properties of sol-gel derived TiO ₂ -ZrO ₂ oxides. <i>Applied Catalysis A: General</i> , 2004, 265, 35-42.	2.2	119
50	Experimental studies on pore size change of porous ceramic membranes after modification. <i>Journal of Membrane Science</i> , 1993, 79, 65-82.	4.1	118
51	Electroless plating synthesis, characterization and permeation properties of Pd-Cu membranes supported on ZrO modified porous stainless steel. <i>Journal of Membrane Science</i> , 2005, 265, 142-152.	4.1	116
52	Fabrication of thin metallic membranes by MOCVD and sputtering. <i>Journal of Membrane Science</i> , 1997, 133, 217-230.	4.1	112
53	Polycrystalline MFI zeolite membranes: xylene pervaporation and its implication on membrane microstructure. <i>Journal of Membrane Science</i> , 1999, 158, 17-27.	4.1	111
54	Methane decomposition to carbon nanotubes and hydrogen on an alumina supported nickel aerogel catalyst. <i>Catalysis Today</i> , 2002, 74, 145-155.	2.2	110

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55	Recent progress in polycrystalline zeolite membrane research. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 209-216.	3.8	109
56	Exploiting equilibrium-kinetic synergetic effect for separation of ethylene and ethane in a microporous metal-organic framework. <i>Science Advances</i> , 2020, 6, eaaz4322.	4.7	107
57	Multicomponent hydrogen/hydrocarbon separation by MFI-type zeolite membranes. <i>AICHE Journal</i> , 2000, 46, 1957-1966.	1.8	105
58	Selective oxidation of ethane to ethylene in a dense tubular membrane reactor. <i>Journal of Membrane Science</i> , 2002, 209, 457-467.	4.1	104
59	Microporous Silica and Zeolite Membranes for Hydrogen Purification. <i>MRS Bulletin</i> , 2006, 31, 756-764.	1.7	104
60	Biodiesel Production from <i>Jatropha Curcas</i> , Waste Cooking, and <i>Camelina Sativa</i> Oils. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10850-10856.	1.8	102
61	Modeling and analysis of carbon dioxide permeation through ceramic-carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , 2009, 345, 110-118.	4.1	101
62	Microwave-Assisted Catalytic Transesterification of <i>Camelina Sativa</i> Oil. <i>Energy & Fuels</i> , 2010, 24, 1298-1304.	2.5	100
63	CVD synthesis and gas permeation properties of thin palladium/alumina membranes. <i>AICHE Journal</i> , 1998, 44, 174-183.	1.8	98
64	Improvement of Thermal Stability of Porous Nanostructured Ceramic Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 860-870.	1.8	97
65	Hydrothermal stability of pure and modified microporous silica membranes. <i>Journal of Materials Science</i> , 1995, 30, 2803-2808.	1.7	95
66	High-Temperature Sorption Process for Air Separation and Oxygen Removal. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2775-2784.	1.8	95
67	Synthesis and hydrogen permeation properties of asymmetric proton-conducting ceramic membranes. <i>Solid State Ionics</i> , 2005, 176, 2653-2662.	1.3	95
68	Adsorption Equilibria and Kinetics of Carbon Monoxide on Zeolite 5A, 13X, MOF-5, and MOF-177. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2245-2250.	1.0	95
69	Hydrolysis and condensation of ZIF-8 in water. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109568.	2.2	95
70	Catalytic Properties of Oxygen Semipermeable Perovskite-Type Ceramic Membrane Materials for Oxidative Coupling of Methane. <i>Journal of Catalysis</i> , 1996, 164, 220-231.	3.1	94
71	Composition control and hydrogen permeation characteristics of sputter deposited palladium-silver membranes. <i>Journal of Membrane Science</i> , 1999, 161, 67-76.	4.1	94
