Christian Serre

List of Publications by Year
in descending order

390 papers	73,403 citations	613 124 h-index	582 262 g-index
425 all docs	425 docs citations	425 times ranked	30825 citing authors

#	Article	IF	Citations
1	A Chromium Terephthalate-Based Solid with Unusually Large Pore Volumes and Surface Area. Science, 2005, 309, 2040-2042.	6.0	4,615
2	Porous metalâ€“organic-framework nanoscale carriers as a potential platform for drug deliveryÂ and imaging. Nature Materials, 2010, 9, 172-178.	13.3	3,629
3	Metalâ€“Organic Frameworks in Biomedicine. Chemical Reviews, 2012, 112, 1232-1268.	23.0	3,593
4	A Rationale for the Large Breathing of the Porous Aluminum Terephthalate (MIL-53) Upon Hydration. Chemistry - A European Journal, 2004, 10, 1373-1382.	1.7	1,815
5	Very Large Breathing Effect in the First Nanoporous Chromium(III)-Based Solids: MIL-53 or CrIII(OH)Â·{O2Câˆ’C6H4âˆ’CO2}Â·{HO2Câˆ’C6H4âˆ’CO2H}xÂ·H2Oy. Journal of the American Chemical Society, 2002, 124, 13519-13526.	6.6	1,728
6	Metalâ€“Organic Frameworks as Efficient Materials for Drug Delivery. Angewandte Chemie - International Edition, 2006, 45, 5974-5978.	7.2	1,619
7	Flexible Porous Metal-Organic Frameworks for a Controlled Drug Delivery. Journal of the American Chemical Society, 2008, 130, 6774-6780.	6.6	1,564
8	Large breathing effects in three-dimensional porous hybrid matter: facts, analyses, rules and consequences. Chemical Society Reviews, 2009, 38, 1380.	18.7	1,513
9	Crystallized Frameworks with Giant Pores:â€‰ Are There Limits to the Possible?. Accounts of Chemical Research, 2005, 38, 217-225.	7.6	1,286
10	Synthesis and catalytic properties of MIL-100(Fe), an iron(iii) carboxylate with large pores. Chemical Communications, 2007, , 2820-2822.	2.2	1,218
11	A New Photoactive Crystalline Highly Porous Titanium(IV) Dicarboxylate. Journal of the American Chemical Society, 2009, 131, 10857-10859.	6.6	1,127
12	Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. Angewandte Chemie - International Edition, 2008, 47, 4144-4148.	7.2	1,111
13	BioMOFs: Metalâ€“Organic Frameworks for Biological and Medical Applications. Angewandte Chemie - International Edition, 2010, 49, 6260-6266.	7.2	1,074
14	High Uptakes of CO₂ and CH₄ in Mesoporous Metalâ€"Organic Frameworks MIL-100 and MIL-101. Langmuir, 2008, 24, 7245-7250.	1.6	1,067
15	Different Adsorption Behaviors of Methane and Carbon Dioxide in the Isotypic Nanoporous Metal Terephthalates MIL-53 and MIL-47. Journal of the American Chemical Society, 2005, 127, 13519-13521.	6.6	1,005
16	Role of Solvent-Host Interactions That Lead to Very Large Swelling of Hybrid Frameworks. Science, 2007, 315, 1828-1831.	6.0	918
17	Porous Chromium Terephthalate MILâ€101 with Coordinatively Unsaturated Sites: Surface Functionalization, Encapsulation, Sorption and Catalysis. Advanced Functional Materials, 2009, 19, 1537-1552.	7.8	861
18	A Hybrid Solid with Giant Pores Prepared by a Combination of Targeted Chemistry, Simulation, and Powder Diffraction. Angewandte Chemie - International Edition, 2004, 43, 6296-6301.	7.2	822

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19	Hydrogen Storage in the Giant-Pore Metalâ€“Organic Frameworks MIL-100 and MIL-101. Angewandte Chemie - International Edition, 2006, 45, 8227-8231.	7.2	716
20	Hydrogen adsorption in the nanoporous metal-benzenedicarboxylate M(OH)(O2Câ€“C6H4â€“CO2) (M =) Tj ETQq0 0 0 rgBT /Overlock	2.2	668
21	The new age of MOFs and of their porous-related solids. Chemical Society Reviews, 2017, 46, 3104-3107.	18.7	623
