Rajamani Krishna

List of Publications by Year
in descending order

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399 papers	45,013 citations	950 115 h-index	2506 196 g-index
408 all docs	408 docs citations	408 times ranked	19528 citing authors

#	Article	IF	Citations
1	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.	4.1	6
2	Highly selective gas separation by two isostructural boron cluster pillared MOFs. Separation and Purification Technology, 2022, 283, 120220.	3.9	32
3	Collaborative pore partition and pore surface fluorination within a metalâ€“organic framework for high-performance C2H2/CO2 separation. Chemical Engineering Journal, 2022, 432, 134433.	6.6	39
4	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, .	7.2	58
5	Highlighting the Anti-Synergy between Adsorption and Diffusion in Cation-Exchanged Faujasite Zeolites. ACS Omega, 2022, 7, 13050-13056.	1.6	8
6	Metalâ€“Organic Framework Based Hydrogen-Bonding Nanotrap for Efficient Acetylene Storage and Separation. Journal of the American Chemical Society, 2022, 144, 1681-1689.	6.6	172
7	Titaniumâ€Oxo Cluster Assisted Fabrication of a Defectâ€Rich Tiâ€MOF Membrane Showing Versatile Gasâ€Separation Performance. Angewandte Chemie, 2022, 134, .	1.6	4
8	Titaniumâ€Oxo Cluster Assisted Fabrication of a Defectâ€Rich Tiâ€MOF Membrane Showing Versatile Gasâ€Separation Performance. Angewandte Chemie - International Edition, 2022, 61, .	7.2	17
9	Pore-Nanospace Engineering of Mixed-Ligand Metalâ€“Organic Frameworks for High Adsorption of Hydrofluorocarbons and Hydrochlorofluorocarbons. Chemistry of Materials, 2022, 34, 5116-5124.	3.2	11
10	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.	4.0	29
11	Oneâ€Step Ethylene Purification from Ternary Mixtures in a Metalâ€“Organic Framework with Customized Pore Chemistry and Shape. Angewandte Chemie, 2022, 134, .	1.6	4
12	A robust heterometallic ultramicroporous MOF with ultrahigh selectivity for propyne/propylene separation. Journal of Materials Chemistry A, 2021, 9, 2850-2856.	5.2	22
13	High Adsorption Capacity and Selectivity of SO₂ over CO₂ in a Metalâ€“Organic Framework. Inorganic Chemistry, 2021, 60, 4-8.	1.9	22
14	Ultrafine tuning of the pore size in zeolite A for efficient propyne removal from propylene. Chinese Journal of Chemical Engineering, 2021, 37, 217-221.	1.7	5
15	Constructing a robust gigantic drum-like hydrophobic [Co24U6] nanocage in a metalâ€“organic framework for high-performance SO2 removal in humid conditions. Journal of Materials Chemistry A, 2021, 9, 4075-4081.	5.2	9
16	Robust 4dâ€“5f Bimetalâ€“Organic Framework for Efficient Removal of Trace SO₂ from SO₂/CO₂ and SO₂/CO₂/N₂ Mixtures. Inorganic Chemistry, 2021, 60, 1310-1314.	1.9	14
17	A Robust Cage-Based Metalâ€“Organic Framework Showing Ultrahigh SO₂ Uptake for Efficient Removal of Trace SO₂ from SO₂/CO₂ and SO₂/CO₂/N₂ Mixtures. Inorganic Chemistry, 2021, 60, 3447-3451.	1.9	19
18	A stable metalâ€“organic framework with wellâ€matched pore cavity for efficient acetylene separation. AIChE Journal, 2021, 67, e17152.	1.8	20

