

Rajamani Krishna

List of Publications by Year in descending order

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365
papers

36,085
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3288

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all docs

375
docs citations

375
times ranked

19453
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermostable calcium-based metal-organic framework for efficient capture and separation of acetylene from ternary mixture. Separation and Purification Technology, 2024, 329, 125167.	8.1	2
2	Optimizing the cask effect in multicomponent natural gas purification to provide high methane productivity. AIChE Journal, 2024, 70, .	3.6	4
3	Porous materials with suitable pore size and dual-functional sites for benchmark one-step ethylene purification. AIChE Journal, 2024, 70, .	3.6	0
4	A stable ultramicroporous Cd(II)-MOF with accessible oxygen sites for efficient separation of light hydrocarbons with high methane production. Separation and Purification Technology, 2024, 334, 125987.	8.1	6
5	Leveraging Diffusion Kinetics to Reverse Propane/Propylene Adsorption in Zeolitic Imidazolate Framework-8. ACS Nano, 2024, 18, 3614-3626.	15.3	3
6	Fundamental Insights into Intracrystalline Diffusional Influences on Mixture Separations in Fixed Bed Adsorbers. , 2024, 1, 53-66.		1
7	Hydrogen bond unlocking-driven pore structure control for shifting multi-component gas separation function. Nature Communications, 2024, 15, .	13.2	5
8	Fine-tuning the pore environment of isorecticular metal-organic frameworks through installing functional sites for boosting C ₂ H ₆ /C ₂ H ₄ separation. Chemical Engineering Journal, 2024, 485, 149587.	13.0	1
9	Scalable Synthesis of Robust MOF for Challenging Ethylene Purification and Propylene Recovery with Record Productivity. Angewandte Chemie, 2024, 136, .	2.1	0
10	Scalable Synthesis of Robust MOF for Challenging Ethylene Purification and Propylene Recovery with Record Productivity. Angewandte Chemie - International Edition, 2024, 63, .	14.8	2
11	Electro-field alignment in a novel metal-organic framework for benchmark separation of ethylene from a ternary gas mixture. AIChE Journal, 2024, 70, .	3.6	0
12	Fundamental insights into the variety of factors that influence water/alcohol membrane permeation selectivity. Journal of Membrane Science, 2024, 698, 122635.	8.3	1
13	A Layered Hydrogen-Bonded Organic Framework with C ₃ H ₆ -Preferred Pores for Efficient One-Step Purification of Methanol-to-Olefins (MTO) Products. , 2024, 6, 1388-1395.		1
14	Direct Ethylene Purification from Cracking Gas via a Metal-Organic Framework Through Pore Geometry Fitting. Engineering, 2024, , .	7.3	3
15	Engineering pore limiting diameter of metal-organic frameworks for benchmark separation of mono- and di-branched hexane isomers. Chemical Engineering Journal, 2024, 488, 150833.	13.0	2
16	Fine-regulation of gradient gate-opening in nanoporous crystals for sieving separation of ternary C ₃ hydrocarbons. Chemical Science, 2024, 15, 6583-6588.	7.8	0
17	Efficient separation of methanol-to-olefins products using a metal-organic framework with supramolecular binding sites. Chemical Engineering Journal, 2024, 493, 152442.	13.0	0
18	Selective krypton uptake through trap confinement, formation of Kr ₂ dimer, and light response in a photochromic and radiation-resistant thorium-diarylethene-framework. Chemical Engineering Journal, 2023, 451, 139004.	13.0	7

