Praveen K Thallapally

List of Publications by Year
in descending order

172 papers	14,919 citations	14614 66 h-index	19136 118 g-index
189 all docs	189 docs citations	189 times ranked	12988 citing authors

#	Article	IF	Citations
1	Selfâ€Adjusting Metalâ€“Organic Framework for Efficient Capture of Trace Xenon and Krypton. Angewandte Chemie, 2022, 134, .	1.6	5
2	Selfâ€Adjusting Metalâ€“Organic Framework for Efficient Capture of Trace Xenon and Krypton. Angewandte Chemie - International Edition, 2022, 61, .	7.2	47
3	<tt>PoreMatMod.jl</tt>: Julia Package for <i>in Silico</i> Postsynthetic Modification of Crystal Structure Models. Journal of Chemical Information and Modeling, 2022, 62, 423-432.	2.5	3
4	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
5	Adsorbed xenon propellant storage: are nanoporous materials worth the weight?. Materials Advances, 2021, 2, 4081-4092.	2.6	2
6	Porous Covalent Organic Polymers for Efficient Fluorocarbonâ€Based Adsorption Cooling. Angewandte Chemie, 2021, 133, 18185-18191.	1.6	0
7	Porous Covalent Organic Polymers for Efficient Fluorocarbonâ€Based Adsorption Cooling. Angewandte Chemie - International Edition, 2021, 60, 18037-18043.	7.2	16
8	Synthesis of High-Quality Mg-MOF-74 Thin Films <i>via</i> Vapor-Assisted Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35223-35231.	4.0	23
9	Multifunctional Two-Dimensional Metalâ€“Organic Frameworks for Radionuclide Sequestration and Detection. ACS Applied Materials & Interfaces, 2021, 13, 45696-45707.	4.0	6
10	Elucidating the mechanisms of Paraffin-Olefin separations using nanoporous adsorbents: An overview. IScience, 2021, 24, 103042.	1.9	11
11	Non-injective gas sensor arrays: identifying undetectable composition changes. Journal of Physics Condensed Matter, 2021, 33, 464003.	0.7	2
12	Iodine immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132820.	3.9	59
13	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132849.	3.9	19
14	Synthesis of porous organic cage CC3 via solvent modulated evaporation. Inorganica Chimica Acta, 2020, 501, 119312.	1.2	6
15	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
16	Metalâ€“Organic Frameworkâ€“Polyacrylonitrile Composite Beads for Xenon Capture. ACS Applied Materials & Interfaces, 2020, 12, 45342-45350.	4.0	25
17	An Ultraâ€Microporous Metalâ€“Organic Framework with Exceptional Xe Capacity. Chemistry - A European Journal, 2020, 26, 12544-12548.	1.7	10
18	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

#	Article	IF	Citations
19	Radiation-resistant metal-organic framework enables efficient separation of krypton fission gas from spent nuclear fuel. Nature Communications, 2020, 11, 3103.	5.8	54
20	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
21	Metal Organic Frameworks for Xenon Storage Applications. , 2020, 2, 233-238.		10
22	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
23	(Invited) Surface Acoustic Wave Sensors for Refrigerant Leak Detection. ECS Meeting Abstracts, 2020, MA2020-01, 2416-2416.	0.0	0
24	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
25	Direct Observation of Li⁺ Ions Trapped in a Mg²⁺-Templated Metalâ€“Organic Framework. Inorganic Chemistry, 2019, 58, 8922-8926.	1.9	15
26	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
27	Advanced Porous Materials: Design, Synthesis, and Applications in Sustainability. ACS Sustainable Chemistry and Engineering, 2019, 7, 7997-7998.	3.2	18
28	Hyper-Cross-linked Porous Organic Frameworks with Ultramicropores for Selective Xenon Capture. ACS Applied Materials & Interfaces, 2019, 11, 13279-13284.	4.0	43
29	Optimizing radionuclide sequestration in anion nanotraps with record pertechnetate sorption. Nature Communications, 2019, 10, 1646.	5.8	122
30	Desulfurization Efficiency Preserved in a Heterometallic MOF: Synthesis and Thermodynamically Controlled Phase Transition. Advanced Science, 2019, 6, 1802056.	5.6	17
31	Identification of Reaction Sites on Metalâ€“Organic Framework-Based Asymmetric Catalysts for Carbonylâ€“Ene Reactions. ACS Catalysis, 2019, 9, 3969-3977.	5.5	24
32	SAPO-34 membranes for xenon capture from air. Journal of Membrane Science, 2019, 573, 288-292.	4.1	21
33	Xenon Gas Separation and Storage Using Metal-Organic Frameworks. CheM, 2018, 4, 466-494.	5.8	182
34	Time Dependent Structural Evolution of Porous Organic Cage CC3. Crystal Growth and Design, 2018, 18, 921-927.	1.4	19
35	Early stage structural development of prototypical zeolitic imidazolate framework (ZIF) in solution. Nanoscale, 2018, 10, 4291-4300.	2.8	56
36	Sorption of CO₂ in a hydrogen-bonded diamondoid network of sulfonylcalix[4]arene. Supramolecular Chemistry, 2018, 30, 540-544.	1.5	4