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19	Synergistically enhance confined diffusion by continuum intersecting channels in zeolites. Science Advances, 2021, 7, .	4.7	17
20	A Rodâ€Packing Hydrogenâ€Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. Angewandte Chemie - International Edition, 2021, 60, 10304-10310.	7.2	104
21	A Rodâ€Packing Hydrogenâ€Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. Angewandte Chemie, 2021, 133, 10392-10398.	1.6	29
22	Thermal resistance effect on anomalous diffusion of molecules under confinement. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
23	Realization of Ethylene Production from Its Quaternary Mixture through Metalâ€“Organic Framework Materials. ACS Applied Materials & Interfaces, 2021, 13, 22514-22520.	4.0	13
24	Optimal Pore Chemistry in an Ultramicroporous Metalâ€“Organic Framework for Benchmark Inverse CO₂/C₂H₂ Separation. Angewandte Chemie, 2021, 133, 17335-17341.	1.6	16
25	Robust metalâ€“organic framework with multiple traps for trace Xe/Kr separation. Science Bulletin, 2021, 66, 1073-1079.	4.3	55
26	How Reliable Is the Ideal Adsorbed Solution Theory for the Estimation of Mixture Separation Selectivities in Microporous Crystalline Adsorbents?. ACS Omega, 2021, 6, 15499-15513.	1.6	19
27	Optimal Pore Chemistry in an Ultramicroporous Metalâ€“Organic Framework for Benchmark Inverse CO₂/C₂H₂ Separation. Angewandte Chemie - International Edition, 2021, 60, 17198-17204.	7.2	93
28	Propane-Trapping Ultramicroporous Metalâ€“Organic Framework in the Low-Pressure Area toward the Purification of Propylene. ACS Applied Materials & Interfaces, 2021, 13, 35990-35996.	4.0	39
29	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. Angewandte Chemie, 2021, 133, 23047.	1.6	19
30	Interpenetration Symmetry Control Within Ultramicroporous Robust Boron Cluster Hybrid MOFs for Benchmark Purification of Acetylene from Carbon Dioxide. Angewandte Chemie - International Edition, 2021, 60, 22865-22870.	7.2	103
31	A robust metal-organic framework showing two distinct pores for effective separation of xenon and krypton. Microporous and Mesoporous Materials, 2021, 326, 111350.	2.2	7
32	Efficient propyne/propadiene separation by microporous crystalline physiadsorbents. Nature Communications, 2021, 12, 5768.	5.8	26
33	Efficient Purification of Ethylene from C₂ Hydrocarbons with an C₂H₆/C₂H₂-Selective Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2021, 13, 962-969.	4.0	69
34	Synthesis of Cu(I) doped mesoporous carbon for selective capture of ethylene from reaction products of oxidative coupling of methane (OCM). Microporous and Mesoporous Materials, 2021, 328, 111488.	2.2	8
35	Separation of propylene from propane and nitrogen by Ag(I)-doped nanoporous carbons obtained from hydrothermally treated lignin. Diamond and Related Materials, 2021, 121, 108750.	1.8	1
36	Constructing redox-active microporous hydrogen-bonded organic framework by imide-functionalization: Photochromism, electrochromism, and selective adsorption of C2H2 over CO2. Chemical Engineering Journal, 2020, 383, 123117.	6.6	63

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37	Mixed Metalâ€“Organic Framework with Multiple Binding Sites for Efficient C₂H₂/CO₂Separation. Angewandte Chemie - International Edition, 2020, 59, 4396-4400.	7.2	313
38	Microporous Metalâ€“Organic Framework with a Completely Reversed Adsorption Relationship for C₂ Hydrocarbons at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 6105-6111.	4.0	63
39	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2020, 142, 633-640.	6.6	183
40	Metrics for Evaluation and Screening of Metalâ€“Organic Frameworks for Applications in Mixture Separations. ACS Omega, 2020, 5, 16987-17004.	1.6	56
41	Boosting Selective Adsorption of Xe over Kr by Double-Accessible Open-Metal Site in Metalâ€“Organic Framework: Experimental and Theoretical Research. Inorganic Chemistry, 2020, 59, 11793-11800.	1.9	34
42	Water/Alcohol Mixture Adsorption in Hydrophobic Materials: Enhanced Water Ingress Caused by Hydrogen Bonding. ACS Omega, 2020, 5, 28393-28402.	1.6	18
43	Tuning Gateâ€Opening of a Flexible Metalâ€“Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie - International Edition, 2020, 59, 22756-22762.	7.2	173
44	Tuning Gateâ€Opening of a Flexible Metalâ€“Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie, 2020, 132, 22944-22950.	1.6	33
45	Using Molecular Simulations for Elucidation of Thermodynamic Nonidealities in Adsorption of CO₂-Containing Mixtures in NaX Zeolite. ACS Omega, 2020, 5, 20535-20542.	1.6	10
46	Using Molecular Simulations to Unravel the Benefits of Characterizing Mixture Permeation in Microporous Membranes in Terms of the Spreading Pressure. ACS Omega, 2020, 5, 32769-32780.	1.6	4
47	Simultaneous interlayer and intralayer space control in two-dimensional metalâˆ’organic frameworks for acetylene/ethylene separation. Nature Communications, 2020, 11, 6259.	5.8	85
48	A Chemically Stable Hofmannâ€Type Metalâˆ’Organic Framework with Sandwichâ€Like Binding Sites for Benchmark Acetylene Capture. Advanced Materials, 2020, 32, e1908275.	11.1	236
49	Dependence of zeolite topology on alkane diffusion inside <scp> diverse channels</scp>. AIChE Journal, 2020, 66, e16269.	1.8	22
50	A robust Th-azole framework for highly efficient purification of C2H4 from a C2H4/C2H2/C2H6 mixture. Nature Communications, 2020, 11, 3163.	5.8	192
51	Using transient breakthrough experiments for screening of adsorbents for separation of C2H4/CO2 mixtures. Separation and Purification Technology, 2020, 241, 116706.	3.9	23
52	Separation of ethane-ethylene and propane-propylene by Ag(I) doped and sulfurized microporous carbon. Microporous and Mesoporous Materials, 2020, 299, 110099.	2.2	40
53	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. Angewandte Chemie, 2020, 132, 17817-17822.	1.6	28
54	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. Angewandte Chemie - International Edition, 2020, 59, 17664-17669.	7.2	110