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19	Insights into the thermodynamic&kinetic synergistic separation of propyne/propylene in anion pillared cage MOFs with entropy&enthalpy balanced adsorption sites. <i>Chemical Science</i> , 2023, 14, 298-309.	7.8	22
20	Benchmark single-step ethylene purification from ternary mixtures by a customized fluorinated anion-embedded MOF. <i>Nature Communications</i> , 2023, 14, .	13.2	87
21	Highly scalable acid-base resistant Cu-Prussian blue metal-organic framework for C ₂ H ₂ /C ₂ H ₄ , biogas, and flue gas separations. <i>Chemical Engineering Journal</i> , 2023, 460, 141795.	13.0	18
22	Synergistic and Antisynergistic Intracrystalline Diffusional Influences on Mixture Separations in Fixed-Bed Adsorbers. , 2023, 1, 83-93.		12
23	Rational Construction of Ultrahigh Thermal Stable MOF for Efficient Separation of MTO Products and Natural Gas. , 2023, 5, 1091-1099.		30
24	A separation MOF with O/N active sites in nonpolar pore for One-step C ₂ H ₄ purification from C ₂ H ₆ or C ₃ H ₆ mixtures. <i>Chemical Engineering Journal</i> , 2023, 466, 143056.	13.0	12
25	Structural flexibility in cationic metal&organic framework for boosting ReO ₄ ⁻ capture. <i>Chemical Engineering Journal</i> , 2023, 466, 143139.	13.0	1
26	Ultramicroporous Metal&Organic Framework with Inert Pore Surfaces for Inversed Separation of Ethylene from C ₂ Hydrocarbons Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 23538-23545.	8.3	8
27	Highly Productive C ₃ H ₄ /C ₃ H ₆ Trace Separation by a Packing Polymorph of a Layered Hybrid Ultramicroporous Material. <i>Journal of the American Chemical Society</i> , 2023, 145, 11837-11845.	14.6	21
28	Exploiting Adsorption/Diffusion Synergy in MFI&Catalyzed Hexane Isomerization Reactor. <i>Chemie-Ingenieur-Technik</i> , 2023, 95, 1794-1799.	0.9	1
29	Immobilization of the Polar Group into an Ultramicroporous Metal&Organic Framework Enabling Benchmark Inverse Selective CO ₂ /C ₂ H ₂ Separation with Record C ₂ H ₂ Production. <i>Journal of the American Chemical Society</i> , 2023, 145, 13901-13911.	14.6	51
30	Induced&Fit&Identification in a Rigid Metal&Organic Framework for ppm&Level CO ₂ Removal and Ultra&Pure CO Enrichment. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.8	4
31	Induced&Fit&Identification in a Rigid Metal&Organic Framework for ppm&Level CO ₂ Removal and Ultra&Pure CO Enrichment. <i>Angewandte Chemie</i> , 2023, 135, .	2.1	0
32	Efficient Xe/Kr separation in fluorinated pillar-caged metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2023, 357, 112631.	4.5	8
33	A robust perylene diimide-based zirconium metal&organic framework for preferential adsorption of ethane over ethylene. <i>Separation and Purification Technology</i> , 2023, 320, 124109.	8.1	8
34	Fine-tuning channel structure and surface chemistry of stable bismuth-organic frameworks for efficient C ₂ H ₄ purification through reversely trapping CO ₂ and C ₂ H ₂ . <i>Chemical Engineering Journal</i> , 2023, 471, 144533.	13.0	5
35	Minute and Large-Scale Synthesis of Covalent-Organic Frameworks in Water at Room Temperature by a Two-Step Dissolution&Precipitation Method. <i>Chemistry of Materials</i> , 2023, 35, 5648-5656.	7.1	6
36	An ethynyl-modified interpenetrated metal&organic framework for highly efficient selective gas adsorption. <i>Dalton Transactions</i> , 2023, 52, 15101-15106.	3.4	1

