Christian Serre

List of Publications by Citations

393 papers	61,819 citations	117 h-index	243 g-index
425 ext. papers	67,457 ext. citations	9.6 avg, IF	7.69 L-index

#	Paper	IF	Citations
393	A chromium terephthalate-based solid with unusually large pore volumes and surface area. *Science*, **2005**, 309, 2040-2	33.3	4003
392	Metal-organic frameworks in biomedicine. *Chemical Reviews*, **2012**, 112, 1232-68	68.1	3131
391	Porous metal-organic-framework nanoscale carriers as a potential platform for drug delivery and imaging. *Nature Materials*, **2010**, 9, 172-8	27	3109
390	Very large breathing effect in the first nanoporous chromium(III)-based solids: MIL-53 or Cr(III)(OH) x [O(2)C-C(6)H(4)-CO(2)] x [HO(2)C-C(6)H(4)-CO(2)H](x) x H(2)O(y). *Journal of the American Chemical Society*, **2002**, 124, 13519-26	16.4	1537
389	A rationale for the large breathing of the porous aluminum terephthalate (MIL-53) upon hydration. *Chemistry - A European Journal*, **2004**, 10, 1373-82	4.8	1531
388	Metal-organic frameworks as efficient materials for drug delivery. *Angewandte Chemie - International Edition*, **2006**, 45, 5974-8	16.4	1432
387	Large breathing effects in three-dimensional porous hybrid matter: facts, analyses, rules and consequences. *Chemical Society Reviews*, **2009**, 38, 1380-99	58.5	1373
386	Flexible porous metal-organic frameworks for a controlled drug delivery. *Journal of the American Chemical Society*, **2008**, 130, 6774-80	16.4	1369
385	Crystallized frameworks with giant pores: are there limits to the possible?. *Accounts of Chemical Research*, **2005**, 38, 217-25	24.3	1245
384	Amine grafting on coordinatively unsaturated metal centers of MOFs: consequences for catalysis and metal encapsulation. *Angewandte Chemie - International Edition*, **2008**, 47, 4144-8	16.4	1031
383	Synthesis and catalytic properties of MIL-100(Fe), an iron(III) carboxylate with large pores. *Chemical Communications*, **2007**, 2820-2	5.8	997
382	High uptakes of CO2 and CH4 in mesoporous metal-organic frameworks MIL-100 and MIL-101. *Langmuir*, **2008**, 24, 7245-50	4	968
381	BioMOFs: metal-organic frameworks for biological and medical applications. *Angewandte Chemie - International Edition*, **2010**, 49, 6260-6	16.4	932
380	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, 13519-21	16.4	917
379	A new photoactive crystalline highly porous titanium(IV) dicarboxylate. *Journal of the American Chemical Society*, **2009**, 131, 10857-9	16.4	888
378	Role of solvent-host interactions that lead to very large swelling of hybrid frameworks. *Science*, **2007**, 315, 1828-31	33.3	818
377	Porous Chromium Terephthalate MIL-101 with Coordinatively Unsaturated Sites: Surface Functionalization, Encapsulation, Sorption and Catalysis. *Advanced Functional Materials*, **2009**, 19, 1537-1552	15.6	748

376	A hybrid solid with giant pores prepared by a combination of targeted chemistry, simulation, and powder diffraction. *Angewandte Chemie - International Edition*, **2004**, 43, 6296-301	16.4	723
375	Hydrogen storage in the giant-pore metal-organic frameworks MIL-100 and MIL-101. *Angewandte Chemie - International Edition*, **2006**, 45, 8227-31	16.4	681
374	Hydrogen adsorption in the nanoporous metal-benzenedicarboxylate M(OH)(O2C-C6H4-CO2) (M = Al3+, Cr3+), MIL-53. *Chemical Communications*, **2003**, 2976-7	5.8	629
373	Why hybrid porous solids capture greenhouse gases?. *Chemical Society Reviews*, **2011**, 40, 550-62	58.5	562
372	Mixed-valence li/fe-based metal-organic frameworks with both reversible redox and sorption properties. *Angewandte Chemie - International Edition*, **2007**, 46, 3259-63	16.4	518
371	Microwave Synthesis of Chromium Terephthalate MIL-101 and Its Benzene Sorption Ability. *Advanced Materials*, **2007**, 19, 121-124	24	516
370	Cathode composites for Li-S batteries via the use of oxygenated porous architectures. *Journal of the American Chemical Society*, **2011**, 133, 16154-60	16.4	512
369	Metal□Organic Frameworks as Efficient Materials for Drug Delivery. *Angewandte Chemie*, **2006**, 118, 6120-6124	3.6	469
368	An Explanation for the Very Large Breathing Effect of a Metal□Organic Framework during CO2 Adsorption. *Advanced Materials*, **2007**, 19, 2246-2251	24	460
367	Controlled reducibility of a metal-organic framework with coordinatively unsaturated sites for preferential gas sorption. *Angewandte Chemie - International Edition*, **2010**, 49, 5949-52	16.4	430
366	A route to the synthesis of trivalent transition-metal porous carboxylates with trimeric secondary building units. *Angewandte Chemie - International Edition*, **2004**, 43, 6285-9	16.4	421
365	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, 12788-9	16.4	400
364	Comparative study of hydrogen sulfide adsorption in the MIL-53(Al, Cr, Fe), MIL-47(V), MIL-100(Cr), and MIL-101(Cr) metal-organic frameworks at room temperature. *Journal of the American Chemical Society*, **2009**, 131, 8775-7	16.4	399
363	High-throughput assisted rationalization of the formation of metal organic frameworks in the Iron(III) aminoterephthalate solvothermal system. *Inorganic Chemistry*, **2008**, 47, 7568-76	5.1	392
362	Functionalization in flexible porous solids: effects on the pore opening and the host-guest interactions. *Journal of the American Chemical Society*, **2010**, 132, 1127-36	16.4	384
361	How hydration drastically improves adsorption selectivity for CO(2) over CH(4) in the flexible chromium terephthalate MIL-53. *Angewandte Chemie - International Edition*, **2006**, 45, 7751-4	16.4	384
360	Nanostructured metal□organic frameworks and their bio-related applications. *Coordination Chemistry Reviews*, **2016**, 307, 342-360	23.2	382
359	A new isoreticular class of metal-organic-frameworks with the MIL-88 topology. *Chemical Communications*, **2006**, 284-6	5.8	381

