Jing Li

List of Publications by Year in descending order

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453	41,425	2213	2949
papers	citations	99 h-index	189 g-index

500	500	500	24837
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Luminescent metalâ€“organic frameworks for chemical sensing and explosive detection. Chemical Society Reviews, 2014, 43, 5815-5840.	18.7	3,704
2	Metalâ€“organic frameworks: functional luminescent and photonic materials for sensing applications. Chemical Society Reviews, 2017, 46, 3242-3285.	18.7	2,457
3	A Luminescent Microporous Metalâ€“Organic Framework for the Fast and Reversible Detection of High Explosives. Angewandte Chemie - International Edition, 2009, 48, 2334-2338.	7.2	1,168
4	New Microporous Metalâ˜Organic Framework Demonstrating Unique Selectivity for Detection of High Explosives and Aromatic Compounds. Journal of the American Chemical Society, 2011, 133, 4153-4155.	6.6	1,073
5	Commensurate Adsorption of Hydrocarbons and Alcohols in Microporous Metal Organic Frameworks. Chemical Reviews, 2012, 112, 836-868.	23.0	985
6	Functional metalâ€“organic frameworks as effective sensors of gases and volatile compounds. Chemical Society Reviews, 2020, 49, 6364-6401.	18.7	784
7	Separation of Hydrocarbons with a Microporous Metal-Organic Framework. Angewandte Chemie - International Edition, 2006, 45, 616-619.	7.2	731
8	Zeolitic Imidazolate Frameworks for Kinetic Separation of Propane and Propene. Journal of the American Chemical Society, 2009, 131, 10368-10369.	6.6	637
9	Microporous Metal Organic Materials:Â Promising Candidates as Sorbents for Hydrogen Storage. Journal of the American Chemical Society, 2004, 126, 1308-1309.	6.6	615
10	MOFs for CO₂capture and separation from flue gas mixtures: the effect of multifunctional sites on their adsorption capacity and selectivity. Chemical Communications, 2013, 49, 653-661.	2.2	564
11	Photochemical Water Oxidation by Crystalline Polymorphs of Manganese Oxides: Structural Requirements for Catalysis. Journal of the American Chemical Society, 2013, 135, 3494-3501.	6.6	561
12	Sensing and capture of toxic and hazardous gases and vapors by metalâ€“organic frameworks. Chemical Society Reviews, 2018, 47, 4729-4756.	18.7	530
13	Efficient and tunable white-light emission of metalâ€“organic frameworks by iridium-complex encapsulation. Nature Communications, 2013, 4, 2717.	5.8	501
14	â„PM-1: A Recyclable Nanoporous Material Suitable for Ship-In-Bottle Synthesis and Large Hydrocarbon Sorption. Angewandte Chemie - International Edition, 2003, 42, 542-546.	7.2	453
15	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO₂ by Dual Functionalization of a rhtâ€Type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 1412-1415.	7.2	430
16	Zn(tbip) (H2tbip= 5-tert-Butyl Isophthalic Acid):Â A Highly Stable Guest-Free Microporous Metal Organic Framework with Unique Gas Separation Capability. Journal of the American Chemical Society, 2006, 128, 4180-4181.	6.6	425
17	A Multifunctional Organicâ€“Inorganic Hybrid Structure Based on Mn^{III}â€“Porphyrin and Polyoxometalate as a Highly Effective Dye Scavenger and Heterogenous Catalyst. Journal of the American Chemical Society, 2012, 134, 87-90.	6.6	408
18	Novel Single- and Double-Layer and Three-Dimensional Structures of Rare-Earth Metal Coordination Polymers: The Effect of Lanthanide Contraction and Acidity Control in Crystal Structure Formation. Angewandte Chemie - International Edition, 2000, 39, 527-530.	7.2	406

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19	Nanobelts, Nanocombs, and Nanowindmills of Wurtzite ZnS. Advanced Materials, 2003, 15, 228-231.	11.1	393
