

Hae-Kwon Jeong

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89
papers

7,351
citations

35
h-index

85
g-index

91
ext. papers

8,298
ext. citations

7.9
avg, IF

6.38
L-index

#	Paper	IF	Citations
89	Carbon dioxide capture-related gas adsorption and separation in metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2011 , 255, 1791-1823	23.2	1614
88	In situ synthesis of thin zeolitic-imidazolate framework ZIF-8 membranes exhibiting exceptionally high propylene/propane separation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10763-8	16.4	413
87	Current Status of Metal-Organic Framework Membranes for Gas Separations: Promises and Challenges. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2179-2199	3.9	405
86	Synthesis of zeolitic imidazolate framework films and membranes with controlled microstructures. <i>Langmuir</i> , 2010 , 26, 14636-41	4	366
85	Synthesis of continuous MOF-5 membranes on porous alumina substrates. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 296-301	5.3	298
84	Heteroepitaxially grown zeolitic imidazolate framework membranes with unprecedented propylene/propane separation performances. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12304-11	16.4	268
83	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
82	Grain boundary defect elimination in a zeolite membrane by rapid thermal processing. <i>Science</i> , 2009 , 325, 590-3	33.3	249
81	Rapid fabrication of metal organic framework thin films using microwave-induced thermal deposition. <i>Chemical Communications</i> , 2008 , 2441-3	5.8	193
80	HKUST-1 membranes on porous supports using secondary growth. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3938		190
79	Simultaneous enhancement of mechanical properties and CO ₂ selectivity of ZIF-8 mixed matrix membranes: Interfacial toughening effect of ionic liquid. <i>Journal of Membrane Science</i> , 2016 , 511, 130-142	8.6	171
78	Highly propylene-selective supported zeolite-imidazolate framework (ZIF-8) membranes synthesized by rapid microwave-assisted seeding and secondary growth. <i>Chemical Communications</i> , 2013 , 49, 3854-6	5.8	169
77	Zeolite (MFI) Crystal Morphology Control Using Organic Structure-Directing Agents. <i>Chemistry of Materials</i> , 2004 , 16, 5697-5705	9.6	145
76	Fabrication of Polymer/Selective-Flake Nanocomposite Membranes and Their Use in Gas Separation. <i>Chemistry of Materials</i> , 2004 , 16, 3838-3845	9.6	138
75	One step in situ synthesis of supported zeolitic imidazolate framework ZIF-8 membranes: Role of sodium formate. <i>Microporous and Mesoporous Materials</i> , 2013 , 165, 63-69	5.3	120
74	Building multiple adsorption sites in porous polymer networks for carbon capture applications. <i>Energy and Environmental Science</i> , 2013 , 6, 3559	35.4	115
73	Isorecticular metal-organic frameworks and their membranes with enhanced crack resistance and moisture stability by surfactant-assisted drying. <i>Langmuir</i> , 2011 , 27, 2652-7	4	112