72	Vertically aligned carbon nanotube membranes on macroporous alumina supports. <i>Journal of Membrane Science</i> , 2007, 304, 1-7.	4.1	94

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73	Transesterification of Camelina Sativa Oil Using Heterogeneous Metal Oxide Catalysts. Energy & Fuels, 2009, 23, 4619-4624.	2.5	94
74	Gas Permeation and Diffusion Characteristics of MFI-Type Zeolite Membranes at High Temperatures. Journal of Physical Chemistry C, 2009, 113, 3767-3774.	1.5	94
75	Enhanced Cr(VI) removal by polyethylenimine- and phosphorus-codoped hierarchical porous carbons. Journal of Colloid and Interface Science, 2018, 523, 110-120.	5.0	94
76	CO2 adsorption performance for amine grafted particulate silica aerogels. Chemical Engineering Journal, 2014, 254, 190-197.	6.6	93
77	Oxygen permeation through oxygen ionic or mixed-conducting ceramic membranes with chemical reactions. Journal of Membrane Science, 2004, 231, 133-146.	4.1	91
78	Gamma-Alumina Supported Carbon Molecular Sieve Membrane for Propylene/Propane Separation. Industrial & Engineering Chemistry Research, 2013, 52, 4297-4305.	1.8	91
79	Comparison of Oxygen Permeability and Stability of Perovskite Type La _{0.2} A _{0.8} Co _{0.2} Fe _{0.8} O _{3-δ} (A = Sr, Ba). Journal of Membrane Science, 2011, 390, 1-14.	1.8	90
80	Ionic conducting ceramic and carbonate dual phase membranes for carbon dioxide separation. Journal of Membrane Science, 2012, 417-418, 174-182.	4.1	90
81	Metal organic framework membranes for separation applications. Current Opinion in Chemical Engineering, 2015, 8, 21-28.	3.8	90
82	Analysis of oxidative coupling of methane in dense oxide membrane reactors. Journal of Membrane Science, 1995, 103, 219-233.	4.1	89
83	Hydrothermal liquefaction of Cyanidioschyzon merolae and the influence of catalysts on products. Bioresource Technology, 2017, 223, 91-97.	4.8	89
84	Selective CO2 capture in an imine linked porphyrin porous polymer. Polymer Chemistry, 2013, 4, 4566.	1.9	88
85	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. Journal of Membrane Science, 2014, 453, 126-135.	4.1	88
86	Nano-structured Pd-long period fiber gratings integrated optical sensor for hydrogen detection. Sensors and Actuators B: Chemical, 2008, 134, 687-693.	4.0	86
87	Microporous inorganic membranes for high temperature hydrogen purification. Journal of Applied Physics, 2008, 104, .	1.1	86
88	Hydrogen adsorption equilibrium and kinetics in metal-organic framework (MOF-5) synthesized with DEF approach. Separation and Purification Technology, 2009, 64, 280-287.	3.9	86
89	CO2 capture using particulate silica aerogel immobilized with tetraethylenepentamine. Microporous and Mesoporous Materials, 2013, 176, 123-131.	2.2	86
90	Template-free synthesis of MFI-type zeolite membranes: Permeation characteristics and thermal stability improvement of membrane structure. Journal of Membrane Science, 2006, 286, 213-222.	4.1	85

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91	Synthesis of b-Oriented TS-1 Films on Chitosan-Modified γ -Al ₂ O ₃ Substrates. <i>Advanced Materials</i> , 2006, 18, 3261-3265.	11.1	85
92	Ultrathin carbon molecular sieve membrane for propylene/propane separation. <i>AIChE Journal</i> , 2016, 62, 491-499.	1.8	85
93	Silver Nanoparticles from Ultrasonic Spray Pyrolysis of Aqueous Silver Nitrate. <i>Aerosol Science and Technology</i> , 2005, 39, 1010-1014.	1.5	84
94	Synthesis and modification of ZSM-5/silicalite bilayer membrane with improved hydrogen separation performance. <i>Journal of Membrane Science</i> , 2012, 396, 128-137.	4.1	84
