

Jerry Lin

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.

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	Fine pore engineering in a series of isoreticular metal-organic frameworks for efficient CH ₄ /CO ₂ separation.. <i>Nature Communications</i> , 2022 , 13, 200	17.4	20
441	Sorbent-based oxygen separation with YBC114 for energy storage systems. <i>Chemical Engineering Journal</i> , 2022 , 435, 134884	14.7	0
440	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> , 2022 , 905, 164175	5.7	0
439	High-Hole-Mobility Metal-Organic Framework as Dopant-Free Hole Transport Layer for Perovskite Solar Cells.. <i>Nanoscale Research Letters</i> , 2022 , 17, 6	5	2
438	High-pressure CO ₂ permeation properties and stability of ceramic-carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , 2022 , 646, 120249	9.6	1
437	CO ₂ -permselective membrane reactor for steam reforming of methane. <i>Journal of Membrane Science</i> , 2022 , 641, 119914	9.6	1
436	Delicate Tuning of the Ni/Co Ratio in Bimetal Layered Double Hydroxides for Efficient N Electroreduction.. <i>ChemSusChem</i> , 2022 , e202200127	8.3	0
435	Synthesis of ZIF-8 Membranes on γ -Alumina Supports for Separation of Propylene/Propane Gas Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4125-4133	3.9	1
434	B-oriented MFI zeolite membranes for xylene isomer separation - Effect of xylene activity on separation performance. <i>Journal of Membrane Science</i> , 2022 , 652, 120492	9.6	0
433	Suppressing lithium dendrite growth on lithium-ion/metal batteries by a tortuously porous γ -Alumina separator. <i>Electrochimica Acta</i> , 2022 , 421, 140478	6.7	2
432	Large scale synthesis of carbon nanopearl chains by chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021 , 29, 773-778	1.8	
431	Synergistic engineering of fluorine doping and oxygen vacancies towards high-energy and long-lifespan flexible solid-state asymmetric supercapacitor. <i>Ionics</i> , 2021 , 27, 2649-2658	2.7	1
430	High Dietary Intervention of Lauric Triglyceride Might be Harmful to Its Improvement of Cholesterol Metabolism in Obese Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 4453-4463	5.7	2
429	Ultramicroporous carbon granules with narrow pore size distribution for efficient CH ₄ separation from coal-bed gases. <i>AIChE Journal</i> , 2021 , 67, e17281	3.6	4
428	Adsorption Configuration-Determined Selective Hydrogenative Ring Opening and Ring Rearrangement of Furfural over Metal Phosphate. <i>ACS Catalysis</i> , 2021 , 11, 6406-6415	13.1	12
427	Selective Synthesis of Bioderived Dibenzofurans and Bicycloalkanes from a Cellulose-Based Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6748-6755	8.3	2
426	Chemical immobilization of amino acids into robust metal-organic framework for efficient SO ₂ removal. <i>AIChE Journal</i> , 2021 , 67, e17300	3.6	2