72	A highly crystalline layered silicate with three-dimensionally microporous layers. <i>Nature Materials</i> , 2003 , 2, 53-8	27	106
71	Rapid microwave-assisted synthesis of hybrid zeolitic-imidazolate frameworks with mixed metals and mixed linkers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6090-6099	13	105
70	Heteroepitaxial Growth of Isostructural Metal-Organic Frameworks and Their Hybrid Films. <i>Crystal Growth and Design</i> , 2010 , 10, 1283-1288	3.5	102
69	Synthesis and Structure Determination of ETS-4 Single Crystals. <i>Chemistry of Materials</i> , 2001 , 13, 4247-4254	3.5	95
68	High-Flux Zeolitic Imidazolate Framework Membranes for Propylene/Propane Separation by Postsynthetic Linker Exchange. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 156-161	16.4	93
67	ZIF-67 Framework: A Promising New Candidate for Propylene/Propane Separation. Experimental Data and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8116-8124	3.8	86
66	Hot Electrons Generated from Doped Quantum Dots via Upconversion of Excitons to Hot Charge Carriers for Enhanced Photocatalysis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5549-54	16.4	85
65	Oriented molecular sieve membranes by heteroepitaxial growth. <i>Journal of the American Chemical Society</i> , 2002 , 124, 12966-8	16.4	82
64	An unconventional rapid synthesis of high performance metal-organic framework membranes. <i>Langmuir</i> , 2013 , 29, 7896-902	4	76
63	A new superior competitor for exceptional propylene/propane separations: ZIF-67 containing mixed matrix membranes. <i>Journal of Membrane Science</i> , 2017 , 526, 367-376	9.6	72
62	Improving propylene/propane separation performance of Zeolitic-Imidazolate framework ZIF-8 Membranes. <i>Chemical Engineering Science</i> , 2015 , 124, 20-26	4.4	72
61	Ultrathin zeolitic-imidazolate framework ZIF-8 membranes on polymeric hollow fibers for propylene/propane separation. <i>Journal of Membrane Science</i> , 2018 , 559, 28-34	9.6	71
60	Recent advances on mixed-matrix membranes for gas separation: Opportunities and engineering challenges. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 1577-1600	2.8	70
59	Generation of Monodisperse Mesoporous Silica Microspheres with Controllable Size and Surface Morphology in a Microfluidic Device. <i>Advanced Functional Materials</i> , 2008 , 18, 4014-4021	15.6	68
58	Rapid One-Pot Microwave Synthesis of Mixed-Linker Hybrid Zeolitic-Imidazolate Framework Membranes for Tunable Gas Separations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5586-5593	9.5	65
57	Synthesis of amine-functionalized ZIF-8 with 3-amino-1,2,4-triazole by postsynthetic modification for efficient CO ₂ -selective adsorbents and beyond. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18912-18919	13	47
56	Defect-induced ripening of zeolitic-imidazolate framework ZIF-8 and its implication to vapor-phase membrane synthesis. <i>Chemical Communications</i> , 2016 , 52, 11669-11672	5.8	46
55	Defect-dependent stability of highly propylene-selective zeolitic-imidazolate framework ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2017 , 529, 105-113	9.6	37

54	Facile synthesis of Cd-substituted zeolitic-imidazolate framework Cd-ZIF-8 and mixed-metal CdZn-ZIF-8. <i>Microporous and Mesoporous Materials</i> , 2018 , 264, 35-42	5.3	35
53	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
52	Effects of zinc salts on the microstructure and performance of zeolitic-imidazolate framework ZIF-8 membranes for propylene/propane separation. <i>Microporous and Mesoporous Materials</i> , 2018 , 259, 155-162	5.3	33
51	Selective Removal of Radioactive Cesium from Nuclear Waste by Zeolites: On the Origin of Cesium Selectivity Revealed by Systematic Crystallographic Studies. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10594-10608	3.8	32
50	High-Flux Zeolitic Imidazolate Framework Membranes for Propylene/Propane Separation by Postsynthetic Linker Exchange. <i>Angewandte Chemie</i> , 2018 , 130, 162-167	3.6	30
49	Generation of covalently functionalized hierarchical IRMOF-3 by post-synthetic modification. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 740-745	14.7	30
48	Conversion of methane to higher hydrocarbons in pulsed DC barrier discharge at atmospheric pressure. <i>Korean Journal of Chemical Engineering</i> , 2001 , 18, 196-201	2.8	29
47	In situ formation of zeolitic-imidazolate framework thin films and composites using modified polymer substrates. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9680-9689	13	28
46	Etiles and mortar approach: A simple technique for the facile fabrication of continuous b-oriented MFI silicalite-1 thin films. <i>Microporous and Mesoporous Materials</i> , 2009 , 122, 288-293	5.3	28
45	Linker-Doped Zeolitic Imidazolate Frameworks (ZIFs) and Their Ultrathin Membranes for Tunable Gas Separations. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18377-18385	9.5	27
44	Translational dynamics of water in a nanoporous layered silicate. <i>Physical Review B</i> , 2005 , 71,	3.3	25
43	Synthesis of a new open framework cerium silicate and its structure determination by single crystal X-ray diffraction. <i>Chemical Communications</i> , 2002 , 2398-9	5.8	25
42	On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39631-39644	9.5	25
41	Ethane diffusion in mixed linker zeolitic imidazolate framework-7-8 by pulsed field gradient NMR in combination with single crystal IR microscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23967-23975	7.6	25
40	Polyimide/ZIF-7 mixed-matrix membranes: understanding the in situ confined formation of the ZIF-7 phases inside a polymer and their effects on gas separations. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11210-11217	13	20
39	In-situ linker doping as an effective means to tune zeolitic-imidazolate framework-8 (ZIF-8) fillers in mixed-matrix membranes for propylene/propane separation. <i>Journal of Membrane Science</i> , 2020 , 596, 117689	9.6	19
38	On the nanogate-opening pressures of copper-doped zeolitic imidazolate framework ZIF-8 for the adsorption of propane, propylene, isobutane, and n-butane. <i>Journal of Materials Science</i> , 2019 , 54, 5513-5527	4.3	19
37	Use of silver nanoparticles for managing <i>Gibberella fujikuroi</i> on rice seedlings. <i>Crop Protection</i> , 2015 , 74, 65-69	2.7	18

