

# Ryotaro Matsuda

## List of Publications by Citations

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159  
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15,095  
ext. citations

9.8  
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6.44  
L-index

#	Paper	IF	Citations
147	Highly controlled acetylene accommodation in a metal-organic microporous material. <i>Nature</i> , <b>2005</b> , 436, 238-41	50.4	1267
146	Three-dimensional porous coordination polymer functionalized with amide groups based on tridentate ligand: selective sorption and catalysis. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 2607-14	16.4	870
145	Chemistry of coordination space of porous coordination polymers. <i>Coordination Chemistry Reviews</i> , <b>2007</b> , 251, 2490-2509	23.2	800
144	A flexible interpenetrating coordination framework with a bimodal porous functionality. <i>Nature Materials</i> , <b>2007</b> , 6, 142-8	27	701
143	Self-accelerating CO sorption in a soft nanoporous crystal. <i>Science</i> , <b>2014</b> , 343, 167-70	33.3	371
142	Expanding and shrinking porous modulation based on pillared-layer coordination polymers showing selective guest adsorption. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3269-72	16.4	363
141	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. <i>Nature Materials</i> , <b>2011</b> , 10, 787-93	27	351
140	Flexible microporous coordination polymers. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2420-2429	3.3	333
139	Functional Hybrid Porous Coordination Polymers. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 310-322	9.6	323
138	Immobilization of a metallo schiff base into a microporous coordination polymer. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2684-7	16.4	319
137	Guest-induced asymmetry in a metal-organic porous solid with reversible single-crystal-to-single-crystal structural transformation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17152-3	16.4	309
136	Exceptional thermal stability in a supramolecular organic framework: porosity and gas storage. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14457-69	16.4	281
135	An Adsorbate Discriminatory Gate Effect in a Flexible Porous Coordination Polymer for Selective Adsorption of CO <sub>2</sub> over C <sub>2</sub> H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3022-30	16.4	278
134	Selective sorption of oxygen and nitric oxide by an electron-donating flexible porous coordination polymer. <i>Nature Chemistry</i> , <b>2010</b> , 2, 633-7	17.6	277
133	Guest-to-host transmission of structural changes for stimuli-responsive adsorption property. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4501-4	16.4	276
132	A pillared-layer coordination polymer with a rotatable pillar acting as a molecular gate for guest molecules. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12792-800	16.4	274
131	Guest shape-responsive fitting of porous coordination polymer with shrinkable framework. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 14063-70	16.4	274

130	Cellulose hydrolysis by a new porous coordination polymer decorated with sulfonic acid functional groups. <i>Advanced Materials</i> , <b>2011</b> , 23, 3294-7	24	258
129	Heterogeneously hybridized porous coordination polymer crystals: fabrication of heterometallic core-shell single crystals with an in-plane rotational epitaxial relationship. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1766-70	16.4	256
128	Nanochannels of two distinct cross-sections in a porous Al-based coordination polymer. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13664-72	16.4	255
127	Dynamic motion of building blocks in porous coordination polymers. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7226-30	16.4	216
126	Effect of functional groups in MIL-101 on water sorption behavior. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 157, 89-93	5.3	210
125	Direct observation of hydrogen molecules adsorbed onto a microporous coordination polymer. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 920-3	16.4	198
124	Rational design and crystal structure determination of a 3-D metal-organic jungle-gym-like open framework. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 6522-4	5.1	194
123	Photo-induced valence tautomerism in Co complexes. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 361-9	24.3	177
122	Control of interpenetration for tuning structural flexibility influences sorption properties. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7660-4	16.4	173
121	Photoactivation of a nanoporous crystal for on-demand guest trapping and conversion. <i>Nature Materials</i> , <b>2010</b> , 9, 661-6	27	171
120	Soft secondary building unit: dynamic bond rearrangement on multinuclear core of porous coordination polymers in gas media. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9005-13	16.4	160
119	Guest-specific function of a flexible undulating channel in a 7,7,8,8-tetracyano-p-quinodimethane dimer-based porous coordination polymer. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10990-1	16.4	158
118	Amine-responsive adaptable nanospaces: fluorescent porous coordination polymer for molecular recognition. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11772-7	16.4	153
117	Immobilization of sodium ions on the pore surface of a porous coordination polymer. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 4222-3	16.4	132
116	TCNQ dianion-based coordination polymer whose open framework shows charge-transfer type guest inclusion. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16416-7	16.4	130
115	Highly proton conductive nanoporous coordination polymers with sulfonic acid groups on the pore surface. <i>Chemical Communications</i> , <b>2014</b> , 50, 1144-6	5.8	110
114	Selective CO <sub>2</sub> uptake and inverse CO <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> selectivity in a dynamic bifunctional metal-organic framework. <i>Chemical Science</i> , <b>2012</b> , 3, 2993	9.4	104
113	Metastable sorption state of a metal-organic porous material determined by in situ synchrotron powder diffraction. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4932-6	16.4	101