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37	Customized pore fluorination in a microporous metal-organic framework for efficient ethane/ethylene separation. Separation and Purification Technology, 2023, 327, 124967.	8.1	4
38	Frontispiz: Inducedâ€Fitâ€Identification in a Rigid Metalâ€Organic Framework for ppmâ€Level CO ₂ Removal and Ultraâ€Pure CO Enrichment. Angewandte Chemie, 2023, 135, .	2.1	0
39	Frontispiece: Inducedâ€Fitâ€Identification in a Rigid Metalâ€Organic Framework for ppmâ€Level CO ₂ Removal and Ultraâ€Pure CO Enrichment. Angewandte Chemie - International Edition, 2023, 62, .	14.8	0
40	Surface engineering on a microporous metalâ€organic framework to boost ethane/ethylene separation under humid conditions. Chemical Science, 2023, 14, 11890-11895.	7.8	4
41	Using the spreading pressure to inter-relate the characteristics of unary, binary and ternary mixture permeation across microporous membranes. Journal of Membrane Science, 2022, 643, 120049.	8.3	6
42	Highly selective gas separation by two isostructural boron cluster pillared MOFs. Separation and Purification Technology, 2022, 283, 120220.	8.1	36
43	Collaborative pore partition and pore surface fluorination within a metalâ€organic framework for high-performance C ₂ H ₂ /CO ₂ separation. Chemical Engineering Journal, 2022, 432, 134433.	13.0	45
44	Comprehensive Pore Tuning in an Ultrastable Fluorinated Anion Crossâ€Linked Cageâ€Like MOF for Simultaneous Benchmark Propyne Recovery and Propylene Purification. Angewandte Chemie - International Edition, 2022, 61, .	14.8	67
45	Comprehensive Pore Tuning in an Ultrastable Fluorinated Anion Crossâ€Linked Cageâ€Like MOF for Simultaneous Benchmark Propyne Recovery and Propylene Purification. Angewandte Chemie, 2022, 134, .	2.1	7
46	Highlighting the Anti-Synergy between Adsorption and Diffusion in Cation-Exchanged Faujasite Zeolites. ACS Omega, 2022, 7, 13050-13056.	3.6	11
47	Metalâ€Organic Framework Based Hydrogen-Bonding Nanotrap for Efficient Acetylene Storage and Separation. Journal of the American Chemical Society, 2022, 144, 1681-1689.	14.6	202
48	Titaniumâ€Oxo Cluster Assisted Fabrication of a Defectâ€Rich Tiâ€MOF Membrane Showing Versatile Gasâ€Separation Performance. Angewandte Chemie, 2022, 134, .	2.1	4
49	Titaniumâ€Oxo Cluster Assisted Fabrication of a Defectâ€Rich Tiâ€MOF Membrane Showing Versatile Gasâ€Separation Performance. Angewandte Chemie - International Edition, 2022, 61, .	14.8	22
50	Pore-Nanospace Engineering of Mixed-Ligand Metalâ€Organic Frameworks for High Adsorption of Hydrofluorocarbons and Hydrochlorofluorocarbons. Chemistry of Materials, 2022, 34, 5116-5124.	7.1	15
51	Two-Dimensional Metalâ€Organic Framework with Ultrahigh Water Stability for Separation of Acetylene from Carbon Dioxide and Ethylene. ACS Applied Materials & Interfaces, 2022, 14, 33429-33437.	8.3	31
52	Oneâ€Step Ethylene Purification from Ternary Mixtures in a Metalâ€Organic Framework with Customized Pore Chemistry and Shape. Angewandte Chemie, 2022, 134, .	2.1	5
53	Efficient Separation of Trace SO ₂ from SO ₂ /CO ₂ /N ₂ Mixtures in a Th-Based MOF. Inorganic Chemistry, 2022, 61, 11879-11885.	4.2	13
54	Quasi-Orthogonal Configuration of Propylene within a Scalable Metalâ€Organic Framework Enables Its Purification from Quinary Propane Dehydrogenation Byproducts. ACS Central Science, 2022, 8, 1159-1168.	12.3	20