20	Stability and Hydrolyzation of Metal Organic Frameworks with Paddle-Wheel SBUs upon Hydration. Chemistry of Materials, 2012, 24, 3153-3167.	3.2	368
21	Effective Detection of Mycotoxins by a Highly Luminescent Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 16209-16215.	6.6	350
22	Luminescent metalâ€“organic frameworks as explosive sensors. Dalton Transactions, 2014, 43, 10668-10685.	1.6	344
23	Highly Efficient Luminescent Metalâ€“Organic Framework for the Simultaneous Detection and Removal of Heavy Metals from Water. ACS Applied Materials & Interfaces, 2016, 8, 30294-30303.	4.0	320
24	Microporous Metal-Organic Frameworks with High Gas Sorption and Separation Capacity. Advanced Functional Materials, 2007, 17, 1255-1262.	7.8	317
25	Tuning the Gate Opening Pressure of Metalâ€“Organic Frameworks (MOFs) for the Selective Separation of Hydrocarbons. Journal of the American Chemical Society, 2012, 134, 15201-15204.	6.6	278
26	A Multifunctional 3D Ferroelectric and NLO-Active Porous Metalâ^'Organic Framework. Journal of the American Chemical Society, 2009, 131, 6894-6895.	6.6	264
27	A New Type of Two-Dimensional Metal Coordination Systems:â€‰ Hydrothermal Synthesis and Properties of the First Oxalateâ^'bpy Mixed-Ligand Framework [M(ox)(bpy)] (M = Fe(II), Co(II), Ni(II), Zn(II); ox =) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	264
28	Solution Processable MOF Yellow Phosphor with Exceptionally High Quantum Efficiency. Journal of the American Chemical Society, 2014, 136, 16724-16727.	6.6	254
29	The First Covalent Organicâ^'Inorganic Networks of Hybrid Chalcogenides:Â Structures That May Lead to a New Type of Quantum Wells. Journal of the American Chemical Society, 2000, 122, 8789-8790.	6.6	251
30	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. Nature Communications, 2018, 9, 1745.	5.8	251
31	Tailorâ€Made Microporous Metalâ€“Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. Advanced Materials, 2018, 30, e1805088.	11.1	241
32	A mixed-valence copper coordination polymer generated by hydrothermal metal/ligand redox reactionsElectronic supplementary (ESI) available: the effective molar magnetic moment Âµeff of 1 vs. T. See http://www.rsc.org/suppdata/cc/b2/b203301a/. Chemical Communications, 2002, , 1342-1343.	2.2	236
33	The Effect of pH on the Dimensionality of Coordination Polymers. Inorganic Chemistry, 2001, 40, 1271-1283.	1.9	233
34	From 1D Chain to 3D Network:Â Tuning Hybrid II-VI Nanostructures and Their Optical Properties. Journal of the American Chemical Society, 2003, 125, 7049-7055.	6.6	219
35	Synthesis and hydrogen-storage behavior of metalâ€“organic framework MOF-5. International Journal of Hydrogen Energy, 2009, 34, 1377-1382.	3.8	219
36	Low temperature route towards new materials: solvothermal synthesis of metal chalcogenides in ethylenediamine. Coordination Chemistry Reviews, 1999, 190-192, 707-735.	9.5	213

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37	A Family of Highly Efficient CuI-Based Lighting Phosphors Prepared by a Systematic, Bottom-up Synthetic Approach. Journal of the American Chemical Society, 2015, 137, 9400-9408.	6.6	211
38	The first example of commensurate adsorption of atomic gas in a MOF and effective separation of xenon from other noble gases. Chemical Science, 2014, 5, 620-624.	3.7	203
39	A Systematic Study of Fluorescenceâ€Based Detection of Nitroexplosives and Other Aromatics in the Vapor Phase by Microporous Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2013, 19, 15964-15971.	1.7	198
40	From Single to Multiple Atomic Layers:Â A Unique Approach to the Systematic Tuning of Structures and Properties of Inorganicâ€'Organic Hybrid Nanostructured Semiconductors. Journal of the American Chemical Society, 2007, 129, 3157-3162.	6.6	196