22	Microwave Synthesis of Chromium Terephthalate MIL-101 and Its Benzene Sorption Ability. Advanced Materials, 2007, 19, 121-124.	11.1	606
23	Why hybrid porous solids capture greenhouse gases?. Chemical Society Reviews, 2011, 40, 550-562.	18.7	603
24	Mixed-Valence Li/Fe-Based Metalâ€“Organic Frameworks with Both Reversible Redox and Sorption Properties. Angewandte Chemie - International Edition, 2007, 46, 3259-3263.	7.2	583
25	Cathode Composites for Liâ€“S Batteries via the Use of Oxygenated Porous Architectures. Journal of the American Chemical Society, 2011, 133, 16154-16160.	6.6	568
26	Controlled Reducibility of a Metalâ€“Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. Angewandte Chemie - International Edition, 2010, 49, 5949-5952.	7.2	526
27	An Explanation for the Very Large Breathing Effect of a Metalâ€“Organic Framework during CO₂ Adsorption. Advanced Materials, 2007, 19, 2246-2251.	11.1	501
28	A Route to the Synthesis of Trivalent Transition-Metal Porous Carboxylates with Trimeric Secondary Building Units. Angewandte Chemie - International Edition, 2004, 43, 6285-6289.	7.2	487
29	High-Throughput Assisted Rationalization of the Formation of Metal Organic Frameworks in the Iron(III) Aminoterephthalate Solvothermal System. Inorganic Chemistry, 2008, 47, 7568-7576.	1.9	480
30	Nanostructured metalâ€“organic frameworks and their bio-related applications. Coordination Chemistry Reviews, 2016, 307, 342-360.	9.5	476
31	Comparative Study of Hydrogen Sulfide Adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr), and MIL-101(Cr) Metalâ˘Organic Frameworks at Room Temperature. Journal of the American Chemical Society, 2009, 131, 8775-8777.	6.6	461
32	Nanoparticles of Metalâ€Organic Frameworks: On the Road to In Vivo Efficacy in Biomedicine. Advanced Materials, 2018, 30, e1707365.	11.1	459
33	A new isoreticular class of metal-organic-frameworks with the MIL-88 topology. Chemical Communications, 2006, , 284-286.	2.2	454
34	Functionalization in Flexible Porous Solids: Effects on the Pore Opening and the Hostâ˘Guest Interactions. Journal of the American Chemical Society, 2010, 132, 1127-1136.	6.6	445
35	High valence 3p and transition metal based MOFs. Chemical Society Reviews, 2014, 43, 6097-6115.	18.7	437
36	Synthesis, structure determination and properties of MIL-53as and MIL-53ht: the first Criii hybrid inorganicâ€“organic microporous solids: Criii(OH)Â·{O2Câ€“C6H4â€“CO2}Â·{HO2Câ€“C6H4â€“CO2H}xElectronic supplementary information (ESI) available: crystal data, atomic coordinates and metrical parameters for MIL-53as and MIL-53ht. See http://www.rsc.org/suppdata/cc/b2/b201381a/. Chemical Communications, 2002, , 822-823.	2.2	426

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37	MIL-103, A 3-D Lanthanide-Based Metal Organic Framework with Large One-Dimensional Tunnels and A High Surface Area. Journal of the American Chemical Society, 2005, 127, 12788-12789.	6.6	423
38	How Hydration Drastically Improves Adsorption Selectivity for CO2 over CH4 in the Flexible Chromium Terephthalate MIL-53. Angewandte Chemie - International Edition, 2006, 45, 7751-7754.	7.2	412
39	Rationale of Drug Encapsulation and Release from Biocompatible Porous Metalâ€“Organic Frameworks. Chemistry of Materials, 2013, 25, 2767-2776.	3.2	412
40	A Series of Isoreticular, Highly Stable, Porous Zirconium Oxide Based Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 9267-9271.	7.2	407
41	Co-adsorption and Separation of CO₂â˘'CH₄ Mixtures in the Highly Flexible MIL-53(Cr) MOF. Journal of the American Chemical Society, 2009, 131, 17490-17499.	6.6	398
