

# Jerry Lin

## List of Publications by Citations

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442  
papers

20,327  
citations

76  
h-index

116  
g-index

455  
ext. papers

22,434  
ext. citations

6.2  
avg, IF

7.34  
L-index

#	Paper	IF	Citations
442	Mixed ionic-electronic conducting (MIEC) ceramic-based membranes for oxygen separation. <i>Journal of Membrane Science</i> , <b>2008</b> , 320, 13-41	9.6	896
441	Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and N <sub>2</sub> on MOF-5, MOF-177, and zeolite 5A. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1820-6	10.3	587
440	Adsorption of CO <sub>2</sub> and CH <sub>4</sub> on a magnesium-based metal organic framework. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 353, 549-56	9.3	357
439	Tailoring pore properties of MCM-48 silica for selective adsorption of CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6287-93	3.4	287
438	Microporous and dense inorganic membranes: current status and prospective. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 39-55	8.3	260
437	Adsorption and Diffusion of Carbon Dioxide on Metal-Organic Framework (MOF-5). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 10015-10020	3.9	251
436	MICROPOROUS INORGANIC MEMBRANES. <i>Separation and Purification Reviews</i> , <b>2002</b> , 31, 229-379		215
435	Mechanism of high-temperature CO <sub>2</sub> sorption on lithium zirconate. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 1999-2004	10.3	209
434	Molecular sieving MFI-type zeolite membranes for pervaporation separation of xylene isomers. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4776-7	16.4	205
433	Gas transport properties and propylene/propane separation characteristics of ZIF-8 membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 451, 85-93	9.6	201
432	Template-removal-associated microstructural development of porous-ceramic-supported MFI zeolite membranes. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 34, 241-253	5.3	200
431	Kinetics of carbon dioxide sorption on potassium-doped lithium zirconate. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 4377-4385	4.4	191
430	Perovskite-type ceramic membrane: synthesis, oxygen permeation and membrane reactor performance for oxidative coupling of methane. <i>Journal of Membrane Science</i> , <b>1998</b> , 150, 87-98	9.6	187
429	Gas permeation through DDR-type zeolite membranes at high temperatures. <i>AIChE Journal</i> , <b>2008</b> , 54, 1478-1486	3.6	179
428	Ordered mesoporous and macroporous inorganic films and membranes. <i>Journal of Membrane Science</i> , <b>2004</b> , 235, 53-72	9.6	156
427	Synthesis and CO <sub>2</sub> sorption properties of pure and modified lithium zirconate. <i>Separation and Purification Technology</i> , <b>2004</b> , 36, 41-51	8.3	153
426	Synthesis of an organophilic ZIF-71 membrane for pervaporation solvent separation. <i>Chemical Communications</i> , <b>2013</b> , 49, 1196-8	5.8	147