41	Stable Luminescent Metalâ€“Organic Frameworks as Dual-Functional Materials To Encapsulate Ln³⁺ Ions for White-Light Emission and To Detect Nitroaromatic Explosives. Inorganic Chemistry, 2015, 54, 3290-3296.	1.9	196
42	A Semiconductor Bulk Material That Emits Direct White Light. Journal of the American Chemical Society, 2008, 130, 8114-8115.	6.6	194
43	Copper Iodide Based Hybrid Phosphors for Energyâ€Efficient General Lighting Technologies. Advanced Functional Materials, 2018, 28, 1705593.	7.8	184
44	Designer Metalâ€“Organic Frameworks for Sizeâ€Exclusionâ€Based Hydrocarbon Separations: Progress and Challenges. Advanced Materials, 2020, 32, e2002603.	11.1	182
45	Synthesis, Characterization and Structural Transformation of A Condensed Rare Earth Metal Coordination Polymer. Inorganic Chemistry, 2001, 40, 828-830.	1.9	178
46	Climbing the Volcano of Electrocatalytic Activity while Avoiding Catalyst Corrosion: Ni₃P, a Hydrogen Evolution Electrocatalyst Stable in Both Acid and Alkali. ACS Catalysis, 2018, 8, 4408-4419.	5.5	178
47	Enhancing Gas Adsorption and Separation Capacity through Ligand Functionalization of Microporous Metalâ€“Organic Framework Structures. Chemistry - A European Journal, 2011, 17, 5101-5109.	1.7	176
48	[Cu(i)(bpp)]BF4: the first extended coordination network prepared solvothermally in an ionic liquid solvent. Chemical Communications, 2002, , 2872-2873.	2.2	175
49	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
50	Enhancement of <scp>CO₂</scp> Adsorption and <scp>CO₂/N₂</scp> Selectivity on <scp>ZIF</scp>â€8 via Postsynthetic Modification. AICHE Journal, 2013, 59, 2195-2206.	1.8	171
51	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	5.8	171
52	Gas sorption properties of microporous metal organic frameworks. Journal of Solid State Chemistry, 2005, 178, 2527-2532.	1.4	170
53	Systematic Approach in Designing Rare-Earth-Free Hybrid Semiconductor Phosphors for General Lighting Applications. Journal of the American Chemical Society, 2014, 136, 14230-14236.	6.6	169
54	Luminescent metalâ€“organic frameworks and coordination polymers as alternative phosphors for energy efficient lighting devices. Coordination Chemistry Reviews, 2018, 373, 116-147.	9.5	169

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55	Cu-X-bpy (X = Cl, Br; bpy = 4,4â€˜-bipyridine) Coordination Polymers:â€‰ The Stoichiometric Control and Structural Relations of [Cu2X2(bpy)] and [CuBr(bpy)]. Inorganic Chemistry, 1999, 38, 4608-4611.	1.9	168
56	Highly Selective CO₂ Capture by a Flexible Microporous Metalâ€“Organic Framework (MMOF) Material. Chemistry - A European Journal, 2010, 16, 13951-13954.	1.7	167
57	The Nature of Surface Barriers on Nanoporous Solids Explored by Microimaging of Transient Guest Distributions. Journal of the American Chemical Society, 2011, 133, 2804-2807.	6.6	166
58	A Robust Squarate-Based Metalâ€“Organic Framework Demonstrates Record-High Affinity and Selectivity for Xenon over Krypton. Journal of the American Chemical Society, 2019, 141, 9358-9364.	6.6	162
59	Microporous Metalâ€“Organic Frameworks for Adsorptive Separation of C5â€“C6 Alkane Isomers. Accounts of Chemical Research, 2019, 52, 1968-1978.	7.6	160
60	Multifunctional Microporous MOFs Exhibiting Gas/Hydrocarbon Adsorption Selectivity, Separation Capability and Threeâ€Dimensional Magnetic Ordering. Advanced Functional Materials, 2008, 18, 2205-2214.	7.8	159
61	Competitive Coadsorption of CO₂ with H₂O, NH₃, SO₂, NO, NO₂, N₂, O₂, and CH₄ in M-MOF-74 (M = Mg, Co, Ni): The Role of Hydrogen Bonding. Chemistry of Materials, 2015, 27, 2203-2217.	3.2	158