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55	Highlighting Thermodynamic Coupling Effects in the Immersion Precipitation Process for Formation of Polymeric Membranes. ACS Omega, 2020, 5, 2819-2828.	1.6	1
56	Mixed Metalâ€"Organic Framework with Multiple Binding Sites for Efficient C 2 H 2 /CO 2 Separation. Angewandte Chemie, 2020, 132, 4426-4430.	1.6	46
57	Pore-Space-Partition-Enabled Exceptional Ethane Uptake and Ethane-Selective Ethaneâ€"Ethylene Separation. Journal of the American Chemical Society, 2020, 142, 2222-2227.	6.6	199
58	Understanding How Ligand Functionalization Influences CO2 and N2 Adsorption in a Sodalite Metalâ€"Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	3.2	19
59	Elucidation of Selectivity Reversals for Binary Mixture Adsorption in Microporous Adsorbents. ACS Omega, 2020, 5, 9031-9040.	1.6	14
60	An Ultramicroporous Metalâ€"Organic Framework for High Sieving Separation of Propylene from Propane. Journal of the American Chemical Society, 2020, 142, 17795-17801.	6.6	186
61	A multifunctional double walled zirconium metalâ€"organic framework: high performance for CO₂ adsorption and separation and detecting explosives in the aqueous phase. Journal of Materials Chemistry A, 2020, 8, 17106-17112.	5.2	23
62	Thermodynamically Consistent Methodology for Estimation of Diffusivities of Mixtures of Guest Molecules in Microporous Materials. ACS Omega, 2019, 4, 13520-13529.	1.6	13
63	Maxwell-Stefan modelling of mixture desorption kinetics in microporous crystalline materials. Separation and Purification Technology, 2019, 229, 115790.	3.9	5
64	Enhanced Gas Uptake in a Microporous Metalâ€"Organic Framework <i>via</i> a Sorbate Induced-Fit Mechanism. Journal of the American Chemical Society, 2019, 141, 17703-17712.	6.6	152
65	Enhancing C₂H₂/C₂H₄ separation by incorporating low-content sodium in covalent organic frameworks. Inorganic Chemistry Frontiers, 2019, 6, 2921-2926.	3.0	24
66	Highlighting Thermodynamic Coupling Effects in Alcohol/Water Pervaporation across Polymeric Membranes. ACS Omega, 2019, 4, 15255-15264.	1.6	8
67	A metalâ€"organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO₂ capture. Journal of Materials Chemistry A, 2019, 7, 3128-3134.	5.2	124
68	Elucidating Traffic Junction Effects in MFI Zeolite Using Kinetic Monte Carlo Simulations. ACS Omega, 2019, 4, 10761-10766.	1.6	4
69	Highlighting non-idealities in C2H4/CO2 mixture adsorption in 5A zeolite. Separation and Purification Technology, 2019, 227, 115730.	3.9	19
70	Thermodynamic Insights into the Characteristics of Unary and Mixture Permeances in Microporous Membranes. ACS Omega, 2019, 4, 9512-9521.	1.6	9
71	Dual Strategic Approach to Prepare Defluorinated Triazole-Embedded Covalent Triazine Frameworks with High Gas Uptake Performance. Chemistry of Materials, 2019, 31, 3929-3940.	3.2	36
72	Robust Microporous Metalâ€"Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie, 2019, 131, 10315-10320.	1.6	16