425	Chemical Stability and Its Improvement of Palladium-Based Metallic Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 6920-6930	3.9	145
424	Preparation and Characterization of High-Temperature Thermally Stable Alumina Composite Membrane. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 219-224	3.8	144
423	Gas Separation Properties of Metal Organic Framework (MOF-5) Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1102-1108	3.9	143
422	Stability of ZIF-8 membranes and crystalline powders in water at room temperature. <i>Journal of Membrane Science</i> , <b>2015</b> , 485, 103-111	9.6	142
421	Ammonia adsorption and its effects on framework stability of MOF-5 and MOF-177. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 348, 615-20	9.3	142
420	Synthesis and properties of A-type zeolite membranes by secondary growth method with vacuum seeding. <i>Journal of Membrane Science</i> , <b>2004</b> , 245, 41-51	9.6	141
419	A comparative study on thermal and hydrothermal stability of alumina, titania and zirconia membranes. <i>Journal of Membrane Science</i> , <b>1994</b> , 91, 27-45	9.6	140
418	High Capacity MoO <sub>2</sub> /Graphite Oxide Composite Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 309-14	6.4	139
417	Carbonate/ceramic dual-phase membrane for carbon dioxide separation. <i>Journal of Membrane Science</i> , <b>2010</b> , 357, 122-129	9.6	135
416	Seawater desalination performance of MFI type membranes made by secondary growth. <i>Separation and Purification Technology</i> , <b>2009</b> , 68, 343-350	8.3	134
415	Synthesis and hydrogen permeation properties of ultrathin palladium-silver alloy membranes. <i>Journal of Membrane Science</i> , <b>1995</b> , 104, 251-262	9.6	134
414	Oxygen permeation through thin mixed-conducting solid oxide membranes. <i>AIChE Journal</i> , <b>1994</b> , 40, 786-798	3.6	133
413	Template-free secondary growth synthesis of MFI type zeolite membranes. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 43, 319-327	5.3	127
412	Tubular lanthanum cobaltite perovskite-type membrane reactors for partial oxidation of methane to syngas. <i>Journal of Membrane Science</i> , <b>2000</b> , 166, 13-22	9.6	124
411	Novel molecular sieve silica (MSS) membranes: characterisation and permeation of single-step and two-step sol-gel membranes. <i>Journal of Membrane Science</i> , <b>2002</b> , 198, 9-21	9.6	120
410	Adsorption equilibrium and kinetics of fluoride on sol-gel-derived activated alumina adsorbents. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 349, 307-13	9.3	117
409	Synthesis of zeolitic imidazolate framework-78 molecular-sieve membrane: defect formation and elimination. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 19222		114
408	Dual-Phase Metal/Carbonate Membrane for High-Temperature Carbon Dioxide Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 7999-8006	3.9	114

407	Structural and surface chemical properties of sol-gel derived TiO <sub>2</sub> /ZrO <sub>2</sub> oxides. <i>Applied Catalysis A: General</i> , <b>2004</b> , 265, 35-42	5.1	112
406	Fabrication of ultrathin metallic membranes on ceramic supports by sputter deposition. <i>Journal of Membrane Science</i> , <b>1995</b> , 99, 89-100	9.6	110
405	Electrical conduction and hydrogen permeation through mixed proton-electron conducting strontium cerate membranes. <i>Solid State Ionics</i> , <b>2000</b> , 130, 149-156	3.3	109
404	Fabrication of a thin palladium membrane supported in a porous ceramic substrate by chemical vapor deposition. <i>Journal of Membrane Science</i> , <b>1996</b> , 120, 261-272	9.6	109
403	CHEMISTRY. Molecular sieves for gas separation. <i>Science</i> , <b>2016</b> , 353, 121-2	33.3	109
402	Performance of ionic-conducting ceramic/carbonate composite material as solid oxide fuel cell electrolyte and CO <sub>2</sub> permeation membrane. <i>Catalysis Today</i> , <b>2009</b> , 148, 303-309	5.3	106
401	Bismuth Oxide: A New Lithium-Ion Battery Anode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1,	13	104
400	Methane decomposition to carbon nanotubes and hydrogen on an alumina supported nickel aerogel catalyst. <i>Catalysis Today</i> , <b>2002</b> , 74, 145-155	5.3	104
399	Electroless plating synthesis, characterization and permeation properties of Pd/Cu membranes supported on ZrO <sub>2</sub> modified porous stainless steel. <i>Journal of Membrane Science</i> , <b>2005</b> , 265, 142-152	9.6	103
398	Experimental studies on pore size change of porous ceramic membranes after modification. <i>Journal of Membrane Science</i> , <b>1993</b> , 79, 65-82	9.6	103
397	Polycrystalline MFI zeolite membranes: xylene pervaporation and its implication on membrane microstructure. <i>Journal of Membrane Science</i> , <b>1999</b> , 158, 17-27	9.6	102
396	Adsorption of oils from pure liquid and oil/water emulsion on hydrophobic silica aerogels. <i>Separation and Purification Technology</i> , <b>2012</b> , 99, 28-35	8.3	101
395	Synthesis, characterization and gas transport properties of MOF-5 membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 382, 82-90	9.6	100
394	Fabrication of thin metallic membranes by MOCVD and sputtering. <i>Journal of Membrane Science</i> , <b>1997</b> , 133, 217-230	9.6	99
393	Selective oxidation of ethane to ethylene in a dense tubular membrane reactor. <i>Journal of Membrane Science</i> , <b>2002</b> , 209, 457-467	9.6	97
392	Microporous Silica and Zeolite Membranes for Hydrogen Purification. <i>MRS Bulletin</i> , <b>2006</b> , 31, 756-764	3.2	95
391	Kinetics of ZIF-8 Thermal Decomposition in Inert, Oxidizing, and Reducing Environments. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14015-14026	3.8	92
390	Biodiesel Production From Jatropha Curcas, Waste Cooking, and Camelina Sativa Oils. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 10850-10856	3.9	92