#	Article	IF	Citations
37	Flexibility in Metalâ€œOrganic Frameworks: A fundamental understanding. Coordination Chemistry Reviews, 2018, 358, 125-152.	9.5	175
38	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
39	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
40	Iodine Adsorption in Metal Organic Frameworks in the Presence of Humidity. ACS Applied Materials & Interfaces, 2018, 10, 10622-10626.	4.0	144
41	Extraction of rare earth elements using magnetite@MOF composites. Journal of Materials Chemistry A, 2018, 6, 18438-18443.	5.2	30
42	Recovery of xenon from air over ZIF-8 membranes. Chemical Communications, 2018, 54, 8976-8979.	2.2	23
43	Ultralow Parasitic Energy for Postcombustion CO₂ Capture Realized in a Nickel Isonicotinate Metalâ€œOrganic Framework with Excellent Moisture Stability. Journal of the American Chemical Society, 2017, 139, 1734-1737.	6.6	121
44	Zeolitic Imidazolate Framework-8 (ZIF-8) Membranes for Kr/Xe Separation. Industrial & Engineering Chemistry Research, 2017, 56, 1682-1686.	1.8	76
45	Chalcogenide Aerogels as Sorbents for Noble Gases (Xe, Kr). ACS Applied Materials & Interfaces, 2017, 9, 33389-33394.	4.0	25
46	Xenon Recovery at Room Temperature using Metalâ€œOrganic Frameworks. Chemistry - A European Journal, 2017, 23, 10758-10762.	1.7	38
47	Highly Permeable AlPO-18 Membranes for N₂/CH₄ Separation. Industrial & Engineering Chemistry Research, 2017, 56, 4113-4118.	1.8	54
48	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
49	Reduced Magnetism in Coreâ€œShell Magnetite@MOF Composites. Nano Letters, 2017, 17, 6968-6973.	4.5	47
50	Xe adsorption and separation properties of a series of microporous metalâ€œorganic frameworks (MOFs) with V-shaped linkers. Journal of Materials Chemistry A, 2017, 5, 16611-16615.	5.2	42
51	Hybrid Ultraâ€Microporous Materials for Selective Xenon Adsorption and Separation. Angewandte Chemie, 2016, 128, 8425-8429.	1.6	38
52	Hybrid Ultraâ€Microporous Materials for Selective Xenon Adsorption and Separation. Angewandte Chemie - International Edition, 2016, 55, 8285-8289.	7.2	137
53	Selective CO₂ Adsorption in a Supramolecular Organic Framework. Angewandte Chemie, 2016, 128, 4599-4602.	1.6	40
54	Selective removal of cesium and strontium using porous frameworks from high level nuclear waste. Chemical Communications, 2016, 52, 5940-5942.	2.2	145