62	Coordination Geometry and Oxidation State Requirements of Corner-Sharing MnO₆ Octahedra for Water Oxidation Catalysis: An Investigation of Manganite (Î³-MnOOH). ACS Catalysis, 2016, 6, 2089-2099.	5.5	156
63	Understanding and controlling water stability of MOF-74. Journal of Materials Chemistry A, 2016, 4, 5176-5183.	5.2	155
64	A new layered metalâ€“organic framework as a promising heterogeneous catalyst for olefin epoxidation reactions. Chemical Communications, 2012, 48, 6541.	2.2	151
65	Water Reaction Mechanism in Metal Organic Frameworks with Coordinatively Unsaturated Metal Ions: MOF-74. Chemistry of Materials, 2014, 26, 6886-6895.	3.2	149
66	Achieving exceptionally high luminescence quantum efficiency by immobilizing an AIE molecular chromophore into a metalâ€“organic framework. Chemical Communications, 2015, 51, 3045-3048.	2.2	148
67	Water interactions in metal organic frameworks. CrystEngComm, 2015, 17, 247-260.	1.3	148
68	All-in-One: Achieving Robust, Strongly Luminescent and Highly Dispersible Hybrid Materials by Combining Ionic and Coordinate Bonds in Molecular Crystals. Journal of the American Chemical Society, 2017, 139, 9281-9290.	6.6	146
69	Solutionâ€Processable Whiteâ€Lightâ€Emitting Hybrid Semiconductor Bulk Materials with High Photoluminescence Quantum Efficiency. Angewandte Chemie - International Edition, 2012, 51, 436-439.	7.2	140
70	In situ tetrazole ligand synthesis leading to a microporous cadmiumâ€“organic framework for selective ion sensing. Chemical Communications, 2009, , 5415.	2.2	139
71	Facile synthesis of Fe3O4@MIL-100(Fe) towards enhancing photo-Fenton like degradation of levofloxacin via a synergistic effect between Fe3O4 and MIL-100(Fe). Chemical Engineering Journal, 2021, 409, 128274.	6.6	130
72	Flexible Wurtzite-Type ZnS Nanobelts with Quantum-Size Effects: a Diethylenetriamine-Assisted Solvothermal Approach. Small, 2005, 1, 320-325.	5.2	128

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73	A Calcium Coordination Framework Having Permanent Porosity and High CO₂/N₂ Selectivity. Crystal Growth and Design, 2012, 12, 2162-2165.	1.4	127
74	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
75	A molecular Pd(<scp>ii</scp>) complex incorporated into a MOF as a highly active single-site heterogeneous catalyst for Câ€“Cl bond activation. Green Chemistry, 2014, 16, 3978.	4.6	127
76	Achieving High Density of Adsorbed Hydrogen in Microporous Metal Organic Frameworks. Advanced Materials, 2005, 17, 2703-2706.	11.1	125
77	A Systematic Approach to Achieving High Performance Hybrid Lighting Phosphors with Excellent Thermalâ€•and Photostability. Advanced Functional Materials, 2017, 27, 1603444.	7.8	125
78	Inorganicâ^'Organic Hybrid Composites Containing MQ (IIâ^'VI) Slabs:Â A New Class of Nanostructures with Strong Quantum Confinement and Periodic Arrangement. Chemistry of Materials, 2001, 13, 3754-3759.	3.2	122
79	In situ 2,5-pyrazinedicarboxylate and oxalate ligands synthesis leading to a microporous europiumâ€“organic framework capable of selective sensing of small molecules. CrystEngComm, 2010, 12, 4372.	1.3	121
80	A distinct reversible colorimetric and fluorescent low pH response on a water-stable zirconiumâ€“porphyrin metalâ€“organic framework. Chemical Communications, 2014, 50, 9636-9639.	2.2	120
81	Reactions and Reactivity of Coâ^'bpdc Coordination Polymers (bpdc = 4,4â€˜-biphenyldicarboxylate). Inorganic Chemistry, 2000, 39, 5333-5340.	1.9	119
82	Two-Dimensional Coordination Polymers with One-Dimensional Magnetic Chains:Â Hydrothermal Synthesis, Crystal Structure, and Magnetic and Thermal Properties of [MCl2(4,4â€˜-bipyridine)] (M = Fe,) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	117