389	A highly permeable and selective amino-functionalized MOF CAU-1 membrane for CO <sub>2</sub> -N <sub>2</sub> separation. <i>Chemical Communications</i> , <b>2014</b> , 50, 3699-701	5.8	91
388	Vertically aligned carbon nanotube membranes on macroporous alumina supports. <i>Journal of Membrane Science</i> , <b>2007</b> , 304, 1-7	9.6	90
387	Recent progress in polycrystalline zeolite membrane research. <i>Current Opinion in Chemical Engineering</i> , <b>2013</b> , 2, 209-216	5.4	88
386	Modeling and analysis of carbon dioxide permeation through ceramic-carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 345, 110-118	9.6	88
385	Composition control and hydrogen permeation characteristics of sputter deposited palladium/silver membranes. <i>Journal of Membrane Science</i> , <b>1999</b> , 161, 67-76	9.6	88
384	CVD synthesis and gas permeation properties of thin palladium/alumina membranes. <i>AIChE Journal</i> , <b>1998</b> , 44, 174-183	3.6	87
383	Microwave-Assisted Catalytic Transesterification of Camelina Sativa Oil. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 1298-1304	4.1	86
382	Synthesis and hydrogen permeation properties of asymmetric proton-conducting ceramic membranes. <i>Solid State Ionics</i> , <b>2005</b> , 176, 2653-2662	3.3	86
381	Multicomponent hydrogen/hydrocarbon separation by MFI-type zeolite membranes. <i>AIChE Journal</i> , <b>2000</b> , 46, 1957-1966	3.6	86
380	Adsorption Equilibria and Kinetics of Carbon Monoxide on Zeolite 5A, 13X, MOF-5, and MOF-177. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 2245-2250	2.8	84
379	Gas Permeation and Diffusion Characteristics of MFI-Type Zeolite Membranes at High Temperatures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3767-3774	3.8	84
378	Improvement of Thermal Stability of Porous Nanostructured Ceramic Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1994</b> , 33, 860-870	3.9	84
377	Synthesis of b-Oriented TS-1 Films on Chitosan-Modified $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Substrates. <i>Advanced Materials</i> , <b>2006</b> , 18, 3261-3265	24	83
376	Selective CO <sub>2</sub> capture in an imine linked porphyrin porous polymer. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4566	4.9	82
375	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 126-135	9.6	81
374	Oxygen permeation through oxygen ionic or mixed-conducting ceramic membranes with chemical reactions. <i>Journal of Membrane Science</i> , <b>2004</b> , 231, 133-146	9.6	81
373	Hydrothermal stability of pure and modified microporous silica membranes. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 2803-2808	4.3	81
372	Catalytic Properties of Oxygen Semipermeable Perovskite-Type Ceramic Membrane Materials for Oxidative Coupling of Methane. <i>Journal of Catalysis</i> , <b>1996</b> , 164, 220-231	7.3	80