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73	Induced Fit of C₂H₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. Angewandte Chemie, 2019, 131, 8603-8607.	1.6	52
74	Robust Microporous Metalâ€“Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie - International Edition, 2019, 58, 10209-10214.	7.2	69
75	Induced Fit of C₂H₂ in a Flexible MOF Through Cooperative Action of Open Metal Sites. Angewandte Chemie - International Edition, 2019, 58, 8515-8519.	7.2	208
76	Water-Stable Europium 1,3,6,8-Tetrakis(4-carboxylphenyl)pyrene Framework for Efficient C₂H₂/CO₂ Separation. Inorganic Chemistry, 2019, 58, 5089-5095.	1.9	71
77	Pore Space Partition within a Metalâ€“Organic Framework for Highly Efficient C₂H₂/CO₂ Separation. Journal of the American Chemical Society, 2019, 141, 4130-4136.	6.6	338
78	Highlighting the Influence of Thermodynamic Coupling on Kinetic Separations with Microporous Crystalline Materials. ACS Omega, 2019, 4, 3409-3419.	1.6	14
79	Microporous Metalâ€“Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. ACS Sustainable Chemistry and Engineering, 2019, 7, 4897-4902.	3.2	65
80	Elucidation and characterization of entropy effects in mixture separations with micro-porous crystalline adsorbents. Separation and Purification Technology, 2019, 215, 227-241.	3.9	20
81	Diffusing uphill with James Clerk Maxwell and Josef Stefan. Chemical Engineering Science, 2019, 195, 851-880.	1.9	32
82	Newly designed 1,2,3-triazole functionalized covalent triazine frameworks with exceptionally high uptake capacity for both CO₂ and H₂. Journal of Materials Chemistry A, 2019, 7, 1055-1068.	5.2	57
83	Preparation of benzodiimidazole-containing covalent triazine frameworks for enhanced selective CO2 capture and separation. Microporous and Mesoporous Materials, 2019, 276, 213-222.	2.2	15
84	Dynamic Adsorption of CO₂/N₂ on Cation-Exchanged Chabazite SSZ-13: A Breakthrough Analysis. ACS Applied Materials & Interfaces, 2018, 10, 14287-14291.	4.0	27
85	Adjusting the proportions of extra-framework K+ and Cs+ cations to construct a â€œmolecular gateâ€•on ZK-5 for CO2 removal. Microporous and Mesoporous Materials, 2018, 268, 50-57.	2.2	18
86	The Maxwellâ€“Stefan description of mixture permeation across nanoporous graphene membranes. Chemical Engineering Research and Design, 2018, 133, 316-325.	2.7	16
87	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. Chemical Engineering Journal, 2018, 346, 489-496.	6.6	87
88	Beyond Crystal Engineering: Significant Enhancement of C₂H₂/CO₂ Separation by Constructing Composite Material. Inorganic Chemistry, 2018, 57, 3679-3682.	1.9	35
89	Highlighting the origins and consequences of thermodynamic non-idealities in mixture separations using zeolites and metal-organic frameworks. Microporous and Mesoporous Materials, 2018, 267, 274-292.	2.2	27
90	Using Molecular Dynamics simulations for elucidation of molecular traffic in ordered crystalline microporous materials. Microporous and Mesoporous Materials, 2018, 258, 151-169.	2.2	17