112	Highly Porous and Stable Coordination Polymers as Water Sorption Materials. <i>Chemistry Letters</i> , <b>2010</b> , 39, 360-361	1.7	96
111	A crystalline porous coordination polymer decorated with nitroxyl radicals catalyzes aerobic oxidation of alcohols. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7543-6	16.4	91
110	Expanding and Shrinking Porous Modulation Based on Pillared-Layer Coordination Polymers Showing Selective Guest Adsorption. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3331-3334	3.6	91
109	Density Gradation of Open Metal Sites in the Mesospace of Porous Coordination Polymers. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11576-11583	16.4	90
108	A pillared-bilayer porous coordination polymer with a 1D channel and a 2D interlayer space, showing unique gas and vapor sorption. <i>Chemical Communications</i> , <b>2011</b> , 47, 8106-8	5.8	89
107	New Interpenetrated Copper Coordination Polymer Frameworks having Porous Properties. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5860-5866	9.6	88
106	Temperature responsive channel uniformity impacts on highly guest-selective adsorption in a porous coordination polymer. <i>Chemical Science</i> , <b>2010</b> , 1, 315	9.4	82
105	Modification of flexible part in Cu(2+) interdigitated framework for CH(4)/CO(2) separation. <i>Chemical Communications</i> , <b>2010</b> , 46, 9229-31	5.8	82
104	Storage and sorption properties of acetylene in jungle-gym-like open frameworks. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 1343-9	4.5	80
103	Porous coordination polymers with ubiquitous and biocompatible metals and a neutral bridging ligand. <i>Nature Communications</i> , <b>2015</b> , 6, 5851	17.4	78
102	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22756-22762	16.4	73
101	Relationship between channel and sorption properties in coordination polymers with interdigitated structures. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 5138-44	4.8	71
100	Metal-Organic Polyhedral Core as a Versatile Scaffold for Divergent and Convergent Star Polymer Synthesis. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6525-31	16.4	71
99	Self-assembly of lattices with high structural complexity from a geometrically simple molecule. <i>Science</i> , <b>2018</b> , 361, 1242-1246	33.3	71
98	Systematic mechanochemical preparation of a series of coordination pillared layer frameworks. <i>Dalton Transactions</i> , <b>2012</b> , 41, 3956-61	4.3	69
97	The RIKEN Materials Science Beamline at SPring-8: Towards Visualization of Electrostatic Interaction <b>2010</b> ,		66
96	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1798-1802	3.6	65
95	Rhodium-Organic Cuboctahedra as Porous Solids with Strong Binding Sites. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10843-10846	5.1	64

94	Photochemical cycloaddition on the pore surface of a porous coordination polymer impacts the sorption behavior. <i>Chemical Communications</i> , <b>2012</b> , 48, 7919-21	5.8	64
93	Immobilization of a Metallo Schiff Base into a Microporous Coordination Polymer. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2738-2741	3.6	64
92	Formation and characterization of crystalline molecular arrays of gas molecules in a 1-dimensional ultramicropore of a porous copper coordination polymer. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 23378-85	3.4	63
91	Reversible chemisorption of sulfur dioxide in a spin crossover porous coordination polymer. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12777-83	5.1	61
90	Flexible interlocked porous frameworks allow quantitative photoisomerization in a crystalline solid. <i>Nature Communications</i> , <b>2017</b> , 8, 100	17.4	60
89	Bistability of magnetization without spin-transition in a high-spin cobalt(II) complex due to angular momentum quenching. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 4560-1	16.4	56
88	Catalytic glucose isomerization by porous coordination polymers with open metal sites. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 2772-7	4.5	49
87	Impact of metal-ion dependence on the porous and electronic properties of TCNQ-dianion-based porous coordination polymers. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 172-7	5.1	49
86	A porous coordination polymer with accessible metal sites and its complementary coordination action. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4985-9	4.8	49
85	Highly responsive nature of porous coordination polymer surfaces imaged by in situ atomic force microscopy. <i>Nature Chemistry</i> , <b>2019</b> , 11, 109-116	17.6	49
84	Cooperative Bond Scission in a Soft Porous Crystal Enables Discriminatory Gate Opening for Ethylene over Ethane. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18313-18321	16.4	47
83	Dynamic Motion of Building Blocks in Porous Coordination Polymers. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7384-7388	3.6	46
82	Accelerated CH/CO Separation by a Se-Functionalized Porous Coordination Polymer with Low Binding Energy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3764-3772	9.5	42
81	Crystal Dynamics in Multi-stimuli-Responsive Entangled Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 15864-15873	4.8	39
80	Selective NO trapping in the pores of chain-type complex assemblies based on electronically activated paddlewheel-type [Ru <sub>2</sub> (II,II)]/[Rh <sub>2</sub> (II,II)] dimers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18469-80	16.4	38
79	Control of Interpenetration for Tuning Structural Flexibility Influences Sorption Properties. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7826-7830	3.6	38
78	Theoretical Insight into Gate-Opening Adsorption Mechanism and Sigmoidal Adsorption Isotherm into Porous Coordination Polymer. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13958-13969	16.4	38
77	In situ generation of functionality in a reactive haloalkane-based ligand for the design of new porous coordination polymers. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10735-7	5.1	37

