Praveen K Thallapally

List of Publications by Year
in descending order

172	14,919	14614 66	19136 118
papers	citations	h-index	g-index

189	189	189	12988
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in adsorption-based CO₂capture by metalâ€“organic frameworks. Chemical Society Reviews, 2012, 41, 2308-2322.	18.7	1,205
2	Separation of rare gases and chiral molecules by selective binding in porous organic cages. Nature Materials, 2014, 13, 954-960.	13.3	532
3	Engineering void space in organic van der Waals crystals: calixarenes lead the way. Chemical Society Reviews, 2007, 36, 236.	18.7	452
4	Flexible (Breathing) Interpenetrated Metalâ^'Organic Frameworks for CO₂ Separation Applications. Journal of the American Chemical Society, 2008, 130, 16842-16843.	6.6	420
5	Covalent Organic Frameworks as a Decorating Platform for Utilization and Affinity Enhancement of Chelating Sites for Radionuclide Sequestration. Advanced Materials, 2018, 30, e1705479.	11.1	398
6	Introduction of Ï€-Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. Journal of the American Chemical Society, 2014, 136, 8654-8660.	6.6	383
7	Nanoparticles for biomedical imaging. Expert Opinion on Drug Delivery, 2009, 6, 1175-1194.	2.4	369
8	Potential of Metalâ€“Organic Frameworks for Separation of Xenon and Krypton. Accounts of Chemical Research, 2015, 48, 211-219.	7.6	330
9	Metalâ€“organic framework with optimally selective xenon adsorption and separation. Nature Communications, 2016, 7, ncomms11831.	5.8	325
10	In Situ One-Step Synthesis of Hierarchical Nitrogen-Doped Porous Carbon for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 7214-7222.	4.0	306
11	Highly Selective Carbon Dioxide Uptake by [Cu(bpy-n)₂(SiF₆)] (bpy-1 =) Tj ETQq1 1 0.784314 rgBT /O 3663-3666.	6.6	303
12	Removal of TcO₄^{â^'} ions from solution: materials and future outlook. Chemical Society Reviews, 2016, 45, 2724-2739.	18.7	232
13	Synthesis and properties of nano zeolitic imidazolate frameworks. Chemical Communications, 2010, 46, 4878.	2.2	226
14	Porous organic molecular materials. CrystEngComm, 2012, 14, 1909.	1.3	205
15	Gas-induced transformation and expansion of a non-porous organic solid. Nature Materials, 2008, 7, 146-150.	13.3	197
16	Xenon Gas Separation and Storage Using Metal-Organic Frameworks. CheM, 2018, 4, 466-494.	5.8	182
17	Direct Observation of Xe and Kr Adsorption in a Xe-Selective Microporous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 7007-7010.	6.6	179
18	Selective CO₂ Capture from Flue Gas Using Metalâ€“Organic Frameworksâ€•A Fixed Bed Study. Journal of Physical Chemistry C, 2012, 116, 9575-9581.	1.5	176

#	Article	IF	Citations
19	Flexibility in Metalâ€“Organic Frameworks: A fundamental understanding. Coordination Chemistry Reviews, 2018, 358, 125-152.	9.5	175
20	Flexible metalâ€“organic supramolecular isomers for gas separation. Chemical Communications, 2010, 46, 538-540.	2.2	173
21	Facile xenon capture and release at room temperature using a metalâ€“organic framework: a comparison with activated charcoal. Chemical Communications, 2012, 48, 347-349.	2.2	172
22	Metalâ€“Organic Frameworks for Removal of Xe and Kr from Nuclear Fuel Reprocessing Plants. Langmuir, 2012, 28, 11584-11589.	1.6	172
23	Switching Kr/Xe Selectivity with Temperature in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 9046-9049.	6.6	160
24	Enhanced noble gas adsorption in Ag@MOF-74Ni. Chemical Communications, 2014, 50, 466-468.	2.2	153
25	Zirconium-Based Metalâ€“Organic Framework for Removal of Perrhenate from Water. Inorganic Chemistry, 2016, 55, 8241-8243.	1.9	153