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55	Creating High-Number Defect Sites through a Bimetal Approach in Metal-Organic Frameworks for Boosting Trace SO ₂ Removal. <i>Inorganic Chemistry</i> , 2022, 61, 16986-16991.	4.2	5
56	A robust heterometallic ultramicroporous MOF with ultrahigh selectivity for propyne/propylene separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2850-2856.	10.5	28
57	High Adsorption Capacity and Selectivity of SO ₂ over CO ₂ in a Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2021, 60, 4-8.	4.2	27
58	Ultrafine tuning of the pore size in zeolite A for efficient propyne removal from propylene. <i>Chinese Journal of Chemical Engineering</i> , 2021, 37, 217-221.	3.5	7
59	Constructing a robust gigantic drum-like hydrophobic [Co ₂₄ U ₆] nanocage in a metal-organic framework for high-performance SO ₂ removal in humid conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4075-4081.	10.5	10
60	Robust 4d-5f Bimetal-Organic Framework for Efficient Removal of Trace SO ₂ from SO ₂ /CO ₂ and SO ₂ /CO ₂ /N ₂ Mixtures. <i>Inorganic Chemistry</i> , 2021, 60, 1310-1314.	4.2	18
61	A Robust Cage-Based Metal-Organic Framework Showing Ultrahigh SO ₂ Uptake for Efficient Removal of Trace SO ₂ from SO ₂ /CO ₂ and SO ₂ /CO ₂ /N ₂ Mixtures. <i>Inorganic Chemistry</i> , 2021, 60, 3447-3451.	4.2	25
62	A stable metal-organic framework with well-matched pore cavity for efficient acetylene separation. <i>AIChE Journal</i> , 2021, 67, e17152.	3.6	24
63	Synergistically enhance confined diffusion by continuum intersecting channels in zeolites. <i>Science Advances</i> , 2021, 7, .	10.9	20
64	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10304-10310.	14.8	124
65	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie</i> , 2021, 133, 10392-10398.	2.1	30
66	Thermal resistance effect on anomalous diffusion of molecules under confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	27
67	Realization of Ethylene Production from Its Quaternary Mixture through Metal-Organic Framework Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22514-22520.	8.3	15
68	Optimal Pore Chemistry in an Ultramicroporous Metal-Organic Framework for Benchmark Inverse CO ₂ /C ₂ H ₂ Separation. <i>Angewandte Chemie</i> , 2021, 133, 17335-17341.	2.1	16
69	Robust metal-organic framework with multiple traps for trace Xe/Kr separation. <i>Science Bulletin</i> , 2021, 66, 1073-1079.	11.1	62
70	How Reliable Is the Ideal Adsorbed Solution Theory for the Estimation of Mixture Separation Selectivities in Microporous Crystalline Adsorbents?. <i>ACS Omega</i> , 2021, 6, 15499-15513.	3.6	26
71	Optimal Pore Chemistry in an Ultramicroporous Metal-Organic Framework for Benchmark Inverse CO ₂ /C ₂ H ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17198-17204.	14.8	109
72	Propane-Trapping Ultramicroporous Metal-Organic Framework in the Low-Pressure Area toward the Purification of Propylene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35990-35996.	8.3	40

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73	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. <i>Angewandte Chemie</i> , 2021, 133, 23047.	2.1	19
74	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22865-22870.	14.8	110
75	A robust metal-organic framework showing two distinct pores for effective separation of xenon and krypton. <i>Microporous and Mesoporous Materials</i> , 2021, 326, 111350.	4.5	8
76	Efficient propyne/propadiene separation by microporous crystalline physisorbents. <i>Nature Communications</i> , 2021, 12, 5768.	13.2	29
77	Efficient Purification of Ethylene from C ₂ Hydrocarbons with an C ₂ H ₆ /C ₂ H ₂ -Selective Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 962-969.	8.3	76
78	Synthesis of Cu(I) doped mesoporous carbon for selective capture of ethylene from reaction products of oxidative coupling of methane (OCM). <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111488.	4.5	10
79	Separation of propylene from propane and nitrogen by Ag(I)-doped nanoporous carbons obtained from hydrothermally treated lignin. <i>Diamond and Related Materials</i> , 2021, 121, 108750.	4.0	3
80	Constructing redox-active microporous hydrogen-bonded organic framework by imide-functionalization: Photochromism, electrochromism, and selective adsorption of C ₂ H ₂ over CO ₂ . <i>Chemical Engineering Journal</i> , 2020, 383, 123117.	13.0	68
81	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4396-4400.	14.8	326
82	Microporous Metal-Organic Framework with a Completely Reversed Adsorption Relationship for C ₂ Hydrocarbons at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6105-6111.	8.3	66
83	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 633-640.	14.6	206
84	Metrics for Evaluation and Screening of Metal-Organic Frameworks for Applications in Mixture Separations. <i>ACS Omega</i> , 2020, 5, 16987-17004.	3.6	64
85	Boosting Selective Adsorption of Xe over Kr by Double-Accessible Open-Metal Site in Metal-Organic Framework: Experimental and Theoretical Research. <i>Inorganic Chemistry</i> , 2020, 59, 11793-11800.	4.2	34
86	Water/Alcohol Mixture Adsorption in Hydrophobic Materials: Enhanced Water Ingress Caused by Hydrogen Bonding. <i>ACS Omega</i> , 2020, 5, 28393-28402.	3.6	20
87	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22756-22762.	14.8	188
88	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie</i> , 2020, 132, 22944-22950.	2.1	33
89	Using Molecular Simulations for Elucidation of Thermodynamic Nonidealities in Adsorption of CO ₂ -Containing Mixtures in NaX Zeolite. <i>ACS Omega</i> , 2020, 5, 20535-20542.	3.6	12
90	Using Molecular Simulations to Unravel the Benefits of Characterizing Mixture Permeation in Microporous Membranes in Terms of the Spreading Pressure. <i>ACS Omega</i> , 2020, 5, 32769-32780.	3.6	6