- 76 Topological difference in 2D layers steers the formation of rigid and flexible 3D supramolecular isomers: impact on the adsorption properties. *Inorganic Chemistry*, **2012**, 51, 9141-3 5.1 36
- 75 Flexibility of Porous Coordination Polymers Strongly Linked to Selective Sorption Mechanism. *Chemistry of Materials*, **2010**, 22, 4129-4131 9.6 36
- 74 Systematic Construction of Porous Coordination Pillared-layer Structures and Their Sorption Properties. *Chemistry Letters*, **2010**, 39, 218-219 1.7 35
- 73 Gas-responsive porous magnet distinguishes the electron spin of molecular oxygen. *Nature Communications*, **2018**, 9, 5420 17.4 32
- 72 Materials chemistry: Selectivity from flexibility. *Nature*, **2014**, 509, 434-5 50.4 31
- 71 Metastable Sorption State of a Metal-Organic Porous Material Determined by In Situ Synchrotron Powder Diffraction. *Angewandte Chemie*, **2006**, 118, 5054-5058 3.6 31
- 70 Direct Observation of Hydrogen Molecules Adsorbed onto a Microporous Coordination Polymer. *Angewandte Chemie*, **2005**, 117, 942-945 3.6 31
- 69 A Convenient Strategy for Designing a Soft Nanospace: An Atomic Exchange in a Ligand with Isostructural Frameworks. *Journal of the American Chemical Society*, **2015**, 137, 15825-32 16.4 30
- 68 Switchable gate-opening effect in metal-organic polyhedra assemblies through solution processing. *Chemical Science*, **2018**, 9, 6463-6469 9.4 30
- 67 Motion of methanol adsorbed in porous coordination polymer with paramagnetic metal ions. *Chemical Communications*, **2004**, 2152-3 5.8 29
- 66 Dynamic Topochemical Reaction Tuned by Guest Molecules in the Nanospace of a Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 15742-15746 16.4 28
- 65 Design and Synthesis of Porous Coordination Polymers Showing Unique Guest Adsorption Behaviors. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 1117-1131 5.1 27
- 64 Chemical reaction-inspired crystal growth of a coordination polymer toward morphology design and control. *Journal of the American Chemical Society*, **2006**, 128, 15799-808 16.4 27
- 63 Grafting Free Carboxylic Acid Groups onto the Pore Surface of 3D Porous Coordination Polymers for High Proton Conductivity. *Chemistry of Materials*, **2019**, 31, 8494-8503 9.6 26
- 62 Amine-Responsive Adaptable Nanospaces: Fluorescent Porous Coordination Polymer for Molecular Recognition. *Angewandte Chemie*, **2014**, 126, 11966-11971 3.6 26
- 61 Chemistry of porous coordination polymers having multimodal nanospace and their multimodal functionality. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 3-20 1.3 25
- 60 Periodic molecular boxes in entangled enantiomeric lcy nets. *Chemical Communications*, **2010**, 46, 4142-4 5.8 25
- 59 Magnetic Properties of Molecular Oxygen Adsorbed in Micro-Porous Metal-Organic Solids. *Progress of Theoretical Physics Supplement*, **2005**, 159, 271-279 24