26	Gas-Induced Expansion and Contraction of a Fluorinated Metalâ^'Organic Framework. Crystal Growth and Design, 2010, 10, 1037-1039.	1.4	152
27	Ultraporous, Water Stable, and Breathing Zirconium-Based Metalâ€“Organic Frameworks with ftw Topology. Journal of the American Chemical Society, 2015, 137, 13183-13190.	6.6	149
28	Amorphous Molecular Organic Solids for Gas Adsorption. Angewandte Chemie - International Edition, 2009, 48, 5492-5495.	7.2	146
29	Selective removal of cesium and strontium using porous frameworks from high level nuclear waste. Chemical Communications, 2016, 52, 5940-5942.	2.2	145
30	Iodine Adsorption in Metal Organic Frameworks in the Presence of Humidity. ACS Applied Materials & Interfaces, 2018, 10, 10622-10626.	4.0	144
31	Prussian Blue Analogues for CO₂ and SO₂ Capture and Separation Applications. Inorganic Chemistry, 2010, 49, 4909-4915.	1.9	138
32	Hybrid Ultraâ€Microporous Materials for Selective Xenon Adsorption and Separation. Angewandte Chemie - International Edition, 2016, 55, 8285-8289.	7.2	137
33	A porous covalent porphyrin framework with exceptional uptake capacity of saturated hydrocarbons for oil spill cleanup. Chemical Communications, 2013, 49, 1533.	2.2	136
34	Radioactive Iodine and Krypton Control for Nuclear Fuel Reprocessing Facilities. Science and Technology of Nuclear Installations, 2013, 2013, 1-12.	0.3	134
35	High-rate synthesis of Cuâ€“BTC metalâ€“organic frameworks. Chemical Communications, 2013, 49, 11518.	2.2	127
36	Mechanism of Preferential Adsorption of SO₂ into Two Microporous Paddle Wheel Frameworks M(bdc)(ted)_{0.5}. Chemistry of Materials, 2013, 25, 4653-4662.	3.2	127

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37	Carbon Dioxide Capture in a Self-Assembled Organic Nanochannels. Chemistry of Materials, 2007, 19, 3355-3357.	3.2	126
38	Polymorphism of 1,3,5-Trinitrobenzene Induced by a Trisindane Additive. Angewandte Chemie - International Edition, 2004, 43, 1149-1155.	7.2	125
39	Optimizing radionuclide sequestration in anion nanotraps with record pertechnetate sorption. Nature Communications, 2019, 10, 1646.	5.8	122
40	Selective Metal Cation Capture by Soft Anionic Metalâ€“Organic Frameworks via Drastic Single-Crystal-to-Single-Crystal Transformations. Journal of the American Chemical Society, 2012, 134, 9581-9584.	6.6	121
41	Ultralow Parasitic Energy for Postcombustion CO₂ Capture Realized in a Nickel Isonicotinate Metalâ€“Organic Framework with Excellent Moisture Stability. Journal of the American Chemical Society, 2017, 139, 1734-1737.	6.6	121
42	Effect of ring rotation upon gas adsorption in SIFSIX-3-M (M = Fe, Ni) pillared square grid networks. Chemical Science, 2017, 8, 2373-2380.	3.7	121
43	Acetylene Absorption and Binding in a Nonporous Crystal Lattice. Angewandte Chemie - International Edition, 2006, 45, 6506-6509.	7.2	118
44	Hydrogen-Bonded Supramolecular Assemblies as Robust Templates in the Synthesis of Large Metal-Coordinated Capsules. Angewandte Chemie - International Edition, 2005, 44, 5733-5736.	7.2	117
45	Hydrophobic pillared square grids for selective removal of CO₂ from simulated flue gas. Chemical Communications, 2015, 51, 15530-15533.	2.2	115
46	A crystalline organic substrate absorbs methane under STP conditions. Chemical Communications, 2005, , 51.	2.2	114
47	Removal of Pertechnetateâ€Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. Chemistry - A European Journal, 2016, 22, 17581-17584.	1.7	107