371	High-Temperature Sorption Process for Air Separation and Oxygen Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 2775-2784	3.9	78
370	Template-free synthesis of MFI-type zeolite membranes: Permeation characteristics and thermal stability improvement of membrane structure. <i>Journal of Membrane Science</i> , <b>2006</b> , 286, 213-222	9.6	77
369	In Situ Synthesis of P-Type Zeolite Membranes on Porous $\gamma$ -Alumina Supports. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 2404-2409	3.9	77
368	Comparison of Oxygen Permeability and Stability of Perovskite Type $\text{La}_{0.2}\text{A}_{0.8}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (A = Sr, Ba, Ca) Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 2963-2972	3.9	77
367	Analysis of oxidative coupling of methane in dense oxide membrane reactors. <i>Journal of Membrane Science</i> , <b>1995</b> , 103, 219-233	9.6	77
366	Transesterification of Camelina Sativa Oil Using Heterogeneous Metal Oxide Catalysts. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 4619-4624	4.1	76
365	Microporous inorganic membranes for high temperature hydrogen purification. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 121301	2.5	76
364	Ionic conducting ceramic and carbonate dual phase membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , <b>2012</b> , 417-418, 174-182	9.6	75
363	Gamma-Alumina Supported Carbon Molecular Sieve Membrane for Propylene/Propane Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 4297-4305	3.9	75
362	High performance BaBiScCo hollow fibre membranes for oxygen transport. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2516	35.4	75
361	Synthesis and oxygen permeation properties of ceramic-metal dual-phase membranes. <i>Journal of Membrane Science</i> , <b>2000</b> , 167, 123-133	9.6	75
360	Highly stable bilayer MFI zeolite membranes for high temperature hydrogen separation. <i>Journal of Membrane Science</i> , <b>2014</b> , 450, 425-432	9.6	74
359	Hydrothermal liquefaction of <i>Cyanidioschyzon merolae</i> and the influence of catalysts on products. <i>Bioresource Technology</i> , <b>2017</b> , 223, 91-97	11	74
358	Metal organic framework membranes for separation applications. <i>Current Opinion in Chemical Engineering</i> , <b>2015</b> , 8, 21-28	5.4	74
357	Hydrogen adsorption equilibrium and kinetics in metal-organic framework (MOF-5) synthesized with DEF approach. <i>Separation and Purification Technology</i> , <b>2009</b> , 64, 280-287	8.3	74
356	Removal of emulsified oil from water by inverse fluidization of hydrophobic aerogels. <i>Powder Technology</i> , <b>2010</b> , 203, 298-309	5.2	73
355	Stability of ZIF-8 in water under ambient conditions. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 279, 201-210	5.3	72
354	CO <sub>2</sub> capture using particulate silica aerogel immobilized with tetraethylenepentamine. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 176, 123-131	5.3	71