58	Constant Volume Gate-Opening by Freezing Rotational Dynamics in Microporous Organically Pillared Layered Silicates. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 904-909	16.4	23
57	Incommensurate guest adsorption in bellows-shaped one-dimensional channels of porous coordination polymers. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 129, 296-303	5.3	23
56	CO <sub>2</sub> superabsorption in a paddlewheel-type Ru dimer chain compound: gate-open performance dependent on inter-chain interactions. <i>Chemical Communications</i> , <b>2013</b> , 49, 1594-6	5.8	22
55	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22944-22950	3.6	21
54	An Open-shell, Luminescent, Two-Dimensional Coordination Polymer with a Honeycomb Lattice and Triangular Organic Radical. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 4329-4338	16.4	21
53	Dynamics of guests in microporous coordination polymers studied by solid state NMR and X-ray analysis. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 156, 725-732	1.8	20
52	Kinetics of Water Vapor Adsorption and Desorption in MIL-101 Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 387-398	3.8	18
51	Remarkable Oxygen Intake/Release of BaYMn <sub>2</sub> O <sub>5</sub> Viewed from High-Temperature Crystal Structure. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2356-2363	3.8	16
50	Inclusion and dielectric properties of a vinylidene fluoride oligomer in coordination nanochannels. <i>Dalton Transactions</i> , <b>2012</b> , 41, 4195-8	4.3	16
49	The densely fluorinated nanospace of a porous coordination polymer composed of perfluorobutyl-functionalized ligands. <i>Chemical Communications</i> , <b>2014</b> , 50, 10861-3	5.8	15
48	High CO /CH <sub>4</sub> Selectivity of a Flexible Copper(II) Porous Coordination Polymer under Humid Conditions. <i>ChemPlusChem</i> , <b>2015</b> , 80, 1517-1524	2.8	15
47	Highly rigid and stable porous Cu(I) metal-organic framework with reversible single-crystal-to-single-crystal structural transformation. <i>CrystEngComm</i> , <b>2012</b> , 14, 4153	3.3	15
46	One-Step Synthesis of an Adaptive Nanographene MOF: Adsorbed Gas-Dependent Geometrical Diversity. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15649-15655	16.4	14
45	Creation of MOFs with open metal sites by partial replacement of metal ions with different coordination numbers. <i>Dalton Transactions</i> , <b>2019</b> , 48, 2545-2548	4.3	12
44	Pseudo-Gated Adsorption with Negligible Volume Change Evoked by Halogen-Bond Interaction in the Nanospace of MOFs. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2148-2153	4.8	11
43	Generation of thiyl radicals in a zinc(ii) porous coordination polymer by light-induced post-synthetic deprotection. <i>Chemical Communications</i> , <b>2018</b> , 54, 4782-4785	5.8	10
42	Characteristic Features of CO <sub>2</sub> and CO Adsorptions to Paddle-Wheel-type Porous Coordination Polymer. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19129-19139	3.8	10
41	Microwave-Assisted Hydrothermal Synthesis of [Al(OH)(1,4-NDC)] Membranes with Superior Separation Performances. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2072-2076	4.5	9

40	Spin-Dependent Molecular Orientation of O <sub>2</sub> D <sub>2</sub> Dimer Formed in the Nanoporous Coordination Polymer. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 084703	1.5	8
39	Electron Paramagnetic Resonance Study of Guest Molecule-Influenced Magnetism in Kagome Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27462-27467	3.8	7
38	Microporous structures having phenylene fin: Significance of substituent groups for rotational linkers in coordination polymers. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 189, 83-90	5.3	7
37	Coordination Programming in the Design of Porous Coordination Polymers: Tuning of the Electronic Activity of Frameworks for Selective Nitrogen Monoxide Trapping. <i>Chemistry Letters</i> , <b>2014</b> , 43, 890-892	1.7	7
36	Magnetic properties of nitric oxide molecules physisorbed into nano-sized pores of MCM-41. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 132, 464-469	5.3	7
35	Magnetic and photo-magnetic properties of Co dinuclear complexes. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 3659-3662	2.7	7
34	Purely Physisorption-Based CO-Selective Gate-Opening in Microporous Organically Pillared Layered Silicates. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 564-568	16.4	7
33	Reversible low-temperature redox activity and selective oxidation catalysis derived from the concerted activation of multiple metal species on Cr and Rh-incorporated ceria catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20868-20877	3.6	6
32	Insights into inorganic buffer layer-assisted in situ fabrication of MOF films with controlled microstructures. <i>CrystEngComm</i> , <b>2018</b> , 20, 6995-7000	3.3	6
31	Tuning the flexibility of interpenetrated frameworks by a small difference in the fluorene moiety. <i>Dalton Transactions</i> , <b>2017</b> , 46, 15200-15203	4.3	5
30	Selective Sensing of Fe <sup>3+</sup> Ions Using a Water-stable Magnesium Coordination Polymer. <i>Chemistry Letters</i> , <b>2019</b> , 48, 156-158	1.7	5
29	Direct observation of dimethyl sulfide trapped by MOF proving efficient removal of sulfur impurities.. <i>RSC Advances</i> , <b>2020</b> , 10, 4710-4714	3.7	4
28	Hindered rotation of methane molecules in the one-dimensional nanochannel of a porous coordination polymer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 69-76	1.3	4
27	Purely Physisorption-Based CO-Selective Gate-Opening in Microporous Organically Pillared Layered Silicates. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 573-577	3.6	4
26	Cover Picture: Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Single Crystals with an In-Plane Rotational Epitaxial Relationship (Angew. Chem. Int. Ed. 10/2009). <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1697-1697	16.4	3
25	Topochemical [2 + 2] Cycloaddition in a Two-Dimensional Metal-Organic Framework via SCSC Transformation Impacts Halogen-Halogen Interactions.. <i>Inorganic Chemistry</i> , <b>2022</b> ,	5.1	3
24	Synthetic Strategy for Incorporating Carboxylate Ligands into Coordination Polymers under a Solvent-Free Reaction. <i>Crystal Growth and Design</i> ,	3.5	3
23	Augmenting the Carbon Dioxide Uptake and Selectivity of Metal-Organic Frameworks by Metal Substitution: Molecular Simulations of LMOF-202. <i>ACS Omega</i> , <b>2020</b> , 5, 17193-17198	3.9	3