42	An amino-modified Zr-terephthalate metalâ€“organic framework as an acidâ€“base catalyst for cross-aldol condensation. Chemical Communications, 2011, 47, 1521-1523.	2.2	392
43	How Linkerâ€™s Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. Journal of the American Chemical Society, 2011, 133, 17839-17847.	6.6	383
44	Functionalizing porous zirconium terephthalate UiO-66(Zr) for natural gas upgrading: a computational exploration. Chemical Communications, 2011, 47, 9603.	2.2	345
45	Investigation of Acid Sites in a Zeotypic Giant Pores Chromium(III) Carboxylate. Journal of the American Chemical Society, 2006, 128, 3218-3227.	6.6	343
46	First Direct Imaging of Giant Pores of the Metalâ˘'Organic Framework MIL-101. Chemistry of Materials, 2005, 17, 6525-6527.	3.2	331
47	In depth analysis of the in vivo toxicity of nanoparticles of porous iron(iii) metalâ€“organic frameworks. Chemical Science, 2013, 4, 1597.	3.7	313
48	Large scale fluorine-free synthesis of hierarchically porous iron(III) trimesate MIL-100(Fe) with a zeolite MTN topology. Microporous and Mesoporous Materials, 2012, 157, 137-145.	2.2	305
49	A Water Stable Metalâ€“Organic Framework with Optimal Features for CO₂ Capture. Angewandte Chemie - International Edition, 2013, 52, 10316-10320.	7.2	303
50	Energyâ€Efficient Dehumidification over Hierachically Porous Metalâ€“Organic Frameworks as Advanced Water Adsorbents. Advanced Materials, 2012, 24, 806-810.	11.1	298
51	Cytotoxicity of nanoscaled metalâ€“organic frameworks. Journal of Materials Chemistry B, 2014, 2, 262-271.	2.9	298
52	Very Large Swelling in Hybrid Frameworks:Â A Combined Computational and Powder Diffraction Study. Journal of the American Chemical Society, 2005, 127, 16273-16278.	6.6	293
53	Complex Adsorption of Short Linear Alkanes in the Flexible Metal-Organic-Framework MIL-53(Fe). Journal of the American Chemical Society, 2009, 131, 13002-13008.	6.6	281
54	Metalâ€“organic frameworks: a novel host platform for enzymatic catalysis and detection. Materials Horizons, 2017, 4, 55-63.	6.4	281

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55	Biodegradable therapeutic MOFs for the delivery of bioactive molecules. Chemical Communications, 2010, 46, 4526.	2.2	267
56	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. Chemical Communications, 2011, 47, 2838.	2.2	265
57	Optimisation of the synthesis of MOF nanoparticles made of flexible porous iron fumarate MIL-88A. Journal of Materials Chemistry, 2011, 21, 2220-2227.	6.7	263
58	Colloidal Route for Preparing Optical Thin Films of Nanoporous Metalâ€“Organic Frameworks. Advanced Materials, 2009, 21, 1931-1935.	11.1	257
59	Effect of NH2 and CF3 functionalization on the hydrogen sorption properties of MOFs. Dalton Transactions, 2011, 40, 4879.	1.6	257
60	Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66. Microporous and Mesoporous Materials, 2011, 139, 67-73.	2.2	257
61	A Hybrid Solid with Giant Pores Prepared by a Combination of Targeted Chemistry, Simulation, and Powder Diffraction. Angewandte Chemie, 2004, 116, 6456-6461.	1.6	256
62	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780.	11.1	253
63	Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). Journal of Materials Chemistry, 2011, 21, 1226-1233.	6.7	251
64	Prediction of the Conditions for Breathing of Metal Organic Framework Materials Using a Combination of X-ray Powder Diffraction, Microcalorimetry, and Molecular Simulation. Journal of the American Chemical Society, 2008, 130, 12808-12814.	6.6	246