425	Enhancing selectivity of ZIF-8 membranes by short-duration postsynthetic ligand-exchange modification. <i>Journal of Membrane Science</i> , 2021 , 619, 118743	9.6	10
424	Fabrication of vertically aligned N-doped carbon nanotube arrays on vermiculite by horizontal chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021 , 29, 202-211	1.8	1
423	Boosting CO ₂ -to-CO conversion on a robust single-atom copper decorated carbon catalyst by enhancing intermediate binding strength. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1705-1712	13	20
422	Catalyst-Free Ceramic-Carbonate Dual-Phase Membrane Reactors for High-Temperature Water Gas Shift: A Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3581-3588	3.9	2
421	MOF-Encapsulating Metal-Acid Interfaces for Efficient Catalytic Hydrogenolysis of Biomass-Derived Aromatic Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11127-11136	8.3	2
420	High-performance MFI zeolite hollow fiber membranes synthesized by double-layer seeding with variable temperature secondary growth. <i>Journal of Membrane Science</i> , 2021 , 618, 118573	9.6	14
419	Hydrogen-Catalyzed Acid Transformation for the Hydration of Alkenes and Epoxy Alkanes over Co-N Frustrated Lewis Pair Surfaces. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	5
418	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	16.4	66
417	Ethanol extracts from <i>Cinnamomum camphora</i> seed kernel: Potential bioactivities as affected by alkaline hydrolysis and simulated gastrointestinal digestion. <i>Food Research International</i> , 2020 , 137, 109363	7.63	10
416	Beam-sensitive metal-organic framework structure determination by microcrystal electron diffraction. <i>Ultramicroscopy</i> , 2020 , 216, 113048	3.1	9
415	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	13.1	40
414	Effect of H-Bonding on Brønsted Acid Ionic Liquids Catalyzed In Situ Transesterification of Wet Algae. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4647-4657	8.3	5
413	Agglomerated nickel-cobalt layered double hydroxide nanosheets on reduced graphene oxide clusters as efficient asymmetric supercapacitor electrodes. <i>Journal of Materials Research</i> , 2020 , 35, 1205-1213	2.5	10
412	A novel pectin from <i>Akebia trifoliata</i> var. <i>australis</i> fruit peel and its use as a wall-material to coat curcumin-loaded zein nanoparticle. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 40-49	7.9	19
411	Facile one-step synthesis of N-doped carbon nanotubes/N-doped carbon nanofibers hierarchical composites by chemical vapor deposition. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	7
410	Effects of lithium dendrites on thermal runaway and gassing of LiFePO ₄ batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2342-2351	5.8	15
409	Gas Transport Properties of Teflon AF2400/Ceramic Composite Hollow Fiber Membranes in Dissolved-Gas-in-Oil Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5392-5401	3.9	4
408	Efficient screening of novel adsorbents for coalbed methane recovery. <i>Journal of Colloid and Interface Science</i> , 2020 , 565, 131-141	9.3	9

407	Humidity independent hydrogen sulfide sensing response achieved with monolayer film of CuO nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127785	8.5	18
406	Experimental and simulation study on efficient CH ₄ /N ₂ separation by pressure swing adsorption on silicalite-1 pellets. <i>Chemical Engineering Journal</i> , 2020 , 388, 124222	14.7	23
405	The tetracyclines removal by MgAl layered double oxide in the presence of phosphate or nitrate: Behaviors and mechanism exploration. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 124-134	9.3	10
404	Exploiting equilibrium-kinetic synergetic effect for separation of ethylene and ethane in a microporous metal-organic framework. <i>Science Advances</i> , 2020 , 6, eaaz4322	14.3	47
403	Mixed-conducting ceramic-carbonate dual-phase membranes: Gas permeation and counter-permeation. <i>Journal of Membrane Science</i> , 2020 , 605, 118093	9.6	8
402	Double-metal cyanide as an acid and hydrogenation catalyst for the highly selective ring-rearrangement of biomass-derived furfuryl alcohol to cyclopentenone compounds. <i>Green Chemistry</i> , 2020 , 22, 2549-2557	10	13
401	Postsynthetic Modification of ZIF-8 Membranes via Membrane Surface Ligand Exchange for Light Hydrocarbon Gas Separation Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3893-3902	9.5	22
400	Efficient SO ₂ Removal Using a Microporous Metal-Organic Framework with Molecular Sieving Effect. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 874-882	3.9	27
399	High CO ₂ permeability of ceramic-carbonate dual-phase hollow fiber membrane at medium-high temperature. <i>Journal of Membrane Science</i> , 2020 , 597, 117770	9.6	26
398	Hydrogen production with carbon dioxide capture by dual-phase ceramic-carbonate membrane reactor via steam reforming of methane. <i>Journal of Membrane Science</i> , 2020 , 598, 117780	9.6	24
397	Performance of electrode-supported silica membrane separators in lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1254-1264	5.8	2
396	Fabrication of dual-hollow heterostructure of NiCoS sphere and nanotubes as advanced electrode for high-performance flexible all-solid-state supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 313-321	9.3	9
395	A Stable Zn-Based Metal-Organic Framework as an Efficient Catalyst for Carbon Dioxide Cycloaddition and Alcoholysis at Mild Conditions. <i>Catalysis Letters</i> , 2020 , 150, 1408-1417	2.8	3
394	Optimization of [Bmim][HSO ₄]-Catalyzed Transesterification of Camelina Oil. <i>Chemical Engineering and Technology</i> , 2020 , 43, 403-411	2	0
393	Teflon AF2400 Hollow Fiber Membrane Contactor for Dissolved Gas-in-Oil Extraction: Mass Transfer Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16795-16804	3.9	3
392	Safe Li-ion batteries enabled by completely inorganic electrode-coated silicalite separators. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5783-5794	5.8	5
391	Robust Ultramicroporous Metal-Organic Framework with Rich Hydroxyl-Decorated Channel Walls for Highly Selective Noble Gas Separation. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4018-4023	2.8	4
390	Catalytic mixed conducting ceramic membrane reactors for methane conversion. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 1868-1891	4.9	20