48	Fluorocarbon adsorption in hierarchical porous frameworks. Nature Communications, 2014, 5, 4368.	5.8	104
49	Kr/Xe Separation over a Chabazite Zeolite Membrane. Journal of the American Chemical Society, 2016, 138, 9791-9794.	6.6	103
50	Cucurbit[7]uril: an amorphous molecular material for highly selective carbon dioxide uptake. Chemical Communications, 2011, 47, 7626.	2.2	99
51	A Cambridge Structural Database analysis of the Câ€“Hâ‹¯Cl interaction: Câ€“Hâ‹¯Clâ‹¯ and Câ€“Hâ‹¯Clâ€“M often behave as hydrogen bonds but Câ€“Hâ‹¯Clâ€“C is generally a van der Waals interaction. CrystEngComm, 2001, 3, 114-119.	1.3	93
52	Selective CO₂ Adsorption in a Supramolecular Organic Framework. Angewandte Chemie - International Edition, 2016, 55, 4523-4526.	7.2	90
53	pH-Dependent Assembly and Conversions of Six Cadmium(II)-Based Coordination Complexes. Crystal Growth and Design, 2010, 10, 3277-3284.	1.4	89
54	Crystal engineering of nonporous organic solids for methane sorption. Chemical Communications, 2005, , 4420.	2.2	86

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55	Diffusion of Water in a Nonporous Hydrophobic Crystal. Angewandte Chemie - International Edition, 2005, 44, 3848-3851.	7.2	84
56	1:2 and 1:1 Ag(I)-Isonicotinamide Coordination Compounds:â€‰ Five-Fold Interpenetrated CdSO4 Network and the First Example of (Pyridine)Nâ^'Agâ^'O(Amide) Bonds. Crystal Growth and Design, 2004, 4, 215-218.	1.4	82
57	Metal organic gels (MOGs): a new class of sorbents for CO2 separation applications. Journal of Materials Chemistry, 2010, 20, 7623.	6.7	80
58	Zeolitic Imidazolate Framework-8 (ZIF-8) Membranes for Kr/Xe Separation. Industrial & Engineering Chemistry Research, 2017, 56, 1682-1686.	1.8	76
59	Organic crystals absorb hydrogen gas under mild conditions. Chemical Communications, 2005, , 5272.	2.2	75
60	Single-Crystal-to-Single-Crystal Transformation in a One-Dimensional Agâ^'Eu Helical System. Inorganic Chemistry, 2009, 48, 6341-6343.	1.9	74
61	Hexagonal Nanoporous Host Structures Based on 2,4,6-Tris-4-(halo-phenoxy)-1,3,5-triazines (Halo=Chloro, Bromo). Tetrahedron, 2000, 56, 6707-6719.	1.0	72
62	Frustrated Organic Solids Display Unexpected Gas Sorption. Journal of the American Chemical Society, 2006, 128, 15060-15061.	6.6	72
63	Micro and mesoporous metalâ€“organic frameworks for catalysis applications. Dalton Transactions, 2010, 39, 1692-1694.	1.6	71
64	Hexameric C-alkylpyrogallol[4]arene molecular capsules sustained by metal-ion coordination and hydrogen bonds. Chemical Communications, 2006, , 2956.	2.2	70
65	An Electrically Switchable Metal-Organic Framework. Scientific Reports, 2014, 4, 6114.	1.6	70
66	Gasâ€“liquid segmented flow microwave-assisted synthesis of MOF-74(Ni) under moderate pressures. CrystEngComm, 2015, 17, 5502-5510.	1.3	68
67	Advances in lymphatic imaging and drug delivery. Advanced Drug Delivery Reviews, 2011, 63, 876-885.	6.6	67
68	Conversion of nonporous helical cadmium organic framework to a porous form. Chemical Communications, 2010, 46, 5373.	2.2	66
69	Metal-organic heat carrier nanofluids. Nano Energy, 2013, 2, 845-855.	8.2	66
70	A Two-Column Method for the Separation of Kr and Xe from Process Off-Gases. Industrial & Engineering Chemistry Research, 2014, 53, 12893-12899.	1.8	65
71	Free Transport of Water and CO₂ in Nonporous Hydrophobic Clarithromycin Form II Crystals. Journal of the American Chemical Society, 2009, 131, 13216-13217.	6.6	64