353	Silver Nanoparticles from Ultrasonic Spray Pyrolysis of Aqueous Silver Nitrate. <i>Aerosol Science and Technology</i> , <b>2005</b> , 39, 1010-1014	3.4	71
352	Thermal stability and its improvement of the alumina membrane top-layers prepared by sol-gel methods. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 715-720	4.3	69
351	CO <sub>2</sub> adsorption performance for amine grafted particulate silica aerogels. <i>Chemical Engineering Journal</i> , <b>2014</b> , 254, 190-197	14.7	67
350	Optimizing Pore Space for Flexible-Robust Metal-Organic Framework to Boost Trace Acetylene Removal. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9744-9751	16.4	66
349	Sol-gel synthesis and characterization of yttria stabilized zirconia membranes. <i>Journal of Membrane Science</i> , <b>1998</b> , 139, 75-83	9.6	66
348	Nano-structured Pd-long period fiber gratings integrated optical sensor for hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 134, 687-693	8.5	66
347	Oxidative coupling of methane in dense ceramic membrane reactor with high yields. <i>AIChE Journal</i> , <b>2002</b> , 48, 2298-2306	3.6	66
346	Synthesis and modification of ZSM-5/silicalite bilayer membrane with improved hydrogen separation performance. <i>Journal of Membrane Science</i> , <b>2012</b> , 396, 128-137	9.6	65
345	High-Temperature Stability of Palladium Membranes on Porous Metal Supports with Different Intermediate Layers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 1880-1886	3.9	65
344	Electric Transport and Oxygen Permeation Properties of Lanthanum Cobaltite Membranes Synthesized by Different Methods. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 646-653	3.9	65
343	Nanostructured thin palladium-silver membranes: Effects of grain size on gas permeation properties. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 3221-3227	4.3	64
342	Ultrathin carbon molecular sieve membrane for propylene/propane separation. <i>AIChE Journal</i> , <b>2016</b> , 62, 491-499	3.6	64
341	Synthesis of submicron polycrystalline MFI zeolite films on porous ceramic supports. <i>Journal of Membrane Science</i> , <b>1998</b> , 148, 233-241	9.6	63
340	Exposing the Molecular Sieving Architecture of Amorphous Silica Using Positron Annihilation Spectroscopy. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3818-3826	15.6	63
339	Enhanced Cr(VI) removal by polyethylenimine- and phosphorus-codoped hierarchical porous carbons. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 110-120	9.3	62
338	Hydrogen adsorption on metal-organic framework (MOF-5) synthesized by DMF approach. <i>Journal of Porous Materials</i> , <b>2009</b> , 16, 141-149	2.4	60
337	Evolution of Pore and Phase Structure of Sol-Gel Derived Lanthana Doped Titania at High Temperatures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1995</b> , 34, 1189-1195	3.9	60
336	Power dissipation in microwave-enhanced in situ transesterification of algal biomass to biodiesel. <i>Green Chemistry</i> , <b>2012</b> , 14, 809	10	59



335	Sol-Gel Synthesis of Pure and Copper Oxide Coated Mesoporous Alumina Granular Particles. <i>Journal of Catalysis</i> , <b>1998</b> , 174, 43-51	7.3	59
334	Adsorption Equilibrium and Kinetics of Microorganisms on Single-Wall Carbon Nanotubes. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 954-962	4	59
333	Catalyst impregnation and ethylene polymerization with mesoporous particle supported nickel-diimine catalyst. <i>Polymer</i> , <b>2003</b> , 44, 969-980	3.9	59
332	Crossflow filtration of chromium hydroxide suspension by ceramic membranes: fouling and its minimization by backpulsing. <i>Journal of Membrane Science</i> , <b>2000</b> , 174, 111-122	9.6	59
331	Oxygen Permeation and Oxidative Coupling of Methane in Yttria Doped Bismuth Oxide Membrane Reactor. <i>Journal of Catalysis</i> , <b>2000</b> , 193, 58-64	7.3	58
330	CVD of solid oxides in porous substrates for ceramic membrane modification. <i>AIChE Journal</i> , <b>1992</b> , 38, 445-454	3.6	58
329	Synthesis and characterization of thin ceramic-carbonate dual-phase membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , <b>2013</b> , 444, 402-411	9.6	57
328	Adsorption Equilibria of CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> , O <sub>2</sub> , and Ar on High Silica Zeolites. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4017-4023	2.8	57
327	Ceramic/glass composite high temperature seals for dense ionic-conducting ceramic membranes. <i>Journal of Membrane Science</i> , <b>2001</b> , 193, 185-193	9.6	57
326	Tubular lanthanum cobaltite perovskite type membrane for oxygen permeation. <i>Journal of Membrane Science</i> , <b>2000</b> , 166, 51-61	9.6	57
325	An asymmetric tubular ceramic-carbonate dual phase membrane for high temperature CO <sub>2</sub> separation. <i>Chemical Communications</i> , <b>2013</b> , 49, 9654-6	5.8	56
324	Sol-gel-derived mesoporous alumina granules. <i>Microporous and Mesoporous Materials</i> , <b>1999</b> , 30, 359-369	5.3	56
323	Thermal stability of ZIF-8 membranes for gas separations. <i>Journal of Membrane Science</i> , <b>2017</b> , 532, 9-19	9.6	55
322	A New Approach Towards Acid Catalysts with High Reactivity Based on Graphene Nanosheets. <i>ChemCatChem</i> , <b>2014</b> , 6, 2354-2363	5.2	55
321	Fast synthesis of temperature-sensitive PNIPAAm hydrogels by microwave irradiation. <i>European Polymer Journal</i> , <b>2008</b> , 44, 1217-1224	5.2	55
320	Effects of Water Vapor and Trace Gas Impurities in Flue Gas on CO <sub>2</sub> /N <sub>2</sub> Separation Using ZIF-68. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6744-6751	3.8	52
319	Effects of support pore structure on carbon dioxide permeation of ceramic-carbonate dual-phase membranes. <i>Chemical Engineering Science</i> , <b>2013</b> , 104, 891-898	4.4	52
318	Hydrogen permeation through terbium doped strontium cerate membranes enabled by presence of reducing gas in the downstream. <i>Journal of Membrane Science</i> , <b>2009</b> , 345, 201-206	9.6	52