389	Enhanced electrocatalytic nitrogen reduction activity by incorporation of a carbon layer on SnS microflowers. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20677-20686	13	11
388	Ultrafast Semi-Solid Processing of Highly Durable ZIF-8 Membranes for Propylene/Propane Separation. <i>Angewandte Chemie</i> , 2020 , 132, 22093-22098	3.6	2
387	Ultrafast Semi-Solid Processing of Highly Durable ZIF-8 Membranes for Propylene/Propane Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21909-21914	16.4	26
386	Nanometer-Thick Films of Aligned ZnO Nanowires Sensitized with Au Nanoparticles for Few-ppb-Level Acetylene Detection. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9174-9184	5.6	2
385	Functionalized Biochar with Superacidity and Hydrophobicity as a Highly Efficient Catalyst in the Synthesis of Renewable High-Density Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7785-7794	8.2	11
384	High H ₂ permeable SAPO-34 hollow fiber membrane for high temperature propane dehydrogenation application. <i>AIChE Journal</i> , 2020 , 66, e16278	3.6	18
383	Template-Free Synthesis of Highly β -Oriented MFI-Type Zeolite Thin Films by Seeded Secondary Growth. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2519-2523	16.4	26
382	Hydrolysis and condensation of ZIF-8 in water. <i>Microporous and Mesoporous Materials</i> , 2019 , 288, 109568-109573	5.3	40
381	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> , 2019 , 27, 729-735	1.8	1
380	Strategy for stabilizing noble metal nanoparticles without sacrificing active sites. <i>Chemical Communications</i> , 2019 , 55, 6846-6849	5.8	12
379	Electrode-coated alumina separators for lithium-ion batteries - effect of particle size and distribution of alumina powders. <i>Powder Technology</i> , 2019 , 353, 230-237	5.2	8
378	Self-Assembled Monolayer of Metal Oxide Nanosheet and Structure and Gas-Sensing Property Relationship. <i>ACS Sensors</i> , 2019 , 4, 1279-1290	9.2	33
377	A novel study of sulfur-resistance for CO ₂ separation through asymmetric ceramic-carbonate dual-phase membrane at high temperature. <i>Journal of Membrane Science</i> , 2019 , 581, 72-81	9.6	20
376	Graphene oxide membranes with narrow inter-sheet galleries for enhanced hydrogen separation. <i>Chemical Communications</i> , 2019 , 55, 3077-3080	5.8	23
375	Template-Free Synthesis of Highly β -Oriented MFI-Type Zeolite Thin Films by Seeded Secondary Growth. <i>Angewandte Chemie</i> , 2019 , 131, 2541-2545	3.6	5
374	Highly Efficient Alkylation Using Hydrophobic Sulfonic Acid-Functionalized Biochar as a Catalyst for Synthesis of High-Density Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14973-14981	8.3	19
373	Simultaneous Conversion of C and C Sugars into Methyl Levulinate with the Addition of 1,3,5-Trioxane. <i>ChemSusChem</i> , 2019 , 12, 4400-4404	8.3	8
372	Exploiting Synergistic Effects of Intermolecular Interactions To Synthesize Hybrid Rejuvenators To Revitalize Aged Asphalt. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15514-15525	8.3	30