65	Hydrocarbon Adsorption in the Flexible Metal Organic Frameworks MIL-53(Al, Cr). Journal of the American Chemical Society, 2008, 130, 16926-16932.	6.6	244
66	A zirconium methacrylate oxocluster as precursor for the low-temperature synthesis of porous zirconium(<scp>iv</scp>) dicarboxylates. Chemical Communications, 2010, 46, 767-769.	2.2	243
67	Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metalâ€“Organic Frameworks. Chemistry of Materials, 2013, 25, 1592-1599.	3.2	243
68	Titanium coordination compounds: from discrete metal complexes to metalâ€“organic frameworks. Chemical Society Reviews, 2017, 46, 3431-3452.	18.7	239
69	Synthesis of MIL-102, a Chromium Carboxylate Metalâˆ’Organic Framework, with Gas Sorption Analysis. Journal of the American Chemical Society, 2006, 128, 14889-14896.	6.6	229
70	Multistep N₂ Breathing in the Metalâˆ’Organic Framework Co(1,4-benzenedipyrazolate). Journal of the American Chemical Society, 2010, 132, 13782-13788.	6.6	220
71	A robust zirconium amino acid metal-organic framework for proton conduction. Nature Communications, 2018, 9, 4937.	5.8	218
72	A robust large-pore zirconium carboxylate metalâ€“organic framework for energy-efficient water-sorption-driven refrigeration. Nature Energy, 2018, 3, 985-993.	19.8	217

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73	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. ACS Catalysis, 2012, 2, 2060-2065.	5.5	213
74	The Structure of the Aluminum Fumarate Metalâ€“Organic Framework A520. Angewandte Chemie - International Edition, 2015, 54, 3664-3668.	7.2	206
75	Selective nitrogen capture by porous hybrid materials containing accessible transition metal ion sites. Nature Materials, 2017, 16, 526-531.	13.3	201
76	Using Pressure to Provoke the Structural Transition of Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2010, 49, 7526-7529.	7.2	200
77	Structure and Dynamics of the Functionalized MOF Type UiO-66(Zr): NMR and Dielectric Relaxation Spectroscopies Coupled with DFT Calculations. Chemistry of Materials, 2012, 24, 2168-2177.	3.2	200
78	How Water Fosters a Remarkable 5-Fold Increase in Low-Pressure CO₂ Uptake within Mesoporous MIL-100(Fe). Journal of the American Chemical Society, 2012, 134, 10174-10181.	6.6	198
79	Iron(<scp>iii</scp>) metalâ€“organic frameworks as solid Lewis acids for the isomerization of Î±-pinene oxide. Catalysis Science and Technology, 2012, 2, 324-330.	2.1	197
80	Catalytic transfer hydrogenation of ethyl levulinate to Î³-valerolactone over zirconium-based metalâ€“organic frameworks. Green Chemistry, 2016, 18, 4542-4552.	4.6	197
81	Infrared study of the influence of reducible iron(iii) metal sites on the adsorption of CO, CO2, propane, propene and propyne in the mesoporous metalâ€“organic framework MIL-100. Physical Chemistry Chemical Physics, 2011, 13, 11748.	1.3	192
82	An Evaluation of UiOâ€66 for Gasâ€Based Applications. Chemistry - an Asian Journal, 2011, 6, 3270-3280.	1.7	192
83	Synthesis, Structure, Characterization, and Redox Properties of the Porous MILâ€68(Fe) Solid. European Journal of Inorganic Chemistry, 2010, 2010, 3789-3794.	1.0	191
84	Structural Effects of Solvents on the Breathing of Metalâ€“Organic Frameworks: An In Situ Diffraction Study. Angewandte Chemie - International Edition, 2008, 47, 4100-4105.	7.2	189
85	Giant Pores in a Chromium 2,6â€Naphthalenedicarboxylate Openâ€Framework Structure with MILâ€101 Topology. Angewandte Chemie - International Edition, 2009, 48, 3791-3794.	7.2	189
86	Heparinâ€Engineered Mesoporous Iron Metalâ€Organic Framework Nanoparticles: Toward Stealth Drug Nanocarriers. Advanced Healthcare Materials, 2015, 4, 1246-1257.	3.9	187