72	1,3-Dibromo-2,4,6-trinitrobenzene (DBTNB). Crystal engineering and perfect polar alignment of two-dimensional hyperpolarizable chromophores. Chemical Communications, 2002, , 1052-1053.	2.2	63

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73	Topological Equivalences between Organic and Coordination Polymer Crystal Structures:â€‰ An Organic Ladder Formed with Three-Connected Molecular and Supramolecular Synthons. Organic Letters, 2002, 4, 921-924.	2.4	61
74	Shape and Size Effects in the Crystal Structures of Complexes of 1,3,5-Trinitrobenzene with some Trigonal Donors: The Benzeneâ€“Thiophene Exchange Rule. Tetrahedron, 2000, 56, 6721-6728.	1.0	60
75	Iodine immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132820.	3.9	59
76	Polymorphism of pure p-tert-butylcalix[4]arene: subtle thermally-induced modifications. Chemical Communications, 2004, , 922.	2.2	57
77	Construction of a Novel Znâˆ’Ni Trinuclear Schiff Base and a Ni²⁺ Chemosensor. Inorganic Chemistry, 2010, 49, 7241-7243.	1.9	57
78	Early stage structural development of prototypical zeolitic imidazolate framework (ZIF) in solution. Nanoscale, 2018, 10, 4291-4300.	2.8	56
79	Redoxâ€Active Metalâ€“Organic Composites for Highly Selective Oxygen Separation Applications. Advanced Materials, 2016, 28, 3572-3577.	11.1	55
80	Comparison of porous and nonporous materials for methane storage. New Journal of Chemistry, 2007, 31, 628-630.	1.4	54
81	Highly Permeable AlPO-18 Membranes for N₂/CH₄ Separation. Industrial & Engineering Chemistry Research, 2017, 56, 4113-4118.	1.8	54
82	Radiation-resistant metal-organic framework enables efficient separation of krypton fission gas from spent nuclear fuel. Nature Communications, 2020, 11, 3103.	5.8	54
83	Five New Pseudopolymorphs of sym-Trinitrobenzene. Crystal Growth and Design, 2003, 3, 1033-1040.	1.4	52
84	Hydrogen-Bonded Hexamers Self-Assemble as Spherical and Tubular Superstructures on the Sub-Micron Scale. Angewandte Chemie - International Edition, 2006, 45, 6221-6224.	7.2	48
85	Gas-induced solid state transformation of an organic lattice: from nonporous to nanoporous. Chemical Communications, 2011, 47, 701-703.	2.2	48
86	Noria: A Highly Xeâ€Selective Nanoporous Organic Solid. Chemistry - A European Journal, 2016, 22, 12618-12623.	1.7	48
87	Reduced Magnetism in Coreâ€“Shell Magnetite@MOF Composites. Nano Letters, 2017, 17, 6968-6973.	4.5	47
88	Selfâ€Adjusting Metalâ€“Organic Framework for Efficient Capture of Trace Xenon and Krypton. Angewandte Chemie - International Edition, 2022, 61, .	7.2	47
89	Coupling Octupoles in Crystals:â€‰ The Case of the 1,3,5-Trinitrobenzeneâˆ’Triphenylene 1:1 Molecular Co-Crystal. Chemistry of Materials, 2003, 15, 3063-3073.	3.2	44
90	Sorption of nitrogen oxides in a nonporous crystal. Chemical Communications, 2007, , 1521.	2.2	43

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91	Hyper-Cross-linked Porous Organic Frameworks with Ultramicropores for Selective Xenon Capture. ACS Applied Materials & Interfaces, 2019, 11, 13279-13284.	4.0	43
92	Xe adsorption and separation properties of a series of microporous metalâ€“organic frameworks (MOFs) with V-shaped linkers. Journal of Materials Chemistry A, 2017, 5, 16611-16615.	5.2	42
93	Separation of polar compounds using a flexible metalâ€“organic framework. Chemical Communications, 2015, 51, 8421-8424.	2.2	41
94	Selective CO₂ Adsorption in a Supramolecular Organic Framework. Angewandte Chemie, 2016, 128, 4599-4602.	1.6	40
95	Microporous Crystalline Membranes for Kr/Xe Separation: Comparison Between AlPO-18, SAPO-34, and ZIF-8. ACS Applied Nano Materials, 2018, 1, 463-470.	2.4	39