83	A multifunctional microporous anionic metalâ€“organic framework for column-chromatographic dye separation and selective detection and adsorption of Cr³⁺. Journal of Materials Chemistry A, 2015, 3, 23426-23434.	5.2	117
84	Ultrafast room temperature synthesis of GrO@HKUST-1 composites with high CO2 adsorption capacity and CO2/N2 adsorption selectivity. Chemical Engineering Journal, 2016, 303, 231-237.	6.6	117
85	Chemical Rearrangement under Hydrothermal Conditions:Â Formation of Polymeric Chains (CuX)2(dpiz) and (CuX)3(dpiz) (X = Cl, Br; dpiz = Dipyrido[1,2-a:2â€˜,3â€˜-d]imidazole) and Crystal Structures of [(CuCl)2(C10H7N3)] and [(CuBr)3(C10H7N3)]. Inorganic Chemistry, 1998, 37, 4480-4481.	1.9	116
86	Three Models To Encapsulate Multicomponent Dyes into Nanocrystal Pores: A New Strategy for Generating High-Quality White Light. Journal of the American Chemical Society, 2019, 141, 14807-14813.	6.6	116
87	Nanocrystals of an Inorganic-Organic Hybrid Semiconductor: Formation of Uniform Nanobelts of [ZnSe](Diethylenetriamine)0.5 in a Ternary Solution. Advanced Materials, 2005, 17, 2799-2802.	11.1	112
88	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	3.7	112
89	A flexible MMOF exhibiting high selectivity for CO2 over N2, CH4 and other small gases. Chemical Communications, 2010, 46, 9152.	2.2	111
90	â„PM3: A Multifunctional Microporous MOF with Recyclable Framework and High H2 Binding Energy. Inorganic Chemistry, 2009, 48, 7165-7173.	1.9	109

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91	Construction of crystal defect sites in N-coordinated UiO-66 via mechanochemical in-situ N-doping strategy for highly selective adsorption of cationic dyes. Chemical Engineering Journal, 2019, 356, 329-340.	6.6	109
92	Synthesis, Structure Determination, and Hydrogen Sorption Studies of New Metalâ˜'Organic Frameworks Using Triazole and Naphthalenedicarboxylic Acid. Chemistry of Materials, 2007, 19, 1302-1308.	3.2	107
93	Selective, Sensitive, and Reversible Detection of Vapor-Phase High Explosives via Two-Dimensional Mapping: A New Strategy for MOF-Based Sensors. Crystal Growth and Design, 2013, 13, 4204-4207.	1.4	107
94	The Effect of Methyl Functionalization on Microporous Metalâ€Organic Frameworks' Capacity and Binding Energy for Carbon Dioxide Adsorption. Advanced Functional Materials, 2011, 21, 4754-4762.	7.8	106
95	Mn-Substituted Inorganicâ˜'Organic Hybrid Materials Based on ZnSe:â€‰ Nanostructures That May Lead to Magnetic Semiconductors with a Strong Quantum Confinement Effect. Nano Letters, 2001, 1, 521-525.	4.5	104
96	Understanding the Preferential Adsorption of CO₂ over N₂ in a Flexible Metalâ€“Organic Framework. Journal of the American Chemical Society, 2011, 133, 12849-12857.	6.6	103
97	One-of-a-kind: a microporous metalâ€“organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers via temperature- and adsorbate-dependent molecular sieving. Energy and Environmental Science, 2018, 11, 1226-1231.	15.6	103
98	Computational Study of Adsorption and Separation of CO₂, CH₄, and N₂ by an rht-Type Metalâ€“Organic Framework. Langmuir, 2012, 28, 12122-12133.	1.6	102
99	Controlled Synthesis and Magnetic Properties of 2D and 3D Iron Azide Networks $m{^{2}_{infty }}$[Fe(N3)2(4,4â€²-bpy)] and $m{^{3}_{infty }}$[Fe(N3)2(4,4â€²-bpy)]. Chemistry - A European Journal, 2002, 8, 2239.	1.7	99
100	Interaction of Acid Gases SO₂ and NO₂ with Coordinatively Unsaturated Metal Organic Frameworks: M-MOF-74 (M = Zn, Mg, Ni, Co). Chemistry of Materials, 2017, 29, 4227-4235.	3.2	99