95	Highly stable bilayer MFI zeolite membranes for high temperature hydrogen separation. <i>Journal of Membrane Science</i> , 2014, 450, 425-432.	4.1	84
96	Thermal stability and its improvement of the alumina membrane top-layers prepared by sol-gel methods. <i>Journal of Materials Science</i> , 1991, 26, 715-720.	1.7	82
97	Sol-gel synthesis and characterization of yttria stabilized zirconia membranes. <i>Journal of Membrane Science</i> , 1998, 139, 75-83.	4.1	81
98	In Situ Synthesis of P-Type Zeolite Membranes on Porous γ -Alumina Supports. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 2404-2409.	1.8	81
99	Synthesis and oxygen permeation properties of ceramic-metal dual-phase membranes. <i>Journal of Membrane Science</i> , 2000, 167, 123-133.	4.1	81
100	Removal of emulsified oil from water by inverse fluidization of hydrophobic aerogels. <i>Powder Technology</i> , 2010, 203, 298-309.	2.1	81
101	Hydrogenative Ring-Rearrangement of Biobased Furanic Aldehydes to Cyclopentanone Compounds over Pd/Pyrochlore by Introducing Oxygen Vacancies. <i>ACS Catalysis</i> , 2020, 10, 7355-7366.	5.5	81
102	Hydrogen adsorption on metal-organic framework (MOF-5) synthesized by DMF approach. <i>Journal of Porous Materials</i> , 2009, 16, 141-149.	1.3	79
103	Nanostructured thin palladium-silver membranes: Effects of grain size on gas permeation properties. <i>Journal of Materials Science</i> , 2001, 36, 3221-3227.	1.7	77
104	Oxidative coupling of methane in dense ceramic membrane reactor with high yields. <i>AIChE Journal</i> , 2002, 48, 2298-2306.	1.8	77
105	High-Temperature Stability of Palladium Membranes on Porous Metal Supports with Different Intermediate Layers. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1880-1886.	1.8	77
106	High performance BaBiScCo hollow fibre membranes for oxygen transport. <i>Energy and Environmental Science</i> , 2011, 4, 2516.	15.6	77
107	Membranes for helium recovery: An overview on the context, materials and future directions. <i>Separation and Purification Technology</i> , 2017, 176, 335-383.	3.9	77
108	Synthesis of submicron polycrystalline MFI zeolite films on porous ceramic supports. <i>Journal of Membrane Science</i> , 1998, 148, 233-241.	4.1	75

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109	Thermal stability of ZIF-8 membranes for gas separations. <i>Journal of Membrane Science</i> , 2017, 532, 9-19.	4.1	75
110	Ultrafast Semi-Solid Processing of Highly Durable ZIF-8 Membranes for Propylene/Propane Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21909-21914.	7.2	75
111	Catalyst impregnation and ethylene polymerization with mesoporous particle supported nickel-diimine catalyst. <i>Polymer</i> , 2003, 44, 969-980.	1.8	73
112	Adsorption Equilibria of CO ₂ , CH ₄ , N ₂ , O ₂ , and Ar on High Silica Zeolites. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4017-4023.	1.0	73
113	Electric Transport and Oxygen Permeation Properties of Lanthanum Cobaltite Membranes Synthesized by Different Methods. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 646-653.	1.8	72
114	CVD of solid oxides in porous substrates for ceramic membrane modification. <i>AIChE Journal</i> , 1992, 38, 445-454.	1.8	70
115	Ceramic-glass composite high temperature seals for dense ionic-conducting ceramic membranes. <i>Journal of Membrane Science</i> , 2001, 193, 185-193.	4.1	69
116	Exposing the Molecular Sieving Architecture of Amorphous Silica Using Positron Annihilation Spectroscopy. <i>Advanced Functional Materials</i> , 2008, 18, 3818-3826.	7.8	69
117	A New Approach Towards Acid Catalysts with High Reactivity Based on Graphene Nanosheets. <i>ChemCatChem</i> , 2014, 6, 2354-2363.	1.8	69