#	Article	IF	Citations
55	Removal of Pertechnetateâ€Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. Chemistry - A European Journal, 2016, 22, 17581-17584.	1.7	107
56	Frontispiece: Noria: A Highly Xe-Selective Nanoporous Organic Solid. Chemistry - A European Journal, 2016, 22, .	1.7	1
57	Kr/Xe Separation over a Chabazite Zeolite Membrane. Journal of the American Chemical Society, 2016, 138, 9791-9794.	6.6	103
58	Zirconium-Based Metalâ€“Organic Framework for Removal of Perrhenate from Water. Inorganic Chemistry, 2016, 55, 8241-8243.	1.9	153
59	Gas Sorption and Storage Properties of Calixarenes. , 2016, , 1037-1056.		3
60	Noria: A Highly Xeâ€Selective Nanoporous Organic Solid. Chemistry - A European Journal, 2016, 22, 12618-12623.	1.7	48
61	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
62	Redoxâ€Active Metalâ€“Organic Composites for Highly Selective Oxygen Separation Applications. Advanced Materials, 2016, 28, 3572-3577.	11.1	55
63	Selective CO₂ Adsorption in a Supramolecular Organic Framework. Angewandte Chemie - International Edition, 2016, 55, 4523-4526.	7.2	90
64	Removal of TcO₄^{â^’} ions from solution: materials and future outlook. Chemical Society Reviews, 2016, 45, 2724-2739.	18.7	232
65	Simultaneous <i>in Situ</i> 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
66	Metalâ€“organic framework with optimally selective xenon adsorption and separation. Nature Communications, 2016, 7, ncomms11831.	5.8	325
67	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
68	Separation of polar compounds using a flexible metalâ€“organic framework. Chemical Communications, 2015, 51, 8421-8424.	2.2	41
69	Separation of C₂Hydrocarbons by Porous Materials: Metal Organic Frameworks as Platform. Comments on Inorganic Chemistry, 2015, 35, 18-38.	3.0	29
70	Gasâ€“liquid segmented flow microwave-assisted synthesis of MOF-74(Ni) under moderate pressures. CrystEngComm, 2015, 17, 5502-5510.	1.3	68
71	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
72	Chiral environment of catalytic sites in the chiral metalâ€“organic frameworks. Dalton Transactions, 2015, 44, 9349-9352.	1.6	19

#	Article	IF	Citations
73	Adsorption Kinetics in Nanoscale Porous Coordination Polymers. ACS Applied Materials & Interfaces, 2015, 7, 21712-21716.	4.0	14
74	Hydrophobic pillared square grids for selective removal of CO₂ from simulated flue gas. Chemical Communications, 2015, 51, 15530-15533.	2.2	115
75	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
76	Potential of Metalâ€“Organic Frameworks for Separation of Xenon and Krypton. Accounts of Chemical Research, 2015, 48, 211-219.	7.6	330
77	Computational studies of adsorption in metal organic frameworks and interaction of nanoparticles in condensed phases. Molecular Simulation, 2014, 40, 571-584.	0.9	21
78	Diffusion of vaporous guests into a seemingly non-porous organic crystal. Chemical Communications, 2014, 50, 15509-15512.	2.2	26
79	Enhanced noble gas adsorption in Ag@MOF-74Ni. Chemical Communications, 2014, 50, 466-468.	2.2	153
80	Separation of rare gases and chiral molecules by selective binding in porous organic cages. Nature Materials, 2014, 13, 954-960.	13.3	532
81	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
82	Fluorocarbon adsorption in hierarchical porous frameworks. Nature Communications, 2014, 5, 4368.	5.8	104
83	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
84	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
85	An Electrically Switchable Metal-Organic Framework. Scientific Reports, 2014, 4, 6114.	1.6	70
86	METAL ORGANIC FRAMEWORKSâ€“SYNTHESIS AND APPLICATIONS. , 2014, , 61-103.		6
87	Identification of solid-state forms of cucurbit[6]uril for carbon dioxide capture. CrystEngComm, 2013, 15, 1528.	1.3	32
88	High-rate synthesis of Cuâ€“BTC metalâ€“organic frameworks. Chemical Communications, 2013, 49, 11518.	2.2	127
89	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
90	Metal-organic heat carrier nanofluids. Nano Energy, 2013, 2, 845-855.	8.2	66