87	Explanation of the Adsorption of Polar Vapors in the Highly Flexible Metal Organic Framework MIL-53(Cr). Journal of the American Chemical Society, 2010, 132, 9488-9498.	6.6	185
88	CH4 storage and CO2 capture in highly porous zirconium oxide based metalâ€“organic frameworks. Chemical Communications, 2012, 48, 9831.	2.2	180
89	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. Materials Today, 2019, 25, 88-111.	8.3	180
90	Green Microwave Synthesis of MILâ€100(Al, Cr, Fe) Nanoparticles for Thinâ€Film Elaboration. European Journal of Inorganic Chemistry, 2012, 2012, 5165-5174.	1.0	176

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91	Large breathing of the MOF MIL-47(VIV) under mechanical pressure: a joint experimentalâ€“modelling exploration. Chemical Science, 2012, 3, 1100.	3.7	176
92	Acid-functionalized UiO-66(Zr) MOFs and their evolution after intra-framework cross-linking: structural features and sorption properties. Journal of Materials Chemistry A, 2015, 3, 3294-3309.	5.2	174
93	Synthesis, Structure and Properties of Related MicroporousN,Nâ€˜-Piperazinebismethylenephosphonates of Aluminum and Titanium. Chemistry of Materials, 2006, 18, 1451-1457.	3.2	173
94	Understanding the Thermodynamic and Kinetic Behavior of the CO₂/CH₄ Gas Mixture within the Porous Zirconium Terephthalate UiO-66(Zr): A Joint Experimental and Modeling Approach. Journal of Physical Chemistry C, 2011, 115, 13768-13774.	1.5	166
95	<i>p</i>-Xylene-Selective Metalâ€“Organic Frameworks: A Case of Topology-Directed Selectivity. Journal of the American Chemical Society, 2011, 133, 18526-18529.	6.6	159
96	Selective Removal of Nâ€Heterocyclic Aromatic Contaminants from Fuels by Lewis Acidic Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2011, 50, 4210-4214.	7.2	159
97	Molecular Insight into the Adsorption of H₂S in the Flexible MIL-53(Cr) and Rigid MIL-47(V) MOFs: Infrared Spectroscopy Combined to Molecular Simulations. Journal of Physical Chemistry C, 2011, 115, 2047-2056.	1.5	157
98	In Situ Energy-Dispersive X-ray Diffraction for the Synthesis Optimization and Scale-up of the Porous Zirconium Terephthalate UiO-66. Inorganic Chemistry, 2014, 53, 2491-2500.	1.9	157
99	Quasiâ€Elastic Neutron Scattering and Molecular Dynamics Study of Methane Diffusion in Metal Organic Frameworks MILâ€47(V) and MILâ€53(Cr). Angewandte Chemie - International Edition, 2008, 47, 6611-6615.	7.2	154
100	Synthesis, characterisation and luminescent properties of a new three-dimensional lanthanide trimesate: M((C6H3)â€“(CO2)3) (M = Y, Ln) or MIL-78. Journal of Materials Chemistry, 2004, 14, 1540-1543.	6.7	152
101	Proton Transport in a Highly Conductive Porous Zirconiumâ€Based Metalâ€“Organic Framework: Molecular Insight. Angewandte Chemie - International Edition, 2016, 55, 3919-3924.	7.2	152
102	Isoreticular Homochiral Porous Metalâˆ’Organic Structures with Tunable Pore Sizes. Inorganic Chemistry, 2007, 46, 6843-6845.	1.9	151
103	Adsorption properties in high optical quality nanoZIF-8 thin films with tunable thickness. Journal of Materials Chemistry, 2010, 20, 7676.	6.7	151
104	Nanoscaled Zinc Pyrazolate Metalâ€“Organic Frameworks as Drug-Delivery Systems. Inorganic Chemistry, 2016, 55, 2650-2663.	1.9	147
105	Elaboration and properties of hierarchically structured optical thin films of MIL-101(Cr). Chemical Communications, 2009, , 7149.	2.2	146
106	An EXAFS study of the formation of a nanoporous metalâ€“organic framework: evidence for the retention of secondary building units during synthesis. Chemical Communications, 2006, , 1518.	2.2	145