118	Metal-organic framework membrane process for high purity CO ₂ production. <i>AIChE Journal</i> , 2016, 62, 3836-3841.	1.8	68
119	Sol-Gel Synthesis of Pure and Copper Oxide Coated Mesoporous Alumina Granular Particles. <i>Journal of Catalysis</i> , 1998, 174, 43-51.	3.1	67
120	Tubular lanthanum cobaltite perovskite type membrane for oxygen permeation. <i>Journal of Membrane Science</i> , 2000, 166, 51-61.	4.1	67
121	Oxygen Permeation and Oxidative Coupling of Methane in Ytria Doped Bismuth Oxide Membrane Reactor. <i>Journal of Catalysis</i> , 2000, 193, 58-64.	3.1	67
122	An asymmetric tubular ceramic-carbonate dual phase membrane for high temperature CO ₂ separation. <i>Chemical Communications</i> , 2013, 49, 9654.	2.2	67
123	Gas permeation and separation properties of large-sheet stacked graphene oxide membranes. <i>Journal of Membrane Science</i> , 2018, 550, 238-245.	4.1	67
124	Sol-gel-derived mesoporous γ -alumina granules. <i>Microporous and Mesoporous Materials</i> , 1999, 30, 359-369.	2.2	66
125	Adsorption Equilibrium and Kinetics of Microorganisms on Single-Wall Carbon Nanotubes. <i>IEEE Sensors Journal</i> , 2008, 8, 954-962.	2.4	66
126	Synthesis and characterization of thin ceramic-carbonate dual-phase membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , 2013, 444, 402-411.	4.1	66

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127	Improving hydrostability of ZIF-8 membranes via surface ligand exchange. <i>Journal of Membrane Science</i> , 2017, 532, 1-8.	4.1	66
128	Evolution of Pore and Phase Structure of Sol-Gel Derived Lanthana Doped Titania at High Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 1189-1195.	1.8	64
129	Pure and doped CeO ₂ thin films prepared by MOCVD process. <i>Thin Solid Films</i> , 1998, 324, 89-93.	0.8	64
130	Power dissipation in microwave-enhanced in situ transesterification of algal biomass to biodiesel. <i>Green Chemistry</i> , 2012, 14, 809.	4.6	64
131	Effects of support pore structure on carbon dioxide permeation of ceramic-carbonate dual-phase membranes. <i>Chemical Engineering Science</i> , 2013, 104, 891-898.	1.9	64
132	Fast synthesis of temperature-sensitive PNIPAAm hydrogels by microwave irradiation. <i>European Polymer Journal</i> , 2008, 44, 1217-1224.	2.6	63
133	Crossflow filtration of chromium hydroxide suspension by ceramic membranes: fouling and its minimization by backpulsing. <i>Journal of Membrane Science</i> , 2000, 174, 111-122.	4.1	62
134	Effects of Water Vapor and Trace Gas Impurities in Flue Gas on CO ₂ /N ₂ Separation Using ZIF-68. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6744-6751.	1.5	61
135	ZIF-8 Membrane Ethylene/Ethane Transport Characteristics in Single and Binary Gas Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7567-7575.	1.8	61
136	An Efficient and Reusable Embedded Ru Catalyst for the Hydrogenolysis of Levulinic Acid to γ -Valerolactone. <i>ChemSusChem</i> , 2017, 10, 1720-1732.	3.6	60
137	Sulfur Dioxide Sorption Properties and Thermal Stability of Hydrophobic Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 4063-4070.	1.8	59
138	Adsorption and diffusion of carbon dioxide on ZIF-68. <i>Chemical Engineering Science</i> , 2014, 118, 32-40.	1.9	59
139	Propylene/Propane Mixture Separation Characteristics and Stability of Carbon Molecular Sieve Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9824-9831.	1.8	59
140	Electrical conducting properties of proton-conducting terbium-doped strontium cerate membrane. <i>Solid State Ionics</i> , 1999, 120, 85-93.	1.3	58