371	Facile Preparation of Biomass-Derived Mesoporous Carbons for Highly Efficient and Selective SO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14929-14937	3.9	5
370	Beneficial Effect of Water on the Catalytic Conversion of Sugars to Methyl Lactate in Near-Critical Methanol Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12451-12458	3.9	4
369	Enhancement of Catalytic Activity by NiOOH for the Production of Methyl Lactate from Sugars in Near-Critical Methanol Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3659-3665	3.9	9
368	An On-Line Transient Study on Gassing Mechanism of Lithium Titanate Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A4150-A4157	3.9	2
367	A N-doped graphene-cobalt nickel sulfide aerogel as a sulfur host for lithium-sulfur batteries.. <i>RSC Advances</i> , 2019 , 9, 32247-32257	3.7	7
366	Stability of ZIF-8 in water under ambient conditions. <i>Microporous and Mesoporous Materials</i> , 2019 , 279, 201-210	5.3	72
365	Inorganic Membranes for Process Intensification: Challenges and Perspective. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5787-5796	3.9	30
364	Correction to Effects of Oxygen Vacancy OrderDisorder Phase Transition on Air Separation by Perovskite Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 505-505	3.9	
363	Effect of anion co-existence on ionic organic pollutants removal over Ca based layered double hydroxide. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 440-446	9.3	4
362	Gas permeation and separation properties of large-sheet stacked graphene oxide membranes. <i>Journal of Membrane Science</i> , 2018 , 550, 238-245	9.6	51
361	Influences of Deprotonation and Modulation on Nucleation and Growth of UiO-66: Intergrowth and Orientation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2200-2206	3.8	28
360	Enhanced Cr(VI) removal by polyethylenimine- and phosphorus-codoped hierarchical porous carbons. <i>Journal of Colloid and Interface Science</i> , 2018 , 523, 110-120	9.3	62
359	Highly CO ₂ perm-selective metal-organic framework membranes through CO ₂ annealing post-treatment. <i>Journal of Membrane Science</i> , 2018 , 555, 97-104	9.6	10
358	Synthesis of graphene oxide membranes on polyester substrate by spray coating for gas separation. <i>Chemical Engineering Science</i> , 2018 , 190, 312-319	4.4	40
357	CO ₂ permeation through asymmetric thin tubular ceramic-carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , 2018 , 564, 73-81	9.6	24
356	Effect of substrate curvature on microstructure and gas permeability of hollow fiber MFI zeolite membranes. <i>AIChE Journal</i> , 2018 , 64, 3419-3428	3.6	18
355	Simulation and optimization of pressure swing adsorption process for high-temperature air separation by perovskite sorbents. <i>Chemical Engineering Journal</i> , 2018 , 354, 62-74	14.7	29
354	Xylene Vapor Permeation in MFI Zeolite Membranes Made by Templated and Template-Free Secondary Growth of Randomly Oriented Seeds: Effects of Xylene Activity and Microstructure. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16059-16068	3.9	18