96	Unusually long cooperative chain of seven hydrogen bonds. An alternative packing type for symmetrical phenols. Chemical Communications, 2002, , 344-345.	2.2	38
97	Câ€“Hâ‹¯O hydrogen bonds in molecular complexes of 1,3,5-trinitrobenzene with some N-heterocycles. CrystEngComm, 2003, 5, 87-92.	1.3	38
98	Understanding the Adsorption Mechanism of Xe and Kr in a Metalâ€“Organic Framework from X-ray Structural Analysis and First-Principles Calculations. Journal of Physical Chemistry Letters, 2015, 6, 1790-1794.	2.1	38
99	Hybrid Ultraâ€Microporous Materials for Selective Xenon Adsorption and Separation. Angewandte Chemie, 2016, 128, 8425-8429.	1.6	38
100	Xenon Recovery at Room Temperature using Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2017, 23, 10758-10762.	1.7	38
101	2,4,6-Tris(4-nitrophenoxy)-1,3,5-triazine: a hexagonal host framework stabilised by the NO2-trimer supramolecular synthon. Chemical Communications, 2002, , 952-953.	2.2	37
102	Dehydrated Prussian blues for CO2 storage and separation applications. CrystEngComm, 2010, 12, 4003.	1.3	35
103	Investigating CO₂ Sorption in SIFSIX-3-M (M = Fe, Co, Ni, Cu, Zn) through Computational Studies. Crystal Growth and Design, 2019, 19, 3732-3743.	1.4	35
104	Metalâ€“Organic Frameworks with Achiral/Monochiral Nano-Channels. Crystal Growth and Design, 2011, 11, 2824-2828.	1.4	33
105	Metalâ€'Organic Framework Isomers with Diamondoid Networks Constructed of a Semirigid Tetrahedral Linker. Crystal Growth and Design, 2010, 10, 5327-5333.	1.4	32
106	Identification of solid-state forms of cucurbit[6]uril for carbon dioxide capture. CrystEngComm, 2013, 15, 1528.	1.3	32
107	Extraction of rare earth elements using magnetite@MOF composites. Journal of Materials Chemistry A, 2018, 6, 18438-18443.	5.2	30
108	Separation of C₂Hydrocarbons by Porous Materials: Metal Organic Frameworks as Platform. Comments on Inorganic Chemistry, 2015, 35, 18-38.	3.0	29

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109	Evaluation of copperâ€“1,3,5â€benzenetricarboxylate metalâ€“organic framework (Cuâ€MOF) as a selective sorbent for Lewisâ€base analytes. Journal of Separation Science, 2011, 34, 2418-2426.	1.3	28
110	Role of hydrocarbons in pore expansion and contraction of a flexible metalâ€“organic framework. Chemical Communications, 2011, 47, 7077.	2.2	27
111	Diffusion of vaporous guests into a seemingly non-porous organic crystal. Chemical Communications, 2014, 50, 15509-15512.	2.2	26
112	Gas/Solvent-Induced Transformation and Expansion of a Nonporous Solid to 1:1 Host Guest Form. Crystal Growth and Design, 2008, 8, 2090-2092.	1.4	25
113	Auxiliary Ligand-Dependent Assembly of Several Ni/Niâ^'Cd Compounds with N₂O₂ Donor Tetradentate Symmetrical Schiff Base Ligand. Crystal Growth and Design, 2010, 10, 4987-4994.	1.4	25
114	Chalcogenide Aerogels as Sorbents for Noble Gases (Xe, Kr). ACS Applied Materials & Interfaces, 2017, 9, 33389-33394.	4.0	25
115	Metalâ€“Organic Frameworkâ€“Polyacrylonitrile Composite Beads for Xenon Capture. ACS Applied Materials & Interfaces, 2020, 12, 45342-45350.	4.0	25
116	Identification of Reaction Sites on Metalâ€“Organic Framework-Based Asymmetric Catalysts for Carbonylâ€“Ene Reactions. ACS Catalysis, 2019, 9, 3969-3977.	5.5	24
117	Recovery of xenon from air over ZIF-8 membranes. Chemical Communications, 2018, 54, 8976-8979.	2.2	23
118	Synthesis of High-Quality Mg-MOF-74 Thin Films via Vapor-Assisted Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35223-35231.	4.0	23