36	Synthesis and gas permeation properties of highly b-oriented MFI silicalite-1 thin membranes with controlled microstructure. <i>Microporous and Mesoporous Materials</i> , 2011 , 141, 175-183	5.3	18
35	Synthesis of Ultrathin Zeolitic Imidazolate Framework ZIF-8 Membranes on Polymer Hollow Fibers Using a Polymer Modification Strategy for Propylene/Propane Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14947-14953	3.9	15
34	Highly Propylene-Selective Mixed-Matrix Membranes by in Situ Metal-Organic Framework Formation Using a Polymer-Modification Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25949-25957	8.5	15
33	Adsorption Equilibrium and Kinetics of Nitrogen, Methane and Carbon Dioxide Gases onto ZIF-8, Cu10%/ZIF-8, and Cu30%/ZIF-8. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6653-6661	3.9	13
32	The polymeric upper bound for N ₂ /NF ₃ separation and beyond; ZIF-8 containing mixed matrix membranes. <i>Journal of Membrane Science</i> , 2015 , 486, 29-39	9.6	13
31	Selective adsorption of carbon dioxide, methane and nitrogen using resorcinol-formaldehyde-xerogel activated carbon. <i>Adsorption</i> , 2017 , 23, 933-944	2.6	12
30	Synergistic effects of Nb ₂ O ₅ promoter on Ru/Al ₂ O ₃ for an aqueous-phase hydrodeoxygenation of glycerol to hydrocarbons. <i>Applied Catalysis A: General</i> , 2018 , 551, 49-62	5.1	12
29	Rational design of epoxy/ ZIF-8 nanocomposites for enhanced suppression of copper ion migration. <i>Polymer</i> , 2018 , 150, 159-168	3.9	12
28	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
27	Fine-sized Pt nanoparticles dispersed on PdPt bimetallic nanocrystals with non-covalently functionalized graphene toward synergistic effects on the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2017 , 257, 412-422	6.7	11
26	Computational Design of Functional Amyloid Materials with Cesium Binding, Deposition, and Capture Properties. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7555-7568	3.4	10
25	Self-diffusion of pure and mixed gases in mixed-linker zeolitic imidazolate framework-7-8 by high field diffusion NMR. <i>Microporous and Mesoporous Materials</i> , 2019 , 288,	5.3	10
24	Propylene-Selective Thin Zeolitic Imidazolate Framework Membranes on Ceramic Tubes by Microwave Seeding and Solvothermal Secondary Growth. <i>Crystals</i> , 2018 , 8, 373	2.3	10
23	Transforming polymer hollow fiber membrane modules to mixed-matrix hollow fiber membrane modules for propylene/propane separation. <i>Journal of Membrane Science</i> , 2020 , 612, 118429	9.6	9
22	Super-hierarchical Ni/porous-Ni/V ₂ O ₅ nanocomposites. <i>RSC Advances</i> , 2017 , 7, 40383-40391	3.7	9
21	Nano-gate opening pressures for the adsorption of isobutane, n-butane, propane, and propylene gases on bimetallic Co-Zn based zeolitic imidazolate frameworks. <i>Dalton Transactions</i> , 2019 , 48, 4685-4693	4.3	8
20	Flow synthesis of polycrystalline ZIF-8 membranes on polyvinylidene fluoride hollow fibers for recovery of hydrogen and propylene. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 88, 319-327	6.3	8
19	Delayed Linker Addition (DLA) Synthesis for Hybrid SOD ZIFs with Unsubstituted Imidazolate Linkers for Propylene/Propane and n-Butane/i-Butane Separations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10103-10111	16.4	8