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91	Simultaneous interlayer and intralayer space control in two-dimensional metal-organic frameworks for acetylene/ethylene separation. <i>Nature Communications</i> , 2020, 11, 6259.	13.2	95
92	A Chemically Stable Hofmann-Type Metal-Organic Framework with Sandwich-Like Binding Sites for Benchmark Acetylene Capture. <i>Advanced Materials</i> , 2020, 32, e1908275.	24.3	253
93	Dependence of zeolite topology on alkane diffusion inside diverse channels. <i>AICHE Journal</i> , 2020, 66, e16269.	3.6	24
94	A robust Th-azole framework for highly efficient purification of C ₂ H ₄ from a C ₂ H ₄ /C ₂ H ₂ /C ₂ H ₆ mixture. <i>Nature Communications</i> , 2020, 11, 3163.	13.2	215
95	Using transient breakthrough experiments for screening of adsorbents for separation of C ₂ H ₄ /CO ₂ mixtures. <i>Separation and Purification Technology</i> , 2020, 241, 116706.	8.1	23
96	Separation of ethane-ethylene and propane-propylene by Ag(I) doped and sulfurized microporous carbon. <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110099.	4.5	41
97	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie</i> , 2020, 132, 17817-17822.	2.1	28
98	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17664-17669.	14.8	120
99	Highlighting Thermodynamic Coupling Effects in the Immersion Precipitation Process for Formation of Polymeric Membranes. <i>ACS Omega</i> , 2020, 5, 2819-2828.	3.6	1
100	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie</i> , 2020, 132, 4426-4430.	2.1	46
101	Pore-Space-Partition-Enabled Exceptional Ethane Uptake and Ethane-Selective Ethane-Ethylene Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 2222-2227.	14.6	218
102	Understanding How Ligand Functionalization Influences CO ₂ and N ₂ Adsorption in a Sodalite Metal-Organic Framework. <i>Chemistry of Materials</i> , 2020, 32, 1526-1536.	7.1	19
103	Elucidation of Selectivity Reversals for Binary Mixture Adsorption in Microporous Adsorbents. <i>ACS Omega</i> , 2020, 5, 9031-9040.	3.6	17
104	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. <i>Journal of the American Chemical Society</i> , 2020, 142, 17795-17801.	14.6	203
105	A multifunctional double walled zirconium metal-organic framework: high performance for CO ₂ adsorption and separation and detecting explosives in the aqueous phase. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17106-17112.	10.5	25
106	Thermodynamically Consistent Methodology for Estimation of Diffusivities of Mixtures of Guest Molecules in Microporous Materials. <i>ACS Omega</i> , 2019, 4, 13520-13529.	3.6	13
107	Maxwell-Stefan modelling of mixture desorption kinetics in microporous crystalline materials. <i>Separation and Purification Technology</i> , 2019, 229, 115790.	8.1	5
108	Enhanced Gas Uptake in a Microporous Metal-Organic Framework via a Sorbate Induced-Fit Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 17703-17712.	14.6	158