119	Synthesis, Characterization, and Application of Metal Organic Framework Nanostructures. Langmuir, 2010, 26, 18591-18594.	1.6	22
120	Computational studies of adsorption in metal organic frameworks and interaction of nanoparticles in condensed phases. Molecular Simulation, 2014, 40, 571-584.	0.9	21
121	SAPO-34 membranes for xenon capture from air. Journal of Membrane Science, 2019, 573, 288-292.	4.1	21
122	Homochiral 3D metalâ€“organic frameworks from chiral 1D rods: 6-way helical packing. Chemical Communications, 2011, 47, 9402.	2.2	20
123	Insights into the Temperatureâ€Dependent â€œBreathingâ€•of a Flexible Fluorinated Metalâ€“Organic Framework. ChemPhysChem, 2012, 13, 3275-3281.	1.0	20
124	Postsynthetic Oxidation of the Coordination Site in a Heterometallic Metalâ€“Organic Framework: Tuning Catalytic Behaviors. Chemistry of Materials, 2020, 32, 5192-5199.	3.2	20
125	Chiral environment of catalytic sites in the chiral metalâ€“organic frameworks. Dalton Transactions, 2015, 44, 9349-9352.	1.6	19
126	Time Dependent Structural Evolution of Porous Organic Cage CC3. Crystal Growth and Design, 2018, 18, 921-927.	1.4	19

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127	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132849.	3.9	19
128	Simultaneous in Situ X-ray Diffraction and Calorimetric Studies as a Tool To Evaluate Gas Adsorption in Microporous Materials. Journal of Physical Chemistry C, 2016, 120, 360-369.	1.5	18
129	Advanced Porous Materials: Design, Synthesis, and Applications in Sustainability. ACS Sustainable Chemistry and Engineering, 2019, 7, 7997-7998.	3.2	18
130	Desulfurization Efficiency Preserved in a Heterometallic MOF: Synthesis and Thermodynamically Controlled Phase Transition. Advanced Science, 2019, 6, 1802056.	5.6	17
131	Generation of 2D and 3D (PtS, Adamantanoid) Nets with a Flexible Tetrahedral Building Block. Crystal Growth and Design, 2010, 10, 3843-3846.	1.4	16
132	Controlling Metalâ€“Organic Framework/ZnO Heterostructure Kinetics through Selective Ligand Binding to ZnO Surface Steps. Chemistry of Materials, 2020, 32, 6666-6675.	3.2	16
133	Porous Covalent Organic Polymers for Efficient Fluorocarbonâ€Based Adsorption Cooling. Angewandte Chemie - International Edition, 2021, 60, 18037-18043.	7.2	16
134	Effect of Produced HCl during the Catalysis on Micro- and Mesoporous MOFs. Crystal Growth and Design, 2010, 10, 4118-4122.	1.4	15
135	Isoreticular Expansion of Metalâ€“Organic Frameworks via Pillaring of Metal Templated Tunable Building Layers: Hydrogen Storage and Selective CO₂ Capture. Chemistry - A European Journal, 2019, 25, 14500-14505.	1.7	15
136	Direct Observation of Li⁺ Ions Trapped in a Mg²⁺-Templated Metalâ€“Organic Framework. Inorganic Chemistry, 2019, 58, 8922-8926.	1.9	15
137	Adsorption Kinetics in Nanoscale Porous Coordination Polymers. ACS Applied Materials & Interfaces, 2015, 7, 21712-21716.	4.0	14
138	Coordination Covalent Frameworks: A New Route for Synthesis and Expansion of Functional Porous Materials. ACS Applied Materials & Interfaces, 2016, 8, 28424-28427.	4.0	14
139	Adsorption of CO2 on CoII3[CoIII(CN)6]2 using DRIFTS. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 629-634.	2.0	13
140	Computational Study of Hydrocarbon Adsorption in Metalâˆ'Organic Framework Ni₂(dhtp). Journal of Physical Chemistry B, 2011, 115, 2842-2849.	1.2	13
141	Molecular Intermediate in the Directed Formation of a Zeolitic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 17598-17606.	6.6	13