18	Highly H ₂ O permeable ionic liquid encapsulated metal-organic framework membranes for energy-efficient air-dehumidification. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23645-23653	13	7
17	Zeolitic imidazolate framework membranes for gas separations: Current state-of-the-art, challenges, and opportunities. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 98, 17-41	6.3	7
16	Continuous synthesis of high quality metal-organic framework HKUST-1 crystals and composites via aerosol-assisted synthesis. <i>Polyhedron</i> , 2018 , 153, 226-233	2.7	6
15	Adsorption of Carbon Dioxide, Methane, and Nitrogen Gases onto ZIF Compounds with Zinc, Cobalt, and Zinc/Cobalt Metal Centers. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-11	3.2	6
14	Rapid Thermal Processing of Mesoporous Silica Films: A Simple Method to Fabricate Films Micrometers Thick for Microelectromechanical Systems (MEMS) Applications. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 8933-8937	3.9	5
13	Effects of metal-organic framework-derived iron carbide phases for CO hydrogenation activity to hydrocarbons. <i>Fuel</i> , 2020 , 281, 118779	7.1	5
12	Influence of doped metal center on morphology and pore structure of ZIF-8. <i>MRS Communications</i> , 2019 , 9, 288-291	2.7	5
11	Structure of a cyclohexane sorption complex of partially dehydrated, fully Mn ²⁺ -exchanged zeolite Y (FAU, Si/Al = 1.56). <i>Microporous and Mesoporous Materials</i> , 2018 , 264, 139-146	5.3	3
10	Time-Dependent Ni ²⁺ -Ion Exchange in Zeolites Y (FAU, Si/Al = 1.56) and Their Single-Crystal Structures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28563-28574	3.8	3
9	Recent Progress on Metal-Organic Framework Membranes for Gas Separations: Conventional Synthesis vs. Microwave-Assisted Synthesis. <i>Membrane Journal</i> , 2017 , 27, 1-42	0.2	3
8	Delayed Linker Addition (DLA) Synthesis for Hybrid SOD ZIFs with Unsubstituted Imidazolate Linkers for Propylene/Propane and n-Butane/i-Butane Separations. <i>Angewandte Chemie</i> , 2021 , 133, 10191-10199	3.6	3
7	Fabrication of Thin Metal-Organic Framework MOF Films on Metal-Ion-crosslinked GO-modified Supports. <i>MRS Advances</i> , 2017 , 2, 2497-2504	0.7	1
6	Crystallographic Study of Water Distribution, Dehydration, Rehydration, Demethylation, and Decomposition Processes in Zeolitic Imidazolate Framework ZIF-8. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31032-31042	3.8	1
5	Influence of 2-ethylimidazole linker-doping in ZIF-8 crystals on intracrystalline self-diffusion of gas molecules by high field diffusion NMR. <i>Microporous and Mesoporous Materials</i> , 2021 , 315, 110897	5.3	1
4	Metal-organic framework membranes: Unprecedented opportunities for gas separations. <i>AIChE Journal</i> , 2021 , 67, e17258	3.6	1
3	Enhancing air-dehumidification performance of polyimide membranes by generating hydrophilic Poly(amic acid) domains using partial hydrolysis. <i>Journal of Membrane Science</i> , 2021 , 621, 119006	9.6	1
2	Enhancing the propylene/propane separation performances of ZIF-8 membranes by post-synthetic surface polymerization. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1940-1947	13	0
1	Metal-organic framework membranes: Unprecedented opportunities for gas separations. <i>AIChE Journal</i> , 2021 , 67, e17258	3.6	