317	Effect of Zirconium Doping on Hydrogen Permeation through Strontium Cerate Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2768-2774	3.9	52
316	Morphological and mechanical properties of nascent polyethylene fibers produced via ethylene extrusion polymerization with a metallocene catalyst supported on MCM-41 particles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 2433-2443	2.6	52
315	Metal-organic framework membrane process for high purity CO <sub>2</sub> production. <i>AIChE Journal</i> , <b>2016</b> , 62, 3836-3841	3.6	52
314	Gas permeation and separation properties of large-sheet stacked graphene oxide membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 550, 238-245	9.6	51
313	Pure and doped CeO <sub>2</sub> thin films prepared by MOCVD process. <i>Thin Solid Films</i> , <b>1998</b> , 324, 89-93	2.2	51
312	Synthesis and characterisation of MFI-type zeolites supported on carbon materials. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 42, 255-268	5.3	50
311	Sulfur Dioxide Sorption Properties and Thermal Stability of Hydrophobic Zeolites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1995</b> , 34, 4063-4070	3.9	50
310	Membranes for helium recovery: An overview on the context, materials and future directions. <i>Separation and Purification Technology</i> , <b>2017</b> , 176, 335-383	8.3	49
309	Adsorption and diffusion of carbon dioxide on ZIF-68. <i>Chemical Engineering Science</i> , <b>2014</b> , 118, 32-40	4.4	49
308	Granulation of sol-gel-derived nanostructured alumina. <i>AIChE Journal</i> , <b>1997</b> , 43, 505-514	3.6	49
307	Swelling/deswelling kinetics of PNIPAAm hydrogels synthesized by microwave irradiation. <i>Chemical Engineering Journal</i> , <b>2008</b> , 142, 263-270	14.7	49
306	An Efficient and Reusable Embedded Ru Catalyst for the Hydrogenolysis of Levulinic Acid to $\gamma$ -Valerolactone. <i>ChemSusChem</i> , <b>2017</b> , 10, 1720-1732	8.3	48
305	Propylene/Propane Mixture Separation Characteristics and Stability of Carbon Molecular Sieve Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9824-9831	3.9	48
304	Exploiting equilibrium-kinetic synergetic effect for separation of ethylene and ethane in a microporous metal-organic framework. <i>Science Advances</i> , <b>2020</b> , 6, eaaz4322	14.3	47
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151	Electrical conductivity and oxygen permeation properties of SrCoFeO <sub>x</sub> membranes. <i>Solid State Ionics</i> , <b>2010</b> , 180, 1633-1639	3.3	18
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25	Controllable synthesis of N-doped aligned carbon nanotubes from melamine-based carbon by water-assisted chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2019</b> , 27, 729-735	1.8	1
24	Conceptual process and analysis of water-gas-shift membrane reactor. <i>Journal of Shanghai Jiaotong University (Science)</i> , <b>2015</b> , 20, 228-233	0.6	1
23	Additions and corrections published in 2013. <i>Chemical Communications</i> , <b>2013</b> , 49, 11812	5.8	1
22	Defect-sealing synthesis of vertically oriented ordered mesoporous silica membranes. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 905-914	4.3	1
21	Oxygen- and Hydrogen-Permeable Dense Ceramic Membranes <b>2011</b> , 467-500		1
20	Xylene Separation Performance of Composition-Gradient MFI Zeolite Membranes. <i>Membrane Science and Technology</i> , <b>2011</b> , 14, 195-212		1
19	Hydrogen energy and solid state fuel cells. <i>Ionics</i> , <b>1998</b> , 4, 444-450	2.7	1
18	Prediction of Arsenic Removal by Adsorptive Media: Comparison of Field and Laboratory Studies	227-268	1
17	Reply to Comment on Gas Diffusion and Microstructural Properties of Ordered Mesoporous Silica Fibers' <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11606-11606	3.4	1
16	High-pressure CO <sub>2</sub> permeation properties and stability of ceramic-carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , <b>2022</b> , 646, 120249	9.6	1
15	Synergistic engineering of fluorine doping and oxygen vacancies towards high-energy and long-lifespan flexible solid-state asymmetric supercapacitor. <i>Ionics</i> , <b>2021</b> , 27, 2649-2658	2.7	1
14	Nickel Nanoparticles with Narrow Size Distribution Confined in Nitrogen-Doped Carbon for Efficient Reduction of CO <sub>2</sub> to CO. <i>Catalysis Letters</i> , <b>2011</b> , 112, 111-116	2.8	1
13	Fabrication of vertically aligned N-doped carbon nanotube arrays on vermiculite by horizontal chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2021</b> , 29, 202-211	1.8	1
12	CO <sub>2</sub> -permselective membrane reactor for steam reforming of methane. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119914	9.6	1