#	Article	IF	Citations
91	A porous covalent porphyrin framework with exceptional uptake capacity of saturated hydrocarbons for oil spill cleanup. Chemical Communications, 2013, 49, 1533.	2.2	136
92	Radioactive Iodine and Krypton Control for Nuclear Fuel Reprocessing Facilities. Science and Technology of Nuclear Installations, 2013, 2013, 1-12.	0.3	134
93	Control, conversion, and utilization of greenhouse gases for fuels and energy. Catalysis Today, 2012, 194, 1.	2.2	0
94	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
95	Progress in adsorption-based CO₂capture by metalâ€“organic frameworks. Chemical Society Reviews, 2012, 41, 2308-2322.	18.7	1,205
96	Highly Selective Carbon Dioxide Uptake by [Cu(bpy-<i>n</i>)₂(SiF₆)] (bpy-1 =) Tj ETQq0 0 0 rgBT /Overlock 1 3663-3666.	6.6	303
97	Understanding nanofluid stability through molecular simulation. Chemical Physics Letters, 2012, 551, 115-120.	1.2	10
98	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
99	Metalâ€“Organic Frameworks for Removal of Xe and Kr from Nuclear Fuel Reprocessing Plants. Langmuir, 2012, 28, 11584-11589.	1.6	172
100	Switching Kr/Xe Selectivity with Temperature in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 9046-9049.	6.6	160
101	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
102	Porous organic molecular materials. CrystEngComm, 2012, 14, 1909.	1.3	205
103	Insights into the Temperatureâ€Dependent â€œBreathingâ€•of a Flexible Fluorinated Metalâ€“Organic Framework. ChemPhysChem, 2012, 13, 3275-3281.	1.0	20
104	Cucurbit[7]uril: an amorphous molecular material for highly selective carbon dioxide uptake. Chemical Communications, 2011, 47, 7626.	2.2	99
105	Role of hydrocarbons in pore expansion and contraction of a flexible metalâ€“organic framework. Chemical Communications, 2011, 47, 7077.	2.2	27
106	Gas-induced solid state transformation of an organic lattice: from nonporous to nanoporous. Chemical Communications, 2011, 47, 701-703.	2.2	48
107	Homochiral 3D metalâ€“organic frameworks from chiral 1D rods: 6-way helical packing. Chemical Communications, 2011, 47, 9402.	2.2	20
108	Computational Study of Hydrocarbon Adsorption in Metalâˆ'Organic Framework Ni₂(dhtp). Journal of Physical Chemistry B, 2011, 115, 2842-2849.	1.2	13

#	Article	IF	Citations
109	Metalâ€“Organic Frameworks with Achiral/Monochiral Nano-Channels. Crystal Growth and Design, 2011, 11, 2824-2828.	1.4	33
110	Advances in lymphatic imaging and drug delivery. Advanced Drug Delivery Reviews, 2011, 63, 876-885.	6.6	67
111	Molecular mechanism of hydrocarbons binding to the metalâ€“organic framework. Chemical Physics Letters, 2011, 501, 455-460.	1.2	10
112	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
113	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
114	Grand Canonical Monte Carlo Studies of CO₂ and CH₄ Adsorption in <i>p</i>-<i>tert</i>-Butylcalix[4]Arene. Journal of Physical Chemistry B, 2010, 114, 5764-5768.	1.2	8
115	Synthesis and properties of nano zeolitic imidazolate frameworks. Chemical Communications, 2010, 46, 4878.	2.2	226
116	Construction of a Novel Znâˆ’Ni Trinuclear Schiff Base and a Ni²⁺ Chemosensor. Inorganic Chemistry, 2010, 49, 7241-7243.	1.9	57
117	Synthesis, Characterization, and Application of Metal Organic Framework Nanostructures. Langmuir, 2010, 26, 18591-18594.	1.6	22
118	Flexible metalâ€“organic supramolecular isomers for gas separation. Chemical Communications, 2010, 46, 538-540.	2.2	173
119	pH-Dependent Assembly and Conversions of Six Cadmium(II)-Based Coordination Complexes. Crystal Growth and Design, 2010, 10, 3277-3284.	1.4	89
120	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
121	Metalâˆ’Organic Framework Isomers with Diamondoid Networks Constructed of a Semirigid Tetrahedral Linker. Crystal Growth and Design, 2010, 10, 5327-5333.	1.4	32
122	Metal organic gels (MOGs): a new class of sorbents for CO2 separation applications. Journal of Materials Chemistry, 2010, 20, 7623.	6.7	80
123	Effect of Produced HCl during the Catalysis on Micro- and Mesoporous MOFs. Crystal Growth and Design, 2010, 10, 4118-4122.	1.4	15
124	Prussian Blue Analogues for CO₂ and SO₂ Capture and Separation Applications. Inorganic Chemistry, 2010, 49, 4909-4915.	1.9	138
125	Gas-Induced Expansion and Contraction of a Fluorinated Metalâˆ’Organic Framework. Crystal Growth and Design, 2010, 10, 1037-1039.	1.4	152
126	Auxiliary Ligand-Dependent Assembly of Several Ni/Niâˆ’Cd Compounds with N₂O₂ Donor Tetradentate Symmetrical Schiff Base Ligand. Crystal Growth and Design, 2010, 10, 4987-4994.	1.4	25