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109	Enhancing C ₂ H ₂ /C ₂ H ₄ separation by incorporating low-content sodium in covalent organic frameworks. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2921-2926.	6.0	24
110	Highlighting Thermodynamic Coupling Effects in Alcohol/Water Pervaporation across Polymeric Membranes. <i>ACS Omega</i> , 2019, 4, 15255-15264.	3.6	8
111	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3128-3134.	10.5	137
112	Elucidating Traffic Junction Effects in MFI Zeolite Using Kinetic Monte Carlo Simulations. <i>ACS Omega</i> , 2019, 4, 10761-10766.	3.6	5
113	Highlighting non-idealities in C ₂ H ₄ /CO ₂ mixture adsorption in 5A zeolite. <i>Separation and Purification Technology</i> , 2019, 227, 115730.	8.1	20
114	Thermodynamic Insights into the Characteristics of Unary and Mixture Permeances in Microporous Membranes. <i>ACS Omega</i> , 2019, 4, 9512-9521.	3.6	10
115	Dual Strategic Approach to Prepare Defluorinated Triazole-Embedded Covalent Triazine Frameworks with High Gas Uptake Performance. <i>Chemistry of Materials</i> , 2019, 31, 3929-3940.	7.1	37
116	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie</i> , 2019, 131, 10315-10320.	2.1	16
117	Induced Fit of C ₂ H ₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. <i>Angewandte Chemie</i> , 2019, 131, 8603-8607.	2.1	52
118	Robust Microporous Metal-Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10209-10214.	14.8	71
119	Induced Fit of C ₂ H ₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8515-8519.	14.8	217
120	Water-Stable Europium 1,3,6,8-Tetrakis(4-carboxylphenyl)pyrene Framework for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Inorganic Chemistry</i> , 2019, 58, 5089-5095.	4.2	76
121	Pore Space Partition within a Metal-Organic Framework for Highly Efficient C ₂ H ₂ /CO ₂ Separation. <i>Journal of the American Chemical Society</i> , 2019, 141, 4130-4136.	14.6	365
122	Highlighting the Influence of Thermodynamic Coupling on Kinetic Separations with Microporous Crystalline Materials. <i>ACS Omega</i> , 2019, 4, 3409-3419.	3.6	15
123	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4897-4902.	6.9	71
124	Elucidation and characterization of entropy effects in mixture separations with micro-porous crystalline adsorbents. <i>Separation and Purification Technology</i> , 2019, 215, 227-241.	8.1	21
125	Diffusing uphill with James Clerk Maxwell and Josef Stefan. <i>Chemical Engineering Science</i> , 2019, 195, 851-880.	4.0	34
126	Newly designed 1,2,3-triazole functionalized covalent triazine frameworks with exceptionally high uptake capacity for both CO ₂ and H ₂ . <i>Journal of Materials Chemistry A</i> , 2019, 7, 1055-1068.	10.5	59

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127	Preparation of benzodiiimidazole-containing covalent triazine frameworks for enhanced selective CO ₂ capture and separation. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 213-222.	4.5	16
128	Dynamic Adsorption of CO ₂ /N ₂ on Cation-Exchanged Chabazite SSZ-13: A Breakthrough Analysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14287-14291.	8.3	33
129	Adjusting the proportions of extra-framework K ⁺ and Cs ⁺ cations to construct a "molecular gate" on ZK-5 for CO ₂ removal. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 50-57.	4.5	19
130	The Maxwell-Stefan description of mixture permeation across nanoporous graphene membranes. <i>Chemical Engineering Research and Design</i> , 2018, 133, 316-325.	5.7	16
131	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. <i>Chemical Engineering Journal</i> , 2018, 346, 489-496.	13.0	89
132	Beyond Crystal Engineering: Significant Enhancement of C ₂ H ₂ /CO ₂ Separation by Constructing Composite Material. <i>Inorganic Chemistry</i> , 2018, 57, 3679-3682.	4.2	36
133	Highlighting the origins and consequences of thermodynamic non-idealities in mixture separations using zeolites and metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2018, 267, 274-292.	4.5	29
134	Using Molecular Dynamics simulations for elucidation of molecular traffic in ordered crystalline microporous materials. <i>Microporous and Mesoporous Materials</i> , 2018, 258, 151-169.	4.5	17
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