353	Metal-Oxide Nanoparticles with a Dopant-Segregation-Induced CoreShell Structure: Gas Sensing Properties. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21322-21329	3.8	6
352	Improving hydrostability of ZIF-8 membranes via surface ligand exchange. <i>Journal of Membrane Science</i> , 2017 , 532, 1-8	9.6	43
351	Oil tea shell derived porous carbon with an extremely large specific surface area and modification with MnO ₂ for high-performance supercapacitor electrodes. <i>Applied Materials Today</i> , 2017 , 7, 47-54	6.6	30
350	Thermal stability of ZIF-8 membranes for gas separations. <i>Journal of Membrane Science</i> , 2017 , 532, 9-19	9.6	55
349	Lithium Ion Batteries with Alumina Separator for Improved Safety. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1184-A1191	3.9	17
348	A comparative study on polypropylene separators coated with different inorganic materials for lithium-ion batteries. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 346-352	4.5	21
347	ZIF-8 Membrane Ethylene/Ethane Transport Characteristics in Single and Binary Gas Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7567-7575	3.9	45
346	Co-liquefaction of mixed culture microalgal strains under sub-critical water conditions. <i>Bioresource Technology</i> , 2017 , 236, 129-137	11	43
345	An Efficient and Reusable Embedded Ru Catalyst for the Hydrogenolysis of Levulinic Acid to γ -Valerolactone. <i>ChemSusChem</i> , 2017 , 10, 1720-1732	8.3	48
344	Membranes for helium recovery: An overview on the context, materials and future directions. <i>Separation and Purification Technology</i> , 2017 , 176, 335-383	8.3	49
343	Poisoning Effect of H ₂ S on CO ₂ Permeation of Samarium-Doped-Ceria/Carbonate Dual-Phase Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14662-14669	3.9	13
342	Effects of Oxygen Vacancy OrderDisorder Phase Transition on Air Separation by Perovskite Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6057-6064	3.9	20
341	Highly gas permeable, ultrathin Teflon AF2400/Alumina composite hollow fiber membranes for dissolved gas analysis. <i>Journal of Membrane Science</i> , 2017 , 540, 243-250	9.6	15
340	Carbon dioxide permeation through ceramic-carbonate dual-phase membrane-effects of sulfur dioxide. <i>Journal of Membrane Science</i> , 2017 , 540, 477-484	9.6	13
339	Hydrothermal liquefaction of Cyanidioschyzon merolae and the influence of catalysts on products. <i>Bioresource Technology</i> , 2017 , 223, 91-97	11	74
338	Catalyst-free ceramic-carbonate dual phase membrane reactor for hydrogen production from gasifier syngas. <i>Journal of Membrane Science</i> , 2016 , 520, 907-913	9.6	19
337	Pervaporation Separation of Organic Mixtures by MOF-5 Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8652-8658	3.9	34
336	Kinetics of ZIF-8 Thermal Decomposition in Inert, Oxidizing, and Reducing Environments. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14015-14026	3.8	92

335	Novel Pd-BTP/SiO ₂ as an Effective Heterogeneous Catalyst for Heck Reactions. <i>Chemical Engineering Communications</i> , 2016 , 203, 488-495	2.2	2
334	Autothermal reforming of ethanol in dense oxygen permeation membrane reactor. <i>Catalysis Today</i> , 2016 , 264, 214-220	5.3	15
333	Electrode-supported thin γ -alumina separators for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 305, 209-216	8.9	17
332	Zeolite coated polypropylene separators with tunable surface properties for lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 406-414	5.3	36
331	Improved synthesis of trigone trimer cluster metal organic framework MIL-100Al by a later entry of methyl groups. <i>Chemical Communications</i> , 2016 , 52, 725-8	5.8	12
330	Metal-organic framework membrane process for high purity CO ₂ production. <i>AIChE Journal</i> , 2016 , 62, 3836-3841	3.6	52
329	CHEMISTRY. Molecular sieves for gas separation. <i>Science</i> , 2016 , 353, 121-2	33.3	109
328	Ultrathin carbon molecular sieve membrane for propylene/propane separation. <i>AIChE Journal</i> , 2016 , 62, 491-499	3.6	64
327	Synthesis of ZIF-68 Membrane on a ZnO Modified γ -Alumina Support by a Modified Reactive Seeding Method. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2831-2839	3.9	23
326	Ceramic coated polypropylene separators for lithium-ion batteries with improved safety: effects of high melting point organic binder. <i>RSC Advances</i> , 2016 , 6, 40002-40009	3.7	26
325	Mechanism of CO ₂ adsorption on Mg/DOBDC with elevated CO ₂ loading. <i>Fuel</i> , 2016 , 181, 340-346	7.1	20
324	Selective CO ₂ adsorption in a porphyrin polymer with benzimidazole linkages. <i>RSC Advances</i> , 2015 , 5, 10960-10963	3.7	23
323	Conceptual process and analysis of water-gas-shift membrane reactor. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2015 , 20, 228-233	0.6	1
322	Membrane reactors for hydrogen production from coal 2015 , 145-186		3
321	High and selective CO ₂ adsorption by a phthalocyanine nanoporous polymer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10284-10288	13	44
320	Stability of ZIF-8 membranes and crystalline powders in water at room temperature. <i>Journal of Membrane Science</i> , 2015 , 485, 103-111	9.6	142
319	Propylene/Propane Mixture Separation Characteristics and Stability of Carbon Molecular Sieve Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9824-9831	3.9	48
318	Surface roughness and chemical properties of porous inorganic films. <i>Thin Solid Films</i> , 2015 , 591, 111-118.2		5