#	Article	IF	Citations
127	Micro and mesoporous metalâ€“organic frameworks for catalysis applications. Dalton Transactions, 2010, 39, 1692-1694.	1.6	71
128	Conversion of nonporous helical cadmium organic framework to a porous form. Chemical Communications, 2010, 46, 5373.	2.2	66
129	Dehydrated Prussian blues for CO2 storage and separation applications. CrystEngComm, 2010, 12, 4003.	1.3	35
130	Amorphous Molecular Organic Solids for Gas Adsorption. Angewandte Chemie - International Edition, 2009, 48, 5492-5495.	7.2	146
131	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
132	Single-Crystal-to-Single-Crystal Transformation in a One-Dimensional Agâˆ'Eu Helical System. Inorganic Chemistry, 2009, 48, 6341-6343.	1.9	74
133	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
134	Nanoparticles for biomedical imaging. Expert Opinion on Drug Delivery, 2009, 6, 1175-1194.	2.4	369
135	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
136	Increased control over the desolvation of p-tert-butylcalix[5]arene. CrystEngComm, 2009, 11, 33-35.	1.3	3
137	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
138	Gas-induced transformation and expansion of a non-porous organic solid. Nature Materials, 2008, 7, 146-150.	13.3	197
139	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
140	Flexible (Breathing) Interpenetrated Metalâ'Organic Frameworks for CO₂ Separation Applications. Journal of the American Chemical Society, 2008, 130, 16842-16843.	6.6	420
141	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
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	Sorption of nitrogen oxides in a nonporous crystal. Chemical Communications, 2007, , 1521.	2.2	43
144	Comparison of porous and nonporous materials for methane storage. New Journal of Chemistry, 2007, 31, 628-630.	1.4	54

#	Article	IF	Citations
145	Engineering void space in organic van der Waals crystals: calixarenes lead the way. Chemical Society Reviews, 2007, 36, 236.	18.7	452
146	Carbon Dioxide Capture in a Self-Assembled Organic Nanochannels. Chemistry of Materials, 2007, 19, 3355-3357.	3.2	126
147	Hexameric C-alkylpyrogallol[4]arene molecular capsules sustained by metal-ion coordination and hydrogen bonds. Chemical Communications, 2006, , 2956.	2.2	70
148	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
149	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
150	Acetylene Absorption and Binding in a Nonporous Crystal Lattice. Angewandte Chemie - International Edition, 2006, 45, 6506-6509.	7.2	118
151	Frustrated Organic Solids Display Unexpected Gas Sorption. Journal of the American Chemical Society, 2006, 128, 15060-15061.	6.6	72
152	Diffusion of Water in a Nonporous Hydrophobic Crystal. Angewandte Chemie - International Edition, 2005, 44, 3848-3851.	7.2	84
153	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
154	Organic crystals absorb hydrogen gas under mild conditions. Chemical Communications, 2005, , 5272.	2.2	75
155	Crystal engineering of nonporous organic solids for methane sorption. Chemical Communications, 2005, , 4420.	2.2	86
156	A crystalline organic substrate absorbs methane under STP conditions. Chemical Communications, 2005, , 51.	2.2	114
157	Polymorphism of 1,3,5-Trinitrobenzene Induced by a Trisindane Additive. Angewandte Chemie - International Edition, 2004, 43, 1149-1155.	7.2	125
158	Polymorphism of pure p-tert-butylcalix[4]arene: subtle thermally-induced modifications. Chemical Communications, 2004, , 922.	2.2	57
159	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
160	Coupling Octupoles in Crystals:â€‰ The Case of the 1,3,5-Trinitrobenzeneâ˘Triphenylene 1:1 Molecular Co-Crystal. Chemistry of Materials, 2003, 15, 3063-3073.	3.2	44
161	Five New Pseudopolymorphs of sym-Trinitrobenzene. Crystal Growth and Design, 2003, 3, 1033-1040.	1.4	52
162	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

#	Article	IF	Citations
163	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
164	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
165	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
166	Unusually long cooperative chain of seven hydrogen bonds. An alternative packing type for symmetrical phenols. Chemical Communications, 2002, , 344-345.	2.2	38
167	Matching of molecular and supramolecular symmetry. An exercise in crystal engineering. CrystEngComm, 2001, 3, 134.	1.3	11
168	A Cambridge Structural Database analysis of the Câ€“Hâ‹¯Cl interaction: Câ€“Hâ‹¯Clâˆ’ 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
169	Tris(2-cyanoethyl) isocyanurate. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 572-573.	0.4	2
170	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
171	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
172	Understanding the Adsorption of Noble Gases in Metalâ€“Organic Frameworks Using Diffuse Reflectance Infrared Fourier Transform Spectroscopy. Industrial & Engineering Chemistry Research, 0, , .	1.8	0