11	Synthesis of ZIF-8 Membranes on $\gamma$ -Alumina Supports for Separation of Propylene/Propane Gas Mixture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 4125-4133	3.9	1
10	Sorbent-based oxygen separation with YBC114 for energy storage systems. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134884	14.7	0
9	Synergistic effect of NiCo alloy and NiCoS integrated with N doped carbon for superior rate and ultralong-lifespan lithium sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 905, 164175	5.7	0
8	Optimization of [Bmim][HSO <sub>4</sub> ]-Catalyzed Transesterification of Camelina Oil. <i>Chemical Engineering and Technology</i> , <b>2020</b> , 43, 403-411	2	0
7	Delicate Tuning of the Ni/Co Ratio in Bimetal Layered Double Hydroxides for Efficient N Electroreduction.. <i>ChemSusChem</i> , <b>2022</b> , e202200127	8.3	0
6	B-oriented MFI zeolite membranes for xylene isomer separation - Effect of xylene activity on separation performance. <i>Journal of Membrane Science</i> , <b>2022</b> , 652, 120492	9.6	0
5	Pyrolysis and Gasification Characteristics of Galdieria sulphuraria Microalgae. <i>Bioenergy Research</i> , <b>2021</b> , 14, 100000	3.1	0
4	Counter diffusion self assembly synthesis of ordered mesoporous silica membranes. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 170, 363-370	1.8	0
3	Ziegler-Natta Catalysis <b>2005</b> , 3247-3259		
2	Large scale synthesis of carbon nanopearl chains by chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2021</b> , 29, 773-778	1.8	0
1	Correction to Effects of Oxygen Vacancy Order-Disorder Phase Transition on Air Separation by Perovskite Sorbents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 505-505	3.9	0