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91	A Maxwell-Stefan-Glueckauf description of transient mixture uptake in microporous adsorbents. Separation and Purification Technology, 2018, 191, 392-399.	3.9	19
92	Methodologies for screening and selection of crystalline microporous materials in mixture separations. Separation and Purification Technology, 2018, 194, 281-300.	3.9	91
93	Alkane/alkene mixture diffusion in silicalite-1 studied by MAS PFG NMR. Microporous and Mesoporous Materials, 2018, 257, 128-134.	2.2	23
94	MIL-100Cr with open Cr sites for a record N₂O capture. Chemical Communications, 2018, 54, 14061-14064.	2.2	39
95	Occupancy Dependency of Maxwellâ€“Stefan Diffusivities in Ordered Crystalline Microporous Materials. ACS Omega, 2018, 3, 15743-15753.	1.6	16
96	Enhancing CO2 Adsorption and Separation Properties of Aluminophosphate Zeolites by Isomorphous Heteroatom Substitutions. ACS Applied Materials & Interfaces, 2018, 10, 43570-43577.	4.0	30
97	A Metalâ€“Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. Angewandte Chemie - International Edition, 2018, 57, 15183-15188.	7.2	124
98	A Metalâ€“Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. Angewandte Chemie, 2018, 130, 15403-15408.	1.6	98
99	Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 16252-16257.	1.6	72
100	Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 16020-16025.	7.2	202
101	Molecular sieving of ethylene from ethane using a rigid metalâ€“organic framework. Nature Materials, 2018, 17, 1128-1133.	13.3	532
102	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. Science, 2018, 362, 443-446.	6.0	763
103	Exploring the Effect of Ligand-Originated MOF Isomerism and Methoxy Group Functionalization on Selective Acetylene/Methane and Carbon Dioxide/Methane Adsorption Properties in Two NbO-Type MOFs. ACS Applied Materials & Interfaces, 2018, 10, 20559-20568.	4.0	52
104	Nickel-4â€²-(3,5-dicarboxyphenyl)-2,2â€²,6â€²,2â€³-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. Inorganic Chemistry, 2018, 57, 9489-9494.	1.9	30
105	Enhancing Gas Sorption and Separation Performance via Bisbenzimidazole Functionalization of Highly Porous Covalent Triazine Frameworks. ACS Applied Materials & Interfaces, 2018, 10, 26678-26686.	4.0	52
106	Investigating the non-idealities in adsorption of CO2-bearing mixtures in cation-exchanged zeolites. Separation and Purification Technology, 2018, 206, 208-217.	3.9	34
107	Screening metalâ€“organic frameworks for separation of pentane isomers. Physical Chemistry Chemical Physics, 2017, 19, 8380-8387.	1.3	15
108	A New Isomeric Porous Coordination Framework Showing Single-Crystal to Single-Crystal Structural Transformation and Preferential Adsorption of 1,3-Butadiene from C4 Hydrocarbons. Crystal Growth and Design, 2017, 17, 2166-2171.	1.4	31

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109	Highlighting diffusional coupling effects in zeolite catalyzed reactions by combining the Maxwellâ€“Stefan and Langmuirâ€“Hinshelwood formulations. Reaction Chemistry and Engineering, 2017, 2, 324-336.	1.9	12
110	Significant Enhancement of C₂H₂/C₂H₄ Separation by a Photochromic Diarylethene Unit: A Temperatureâ€•and Lightâ€Responsive Separation Switch. Angewandte Chemie, 2017, 129, 8008-8014.	1.6	22
111	Significant Enhancement of C₂H₂/C₂H₄ Separation by a Photochromic Diarylethene Unit: A Temperatureâ€•and Lightâ€Responsive Separation Switch. Angewandte Chemie - International Edition, 2017, 56, 7900-7906.	7.2	145
112	Ultrahigh and Selective SO₂ Uptake in Inorganic Anionâ€Pillared Hybrid Porous Materials. Advanced Materials, 2017, 29, 1606929.	11.1	183
113	Flexibleâ€“Robust Metalâ€“Organic Framework for Efficient Removal of Propyne from Propylene. Journal of the American Chemical Society, 2017, 139, 7733-7736.	6.6	242
114	Highlighting multiplicity in the Gilliland solution to the Maxwell-Stefan equations describing diffusion distillation. Chemical Engineering Science, 2017, 164, 63-70.	1.9	4
115	Pre-design and synthesis of a five-fold interpenetrated pcu-type porous coordination polymer and its CO₂/CO separation. CrystEngComm, 2017, 19, 6927-6931.	1.3	9
116	Highly selective adsorption of <i>p</i>-xylene over other C₈ aromatic hydrocarbons by Co-CUK-1: a combined experimental and theoretical assessment. Dalton Transactions, 2017, 46, 16096-16101.	1.6	20
117	Resolving steady-state multiplicities for diffusion with surface chemical reaction by invoking the Prigogine principle of minimum entropy production. Chemical Engineering Research and Design, 2017, 128, 231-239.	2.7	2
118	Two Analogous Polyhedron-Based MOFs with High Density of Lewis Basic Sites and Open Metal Sites: Significant CO₂ Capture and Gas Selectivity Performance. ACS Applied Materials & Interfaces, 2017, 9, 32820-32828.	4.0	57
119	Screening metalâ€“organic frameworks for mixture separations in fixed-bed adsorbers using a combined selectivity/capacity metric. RSC Advances, 2017, 7, 35724-35737.	1.7	137
120	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metalâ€“organic framework. Journal of Materials Chemistry A, 2017, 5, 18984-18988.	5.2	88
121	Commensurateâ€“incommensurate adsorption and diffusion in ordered crystalline microporous materials. Physical Chemistry Chemical Physics, 2017, 19, 20320-20337.	1.3	16
122	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. Advanced Materials, 2017, 29, 1704210.	11.1	310
123	Fine-tuning optimal porous coordination polymers using functional alkyl groups for CH₄ purification. Journal of Materials Chemistry A, 2017, 5, 17874-17880.	5.2	32
124	Using the Maxwell-Stefan formulation for highlighting the influence of interspecies (1âˆ’2) friction on binary mixture permeation across microporous and polymeric membranes. Journal of Membrane Science, 2017, 540, 261-276.	4.1	38
125	Flow Enhancement of Shearâ€Thinning Liquids in Capillaries Subjected to Longitudinal Vibrations. Chemie-Ingenieur-Technik, 2017, 89, 1360-1366.	0.4	3
126	Flexible Metalâ€“Organic Frameworks with Discriminatory Gateâ€Opening Effect for the Separation of Acetylene from Ethylene/Acetylene Mixtures. European Journal of Inorganic Chemistry, 2016, 2016, 4457-4462.	1.0	42