107	Toxicity of metalâ€“organic framework nanoparticles: from essential analyses to potential applications. Chemical Society Reviews, 2022, 51, 464-484.	18.7	144
108	Towards acid MOFs â€“ catalytic performance of sulfonic acid functionalized architectures. Catalysis Science and Technology, 2013, 3, 2311.	2.1	141

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109	A â€œgreenâ€•strategy to construct non-covalent, stable and bioactive coatings on porous MOF nanoparticles. Scientific Reports, 2015, 5, 7925.	1.6	139
110	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. Chemical Communications, 2013, 49, 7773.	2.2	138
111	On the breathing effect of a metalâ€“organic framework upon CO2 adsorption: Monte Carlo compared to microcalorimetry experiments. Chemical Communications, 2007, , 3261.	2.2	137
112	Probing the Adsorption Sites for CO₂ in Metal Organic Frameworks Materials MIL-53 (Al,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	137
113	Probing the Dynamics of CO₂ and CH₄ within the Porous Zirconium Terephthalate UiOâ€66(Zr): A Synergic Combination of Neutron Scattering Measurements and Molecular Simulations. Chemistry - A European Journal, 2011, 17, 8882-8889.	1.7	137
114	A robust amino-functionalized titanium(iv) based MOF for improved separation of acid gases. Chemical Communications, 2013, 49, 10082.	2.2	135
115	A Zn azelate MOF: combining antibacterial effect. CrystEngComm, 2015, 17, 456-462.	1.3	134
116	An Adsorbent Performance Indicator as a First Step Evaluation of Novel Sorbents for Gas Separations: Application to Metalâ€“Organic Frameworks. Langmuir, 2013, 29, 3301-3309.	1.6	131
117	Synthesis and Characterization of a New Three-Dimensional Lanthanide Carboxyphosphonate:â€‰ Ln4(H2O)7[O2Câˆ'C5H10Nâˆ'CH2-PO3]4(H2O)5. Inorganic Chemistry, 2004, 43, 3159-3163.	1.9	130
118	Towards an Improved antiâ€HIV Activity of NRTI via Metalâ€“Organic Frameworks Nanoparticles. Advanced Healthcare Materials, 2013, 2, 1630-1637.	3.9	130
119	Hydrothermal Synthesis, Structure Determination, and Thermal Behavior of New Three-Dimensional Europium Terephthalates:Â MIL-51LT,HTand MIL-52 or Eu2n(OH)x(H2O)y(O2Câˆ'C6H4âˆ'CO2)z(n= III, III, II;x= 4,) Tj ETQq1 1 0.784314 r	3.2	129
120	Tuning the breathing behaviour of MIL-53 by cation mixing. Chemical Communications, 2012, 48, 10237.	2.2	129
121	Design of saltâ€“metal organic framework composites for seasonal heat storage applications. Journal of Materials Chemistry A, 2017, 5, 12889-12898.	5.2	129
122	Molecular Insight into the Adsorption and Diffusion of Water in the Versatile Hydrophilic/Hydrophobic Flexible MIL-53(Cr) MOF. Journal of Physical Chemistry C, 2011, 115, 10764-10776.	1.5	128
123	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. Nature Communications, 2018, 9, 1660.	5.8	128
124	Toward Understanding Drug Incorporation and Delivery from Biocompatible Metalâ€“Organic Frameworks in View of Cutaneous Administration. ACS Omega, 2018, 3, 2994-3003.	1.6	128
125	Enzyme Encapsulation in Mesoporous Metalâ€“Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. Angewandte Chemie - International Edition, 2018, 57, 16141-16146.	7.2	128
126	Dynamics of Benzene Rings in MILâ€53(Cr) and MILâ€47(V) Frameworks Studied by ²Hâ€…NMR Spectroscopy. Angewandte Chemie - International Edition, 2010, 49, 4791-4794.	7.2	127

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127	Effect of the organic functionalization of flexible MOFs on the adsorption of CO2. Journal of Materials Chemistry, 2012, 22, 10266.	6.7	125