101	Mechanism of Carbon Dioxide Adsorption in a Highly Selective Coordination Network Supported by Direct Structural Evidence. Angewandte Chemie - International Edition, 2013, 52, 1692-1695.	7.2	97
102	Nanocage-Based N-Rich Metalâ€“Organic Framework for Luminescence Sensing toward Fe³⁺ and Cu²⁺ Ions. Inorganic Chemistry, 2021, 60, 671-681.	1.9	97
103	Formation and characterization of solid dispersions of piroxicam and polyvinylpyrrolidone using spray drying and precipitation with compressed antisolvent. Journal of Pharmaceutical Sciences, 2009, 98, 2422-2431.	1.6	95
104	Vapor phase detection of nitroaromatic and nitroaliphatic explosives by fluorescence active metalâ€“organic frameworks. CrystEngComm, 2013, 15, 9745.	1.3	95
105	A Highly Hydrophobic Metalâ˜'Organic Framework Zn(BDC)(TED)0.5 for Adsorption and Separation of CH3OH/H2O and CO2/CH4: An Integrated Experimental and Simulation Study. Journal of Physical Chemistry C, 2010, 114, 6602-6609.	1.5	94
106	Discrimination of xylene isomers in a stacked coordination polymer. Science, 2022, 377, 335-339.	6.0	94
107	A Reversible Structural Interconversion Involving [M(H2pdc)2(H2O)2]â‹…2 H2O (M=Mn, Fe, Co, Ni, Zn,) Tj ETQq1 1 0.784314 rgBT /O A European Journal, 2001, 7, 4431-4437.	1.7	93
108	Crystal of Semiconducting Quantum Dots Built on Covalently Bonded T5 [In28Cd6S54]-12:Â The Largest Supertetrahedral Cluster in Solid State. Journal of the American Chemical Society, 2002, 124, 12944-12945.	6.6	93

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109	A 3D Porous Cobaltâ^'Organic Framework Exhibiting Spin-Canted Antiferromagnetism and Field-Induced Spin-Flop Transition. Inorganic Chemistry, 2007, 46, 9609-9615.	1.9	91
110	Efficient kinetic separation of propene and propane using two microporous metal organic frameworks. Chemical Communications, 2017, 53, 9332-9335.	2.2	91
111	Adsorption and Diffusion of Hydrogen in a New Metalâ^'Organic Framework Material:â€‰ [Zn(bdc)(ted)0.5]. Journal of Physical Chemistry C, 2008, 112, 2911-2917.	1.5	89
112	Interaction of Molecular Hydrogen with Microporous Metal Organic Framework Materials at Room Temperature. Journal of the American Chemical Society, 2010, 132, 1654-1664.	6.6	88
113	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. Chemistry of Materials, 2016, 28, 1636-1646.	3.2	87
114	Bipyridinium Arrayâ€Type Porous Polymer Displaying Hydrogen Storage, Chargeâ€Transferâ€Type Guest Inclusion, and Tunable Magnetic Properties. Chemistry - A European Journal, 2009, 15, 11890-11897.	1.7	85
115	Assessing Surface Permeabilities from Transient Guest Profiles in Nanoporous Host Materials. Angewandte Chemie - International Edition, 2009, 48, 3525-3528.	7.2	82
116	Nanostructured Crystals:Â Unique Hybrid Semiconductors Exhibiting Nearly Zero and Tunable Uniaxial Thermal Expansion Behavior. Journal of the American Chemical Society, 2007, 129, 14140-14141.	6.6	81
117	Tuning and Enhancing White Light Emission of IIâ€“VI Based Inorganicâ€“Organic Hybrid Semiconductors as Single-Phased Phosphors. Chemistry of Materials, 2012, 24, 1710-1717.	3.2	81
118	The first pillared three-dimensional structure constructed by carboxylate ligands bridging heterometallic trilayers. Chemical Communications, 2001, , 105-106.	2.2	79
119	3D Metalâ^'Organic Frameworks Based on Elongated Tetracarboxylate Building Blocks for Hydrogen Storage. Inorganic Chemistry, 2008, 47, 3955-3957.	1.9	78
120	Flexible Hybrid Semiconductors with Low Thermal Conductivity: The Role of Organic Diamines. Angewandte Chemie - International Edition, 2009, 48, 7871-7874.	7.2	78
121	A novel two-dimensional mercury antimony telluride: low temperature synthesis and characterization of RbHgSbTe3. Journal of Alloys and Compounds, 1997, 262-263, 28-33.	2.8	76