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127	Extraordinary Separation of Acetyleneâ€Containing Mixtures with Microporous Metalâ€“Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. Chemistry - A European Journal, 2016, 22, 5676-5683.	1.7	113
128	Bimodal Functionality in a Porous Covalent Triazine Framework by Rational Integration of an Electronâ€Rich and â€Deficient Pore Surface. Chemistry - A European Journal, 2016, 22, 4931-4937.	1.7	36
129	Investigating the Validity of the Knudsen Diffusivity Prescription for Mesoporous and Macroporous Materials. Industrial & Engineering Chemistry Research, 2016, 55, 4749-4759.	1.8	22
130	Diffusing uphill with James Clerk Maxwell and Josef Stefan. Current Opinion in Chemical Engineering, 2016, 12, 106-119.	3.8	23
131	Highlighting Diffusional Coupling Effects in Ternary Liquid Extraction and Comparisons with Distillation. Industrial & Engineering Chemistry Research, 2016, 55, 1053-1063.	1.8	14
132	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. Science, 2016, 353, 141-144.	6.0	1,088
133	Harnessing Lewis acidic open metal sites of metalâ€“organic frameworks: the foremost route to achieve highly selective benzene sorption over cyclohexane. Chemical Communications, 2016, 52, 8215-8218.	2.2	76
134	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. Journal of the American Chemical Society, 2016, 138, 5678-5684.	6.6	489
135	Two heterovalent copperâ€“organic frameworks with multiple secondary building units: high performance for gas adsorption and separation and I₂ sorption and release. Journal of Materials Chemistry A, 2016, 4, 15081-15087.	5.2	52
136	A Porous Zirconiumâ€Based Metalâ€Organic Framework with the Potential for the Separation of Butene Isomers. Chemistry - A European Journal, 2016, 22, 14988-14997.	1.7	57
137	Kr/Xe Separation over a Chabazite Zeolite Membrane. Journal of the American Chemical Society, 2016, 138, 9791-9794.	6.6	103
138	Nitrogen-rich microporous carbons for highly selective separation of light hydrocarbons. Journal of Materials Chemistry A, 2016, 4, 13957-13966.	5.2	64
139	Potential of microporous metalâ€“organic frameworks for separation of hydrocarbon mixtures. Energy and Environmental Science, 2016, 9, 3612-3641.	15.6	530
140	Highlighting coupling effects in ionic diffusion. Chemical Engineering Research and Design, 2016, 114, 1-12.	2.7	7
141	Describing mixture permeation across polymeric membranes by a combination of Maxwell-Stefan and Flory-Huggins models. Polymer, 2016, 103, 124-131.	1.8	31
142	Describing diffusion in fluid mixtures at elevated pressures by combining the Maxwellâ€“Stefan formulation with an equation of state. Chemical Engineering Science, 2016, 153, 174-187.	1.9	29
143	A versatile synthesis of metalâ€“organic framework-derived porous carbons for CO₂ capture and gas separation. Journal of Materials Chemistry A, 2016, 4, 19095-19106.	5.2	43
144	Redoxâ€Active Metalâ€“Organic Composites for Highly Selective Oxygen Separation Applications. Advanced Materials, 2016, 28, 3572-3577.	11.1	55

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145	Tracing the origins of transient overshoots for binary mixture diffusion in microporous crystalline materials. Physical Chemistry Chemical Physics, 2016, 18, 15482-15495.	1.3	35
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