22	Triplet Carbene with Highly Enhanced Thermal Stability in the Nanospace of a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8129-8136	16.4	3
21	Molecular motion in the nanospace of MOFs upon gas adsorption investigated by in situ Raman spectroscopy. <i>Faraday Discussions</i> , <b>2021</b> , 225, 70-83	3.6	3
20	Water Confined in MIL-101(Cr): Unique Sorption/Desorption Behaviors Revealed by Diffuse Reflectance Infrared Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 17786-17795	3.8	3
19	Tetrametallic Ln(III) (Ln = Gd, Dy) phosphonate clusters: Spin cooler and single-molecule magnet. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 482, 900-904	2.7	2
18	Titelbild: Direct Observation of Hydrogen Molecules Adsorbed onto a Microporous Coordination Polymer (Angew. Chem. 6/2005). <i>Angewandte Chemie</i> , <b>2005</b> , 117, 851-851	3.6	2
17	Molecular simulation study on the flexibility in the interpenetrated metal-organic framework LMOF-201 using reactive force field. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16385-16391	13	2
16	Modulation of Self-Assembly Enhances the Catalytic Activity of Iron Porphyrin for CO Reduction. <i>Small</i> , <b>2021</b> , 17, e2006150	11	2
15	Fabrication of a Kagome-type MOF Membrane by Seeded Growth on Amino-functionalized Porous Al <sub>2</sub> O <sub>3</sub> Substrate. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 2018-2021	4.5	2
14	Trapping and Releasing of Oxygen in Liquid by Metal-Organic Framework with Light and Heat. <i>Small</i> , <b>2021</b> , 17, e2004351	11	2
13	CO <sub>2</sub> Storage on Metal-Organic Frameworks. <i>Green Energy and Technology</i> , <b>2019</b> , 331-358	0.6	1
12	Highly Selective Guest Adsorption in the Nanospace of Porous Coordination Polymers. <i>Bulletin of Japan Society of Coordination Chemistry</i> , <b>2011</b> , 57, 45-56	0.3	1
11	Cover Picture: Direct Observation of Hydrogen Molecules Adsorbed onto a Microporous Coordination Polymer (Angew. Chem. Int. Ed. 6/2005). <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 829-829	16.4	1
10	Novel Crystalline Porous Compounds Based on Metal Complexes-Structures and Functions. <i>Nihon Kessho Gakkaishi</i> , <b>2004</b> , 46, 53-58	0	1
9	Swift and Efficient Nuclear Spin Conversion of Molecular Hydrogen Confined in Prussian Blue Analogs. <i>Chemistry Letters</i> , <b>2020</b> , 49, 149-152	1.7	1
8	Delicate and Fast Photochemical Surface Modification of 2D Photoresponsive Organosilicon Metal-Organic Frameworks.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202204568	16.4	1
7	Cover Picture: Expanding and Shrinking Porous Modulation Based on Pillared-Layer Coordination Polymers Showing Selective Guest Adsorption (Angew. Chem. Int. Ed. 25/2004). <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3205-3205	16.4	
6	Titelbild: Expanding and Shrinking Porous Modulation Based on Pillared-Layer Coordination Polymers Showing Selective Guest Adsorption (Angew. Chem. 25/2004). <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3267-3267	3.6	
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