122	Assessing Guest Diffusivities in Porous Hosts from Transient Concentration Profiles. Physical Review Letters, 2009, 102, 065901.	2.9	76
123	Luminescent inorganic-organic hybrid semiconductor materials for energy-saving lighting applications. EnergyChem, 2019, 1, 100008.	10.1	76
124	A high connectivity metalâ€“organic framework with exceptional hydrogen and methane uptake capacities. Chemical Science, 2012, 3, 3032.	3.7	75
125	Argon Adsorption on Cu3(Benzene-1,3,5-tricarboxylate)2(H2O)3Metalâ^'Organic Framework. Langmuir, 2007, 23, 3106-3109.	1.6	74
126	Chromophore-Based Luminescent Metalâ€“Organic Frameworks as Lighting Phosphors. Inorganic Chemistry, 2016, 55, 7250-7256.	1.9	74

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127	Defect Termination in the UiO-66 Family of Metalâ€“Organic Frameworks: The Role of Water and Modulator. Journal of the American Chemical Society, 2021, 143, 6328-6332.	6.6	74
128	Multilevel Data Storage Memory Devices Based on the Controlled Capacitive Coupling of Trapped Electrons. Advanced Materials, 2011, 23, 2064-2068.	11.1	73
129	Blending Ionic and Coordinate Bonds in Hybrid Semiconductor Materials: A General Approach toward Robust and Solution-Processable Covalent/Coordinate Network Structures. Journal of the American Chemical Society, 2020, 142, 4242-4253.	6.6	72
130	Pore Distortion in a Metalâ€“Organic Framework for Regulated Separation of Propane and Propylene. Journal of the American Chemical Society, 2021, 143, 19300-19305.	6.6	72
131	Strong Negative Thermal Expansion along the Oâ^'Cuâ^'O Linkage in CuScO2. Chemistry of Materials, 2002, 14, 2602-2606.	3.2	71
132	Chromophore-immobilized luminescent metalâ€“organic frameworks as potential lighting phosphors and chemical sensors. Chemical Communications, 2016, 52, 10249-10252.	2.2	70
133	A Systematic Approach to Building Highly Porous, Noninterpenetrating Metalâ€“Organic Frameworks with a Large Capacity for Adsorbing H₂ and CH₄. Advanced Functional Materials, 2011, 21, 993-998.	7.8	68
134	Cu-TDPAT, an rht-Type Dual-Functional Metalâ€“Organic Framework Offering Significant Potential for Use in H₂ and Natural Gas Purification Processes Operating at High Pressures. Journal of Physical Chemistry C, 2012, 116, 16609-16618.	1.5	68
135	Synthesis, structure characterization and magnetic properties of tellurostannates [M(en)32(Sn2Te6) (M = Mn, Zn). Inorganica Chimica Acta, 1998, 273, 310-315.	1.2	66
136	Innovative application of metal-organic frameworks for encapsulation and controlled release of allyl isothiocyanate. Food Chemistry, 2017, 221, 926-935.	4.2	64
137	Exploring Tellurides: Synthesis and Characterization of New Binary, Ternary, and Quaternary Compounds. Journal of Solid State Chemistry, 1995, 117, 247-255.	1.4	62
138	Crystallizing Atomic Xenon in a Flexible MOF to Probe and Understand Its Temperature-Dependent Breathing Behavior and Unusual Gas Adsorption Phenomenon. Journal of the American Chemical Society, 2020, 142, 20088-20097.	6.6	62
139	Review. Solvothermal Synthesis of Multifunctional Coordination Polymers. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 976-998.	0.3	61
140	Molecular Hydrogen â€œPairingâ€•Interaction in a Metal Organic Framework System with Unsaturated Metal Centers (MOF-74). Journal of the American Chemical Society, 2010, 132, 14834-14848.	6.6	61
141	Organically directed heterometallic chalcogenidometalates containing group 12(II)/13(III)/14(IV) metal ions and antimony(III). Coordination Chemistry Reviews, 2016, 322, 41-68.	9.5	61
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