317	Synthesis and stability of zeolitic imidazolate framework-68 membranes. <i>Microporous and Mesoporous Materials</i> , 2015 , 204, 99-105	5.3	30
316	Synthesis of a Polyimide Porous Porphyrin Polymer for Selective CO ₂ Capture. <i>Journal of Chemistry</i> , 2015 , 2015, 1-7	2.3	6
315	Strong binding site molarity of MOFs and its effect on CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2015 , 214, 242-245	5.3	22
314	Pore structure characterization of supported polycrystalline zeolite membranes by positron annihilation spectroscopy. <i>Journal of Membrane Science</i> , 2015 , 477, 41-48	9.6	12
313	Metal organic framework membranes for separation applications. <i>Current Opinion in Chemical Engineering</i> , 2015 , 8, 21-28	5.4	74
312	Tubular dual-layer MFI zeolite membrane reactor for hydrogen production via the WGS reaction: Experimental and modeling studies. <i>Chemical Engineering Journal</i> , 2015 , 268, 219-229	14.7	39
311	Synthesis of a benzothiazole nanoporous polymer for selective CO ₂ adsorption. <i>RSC Advances</i> , 2014 , 4, 9669	3.7	24
310	Gas transport properties and propylene/propane separation characteristics of ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2014 , 451, 85-93	9.6	201
309	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , 2014 , 453, 126-135	9.6	81
308	Highly stable bilayer MFI zeolite membranes for high temperature hydrogen separation. <i>Journal of Membrane Science</i> , 2014 , 450, 425-432	9.6	74
307	A highly permeable and selective amino-functionalized MOF CAU-1 membrane for CO ₂ -N ₂ separation. <i>Chemical Communications</i> , 2014 , 50, 3699-701	5.8	91
306	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	3.8	52
305	Adsorption and diffusion of carbon dioxide on ZIF-68. <i>Chemical Engineering Science</i> , 2014 , 118, 32-40	4.4	49
304	A New Approach Towards Acid Catalysts with High Reactivity Based on Graphene Nanosheets. <i>ChemCatChem</i> , 2014 , 6, 2354-2363	5.2	55
303	Stability of LaBr ₃ /Ce Oxide/Carbonate Dual-Phase Membranes for Carbon Dioxide Separation at High Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2432-2440	3.9	31
302	Asymmetric Thin Samarium Doped Cerium Oxide/Carbonate Dual-Phase Membrane for Carbon Dioxide Separation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13459-13466	3.9	26
301	Optimization of mesoporous carbons for efficient adsorption of berberine hydrochloride from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2014 , 424, 104-12	9.3	17
300	Thin oriented AFI zeolite membranes for molecular sieving separation. <i>Microporous and Mesoporous Materials</i> , 2014 , 186, 80-83	5.3	19

299	Carbon dioxide permeation properties and stability of samarium-doped-ceria carbonate dual-phase membranes. <i>Journal of Membrane Science</i> , 2014 , 467, 244-252	9.6	46
298	CO2 adsorption performance for amine grafted particulate silica aerogels. <i>Chemical Engineering Journal</i> , 2014 , 254, 190-197	14.7	67
297	Organic solvent pervaporation properties of MOF-5 membranes. <i>Separation and Purification Technology</i> , 2014 , 121, 38-45	8.3	44
296	Ceramic-carbonate dual-phase membrane with improved chemical stability for carbon dioxide separation at high temperature. <i>Solid State Ionics</i> , 2014 , 263, 172-179	3.3	30
295	Defect-sealing synthesis of vertically oriented ordered mesoporous silica membranes. <i>Journal of Materials Science</i> , 2014 , 49, 905-914	4.3	1
294	Biodiesel production from low cost and renewable feedstock. <i>Open Engineering</i> , 2013 , 3,	1.7	14
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