128	Understanding the Colloidal Stability of the Mesoporous MIL-100(Fe) Nanoparticles in Physiological Media. Langmuir, 2014, 30, 5911-5920.	1.6	125
129	Probing the adsorption performance of the hybrid porous MIL-68(Al): a synergic combination of experimental and modelling tools. Journal of Materials Chemistry, 2012, 22, 10210.	6.7	124
130	Adsorption of CO2 in metal organic frameworks of different metal centres: Grand Canonical Monte Carlo simulations compared to experiments. Adsorption, 2007, 13, 461-467.	1.4	123
131	Metalâ€“organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). Chemical Communications, 2014, 50, 9462-9464.	2.2	122
132	Synthesis Optimization, Shaping, and Heat Reallocation Evaluation of the Hydrophilic Metalâ€“Organic Framework MILâ€160(Al). ChemSusChem, 2017, 10, 1419-1426.	3.6	122
133	Selective sulfoxidation of aryl sulfides by coordinatively unsaturated metal centers in chromium carboxylate MIL-101. Applied Catalysis A: General, 2009, 358, 249-253.	2.2	118
134	Rationalization of the entrapping of bioactive molecules into a series of functionalized porous zirconium terephthalate MOFs. Journal of Materials Chemistry B, 2013, 1, 1101.	2.9	118
135	Design of metal organic frameworkâ€“enzyme based bioelectrodes as a novel and highly sensitive biosensing platform. Journal of Materials Chemistry B, 2015, 3, 8983-8992.	2.9	118
136	A Smart Metalâ€“Organic Framework Nanomaterial for Lung Targeting. Angewandte Chemie - International Edition, 2017, 56, 15565-15569.	7.2	118
137	Evidence of CO2 molecule acting as an electron acceptor on a nanoporous metalâ€“organic-framework MIL-53 or Cr3+(OH)(O2Câ€“C6H4â€“CO2). Chemical Communications, 2007, , 3291.	2.2	117
138	A Robust Infinite Zirconium Phenolate Building Unit to Enhance the Chemical Stability of Zr MOFs. Angewandte Chemie - International Edition, 2015, 54, 13297-13301.	7.2	116
139	Chitosan-coated mesoporous MIL-100(Fe) nanoparticles as improved bio-compatible oral nanocarriers. Scientific Reports, 2017, 7, 43099.	1.6	114
140	Metal-Organic Frameworks as advanced moisture sorbents for energy-efficient high temperature cooling. Scientific Reports, 2018, 8, 15284.	1.6	113
141	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 4155-4162.	4.0	113
142	Synthesis, structure and properties of a three-dimensional porous rare-earth carboxylate MIL-83(Eu): Eu2(O2C-C10H14-CO2)3. Journal of Materials Chemistry, 2004, 14, 642-645.	6.7	112
143	Reverse Shape Selectivity in the Liquid-Phase Adsorption of Xylene Isomers in Zirconium Terephthalate MOF UiO-66. Langmuir, 2012, 28, 5715-5723.	1.6	112
144	Superhydrophobicity in Highly Fluorinated Porous Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 6048-6050.	7.2	112

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145	Transport Diffusivity of CO₂ in the Highly Flexible Metalâ€“Organic Framework MILâ€53(Cr). Angewandte Chemie - International Edition, 2009, 48, 8335-8339.	7.2	109
146	Self and Transport Diffusivity of CO₂ in the Metalâˆ’Organic Framework MIL-47(V) Explored by Quasi-elastic Neutron Scattering Experiments and Molecular Dynamics Simulations. ACS Nano, 2010, 4, 143-152.	7.3	109
147	A Method for Screening the Potential of MOFs as CO₂ Adsorbents in Pressure Swing Adsorption Processes. ChemSusChem, 2012, 5, 762-776.	3.6	109
148	Evidence of Photoinduced Charge Separation in the Metalâ€“Organic Framework MILâ€•125(Ti)â€NH₂. ChemPhysChem, 2012, 13, 3651-3654.	1.0	103
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