142	Free energies of CO2âˆ•H2 capture by p-tert-butylcalix[4]arene: A molecular dynamics study. Journal of Chemical Physics, 2007, 127, 104703.	1.2	12
143	Matching of molecular and supramolecular symmetry. An exercise in crystal engineering. CrystEngComm, 2001, 3, 134.	1.3	11
144	Kinetics and Mechanisms of ZnO to ZIFâ€8 Transformations in Supercritical CO 2 Revealed by Inâ€…Situ Xâ€ray Diffraction. ChemSusChem, 2020, 13, 2602-2612.	3.6	11

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145	Elucidating the mechanisms of Paraffin-Olefin separations using nanoporous adsorbents: An overview. IScience, 2021, 24, 103042.	1.9	11
146	Molecular mechanism of hydrocarbons binding to the metalâ€“organic framework. Chemical Physics Letters, 2011, 501, 455-460.	1.2	10
147	Understanding nanofluid stability through molecular simulation. Chemical Physics Letters, 2012, 551, 115-120.	1.2	10
148	An Ultraâ€Microporous Metalâ€“Organic Framework with Exceptional Xe Capacity. Chemistry - A European Journal, 2020, 26, 12544-12548.	1.7	10
149	Metal Organic Frameworks for Xenon Storage Applications. , 2020, 2, 233-238.		10
150	Porous Organic Cages CC3 and CC2 as Adsorbents for the Separation of Carbon Dioxide from Nitrogen and Hydrogen. Industrial & Engineering Chemistry Research, 2022, 61, 10547-10553.	1.8	9
151	Grand Canonical Monte Carlo Studies of CO₂ and CH₄ Adsorption in p-tert-Butylcalix[4]Arene. Journal of Physical Chemistry B, 2010, 114, 5764-5768.	1.2	8
152	Computational Studies of Load-Dependent Guest Dynamics and Free Energies of Inclusion for CO2 in Low-Density p-tert-Butylcalix[4]arene at Loadings up to 2:1. Journal of Physical Chemistry A, 2009, 113, 3369-3374.	1.1	7
153	Pseudo-polymorphism in the toluene solvate of p-tert-butylcalix[5]arene: structural and gas sorption investigation. New Journal of Chemistry, 2008, 32, 2095.	1.4	6
154	Synthesis of porous organic cage CC3 via solvent modulated evaporation. Inorganica Chimica Acta, 2020, 501, 119312.	1.2	6
155	Multifunctional Two-Dimensional Metalâ€“Organic Frameworks for Radionuclide Sequestration and Detection. ACS Applied Materials & Interfaces, 2021, 13, 45696-45707.	4.0	6
156	METAL ORGANIC FRAMEWORKSâ€“SYNTHESIS AND APPLICATIONS. , 2014, , 61-103.		6
157	Competitive adsorption study of CO2 and SO2 on CoII3[CoIII(CN)6]2 using DRIFTS. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 287-291.	2.0	5
158	Selfâ€Adjusting Metalâ€“Organic Framework for Efficient Capture of Trace Xenon and Krypton. Angewandte Chemie, 2022, 134, .	1.6	5
159	Sorption of CO₂ in a hydrogen-bonded diamondoid network of sulfonylcalix[4]arene. Supramolecular Chemistry, 2018, 30, 540-544.	1.5	4
160	Dynamics and free energies of CH4 and CO2 in the molecular solid of the p-tert-butylcalix[4]arene. Chemical Physics Letters, 2008, 453, 123-128.	1.2	3
161	Increased control over the desolvation of p-tert-butylcalix[5]arene. CrystEngComm, 2009, 11, 33-35.	1.3	3
162	Gas Sorption and Storage Properties of Calixarenes. , 2016, , 1037-1056.		3

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163	<tt>PoreMatMod.jl</tt>: Julia Package for in Silico Postsynthetic Modification of Crystal Structure Models. Journal of Chemical Information and Modeling, 2022, 62, 423-432.	2.5	3
164	Tris(2-cyanoethyl) isocyanurate. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 572-573.	0.4	2
165	Crystal structures of 3-methyl-1,2,4-benzotriazine 1-oxide and 2-oxide. Journal of Chemical Crystallography, 2006, 36, 557-561.	0.5	2
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