141	Synthesis and characterisation of MFI-type zeolites supported on carbon materials. <i>Microporous and Mesoporous Materials</i> , 2001, 42, 255-268.	2.2	58
142	Thermal stability improvement on pore and phase structure of sol-gel derived zirconia. <i>Journal of Materials Science</i> , 1995, 30, 3075-3081.	1.7	57
143	Swelling/deswelling kinetics of PNIPAAm hydrogels synthesized by microwave irradiation. <i>Chemical Engineering Journal</i> , 2008, 142, 263-270.	6.6	57
144	Hydrogen permeation through terbium doped strontium cerate membranes enabled by presence of reducing gas in the downstream. <i>Journal of Membrane Science</i> , 2009, 345, 201-206.	4.1	57

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145	Exploiting Synergistic Effects of Intermolecular Interactions To Synthesize Hybrid Rejuvenators To Revitalize Aged Asphalt. ACS Sustainable Chemistry and Engineering, 2019, 7, 15514-15525.	3.2	57
146	Morphological and mechanical properties of nascent polyethylene fibers produced via ethylene extrusion polymerization with a metallocene catalyst supported on MCM-41 particles. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2433-2443.	2.4	56
147	Granulation of sol-gel-derived nanostructured alumina. AIChE Journal, 1997, 43, 505-514.	1.8	55
148	Nanocomposite Silicalite-1/Polydimethylsiloxane Membranes for Pervaporation of Ethanol from Dilute Aqueous Solutions. Industrial & Engineering Chemistry Research, 2013, 52, 5207-5212.	1.8	55
149	Carbon dioxide permeation properties and stability of samarium-doped-ceria carbonate dual-phase membranes. Journal of Membrane Science, 2014, 467, 244-252.	4.1	55
150	Effect of Zirconium Doping on Hydrogen Permeation through Strontium Cerate Membranes. Industrial & Engineering Chemistry Research, 2010, 49, 2768-2774.	1.8	54
151	Co-liquefaction of mixed culture microalgal strains under sub-critical water conditions. Bioresource Technology, 2017, 236, 129-137.	4.8	54
152	Synthesis of graphene oxide membranes on polyester substrate by spray coating for gas separation. Chemical Engineering Science, 2018, 190, 312-319.	1.9	54
153	Self-Assembled Monolayer of Metal Oxide Nanosheet and Structure and Gas-Sensing Property Relationship. ACS Sensors, 2019, 4, 1279-1290.	4.0	53
154	Synergistic binding sites in a hybrid ultramicroporous material for one-step ethylene purification from ternary C ₂ hydrocarbon mixtures. Science Advances, 2022, 8, .	4.7	53
155	High and selective CO ₂ adsorption by a phthalocyanine nanoporous polymer. Journal of Materials Chemistry A, 2015, 3, 10284-10288.	5.2	52
156	Adsorption Configuration-Determined Selective Hydrogenative Ring Opening and Ring Rearrangement of Furfural over Metal Phosphate. ACS Catalysis, 2021, 11, 6406-6415.	5.5	52
157	A Kinetic Study of the Electrochemical Vapor Deposition of Solid Oxide Electrolyte Films on Porous Substrates. Journal of the Electrochemical Society, 1990, 137, 3960-3966.	1.3	51
158	Modelling and analysis of CVD processes in porous media for ceramic composite preparation. Chemical Engineering Science, 1991, 46, 3067-3080.	1.9	51
159	Inorganic membranes for carbon dioxide and nitrogen separation. Reviews in Chemical Engineering, 2012, 28, .	2.3	51
160	Zeolite coated polypropylene separators with tunable surface properties for lithium-ion batteries. Microporous and Mesoporous Materials, 2016, 226, 406-414.	2.2	51
161	Efficient SO ₂ Removal Using a Microporous Metal-Organic Framework with Molecular Sieving Effect. Industrial & Engineering Chemistry Research, 2020, 59, 874-882.	1.8	51
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