358	Synthesis, structure determination and properties of MIL-53as and MIL-53ht: the first CrIII hybrid inorganic-organic microporous solids: CrIII(OH).(O2C-C6H4-CO2).(HO2C-C6H4-CO2H)x. *Chemical Communications*, **2002**, 822-3	5.8	378
357	A series of isoreticular, highly stable, porous zirconium oxide based metal-organic frameworks. *Angewandte Chemie - International Edition*, **2012**, 51, 9267-71	16.4	366
356	Co-adsorption and separation of CO2-CH4 mixtures in the highly flexible MIL-53(Cr) MOF. *Journal of the American Chemical Society*, **2009**, 131, 17490-9	16.4	365
355	An amino-modified Zr-terephthalate metal-organic framework as an acid-base catalyst for cross-aldol condensation. *Chemical Communications*, **2011**, 47, 1521-3	5.8	358
354	Rationale of Drug Encapsulation and Release from Biocompatible Porous Metal–Organic Frameworks. *Chemistry of Materials*, **2013**, 25, 2767-2776	9.6	345
353	High valence 3p and transition metal based MOFs. *Chemical Society Reviews*, **2014**, 43, 6097-115	58.5	339
352	Nanoparticles of Metal-Organic Frameworks: On the Road to In Vivo Efficacy in Biomedicine. *Advanced Materials*, **2018**, 30, e1707365	24	325
351	Investigation of acid sites in a zeotypic giant pores chromium(III) carboxylate. *Journal of the American Chemical Society*, **2006**, 128, 3218-27	16.4	309
350	How linker's modification controls swelling properties of highly flexible iron(III) dicarboxylates MIL-88. *Journal of the American Chemical Society*, **2011**, 133, 17839-47	16.4	307
349	Functionalizing porous zirconium terephthalate UiO-66(Zr) for natural gas upgrading: a computational exploration. *Chemical Communications*, **2011**, 47, 9603-5	5.8	298
348	A water stable metal-organic framework with optimal features for CO2 capture. *Angewandte Chemie - International Edition*, **2013**, 52, 10316-20	16.4	265
347	First Direct Imaging of Giant Pores of the Metal–Organic Framework MIL-101. *Chemistry of Materials*, **2005**, 17, 6525-6527	9.6	255
346	Complex adsorption of short linear alkanes in the flexible metal-organic-framework MIL-53(Fe). *Journal of the American Chemical Society*, **2009**, 131, 13002-8	16.4	249
345	In depth analysis of the in vivo toxicity of nanoparticles of porous iron(III) metal–organic frameworks. *Chemical Science*, **2013**, 4, 1597	9.4	245
344	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	5.3	240
343	Very large swelling in hybrid frameworks: a combined computational and powder diffraction study. *Journal of the American Chemical Society*, **2005**, 127, 16273-8	16.4	239
342	Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid. *Chemical Communications*, **2011**, 47, 2838-40	5.8	238
341	Energy-efficient dehumidification over hierachically porous metal-organic frameworks as advanced water adsorbents. *Advanced Materials*, **2012**, 24, 806-10	24	237

340	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, 12808-14	16.4	236
339	Biodegradable therapeutic MOFs for the delivery of bioactive molecules. *Chemical Communications*, **2010**, 46, 4526-8	5.8	235
338	Colloidal Route for Preparing Optical Thin Films of Nanoporous Metal–Organic Frameworks. *Advanced Materials*, **2009**, 21, 1931-1935	24	228
337	Hydrocarbon adsorption in the flexible metal organic frameworks MIL-53(Al, Cr). *Journal of the American Chemical Society*, **2008**, 130, 16926-32	16.4	223
336	Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66. *Microporous and Mesoporous Materials*, **2011**, 139, 67-73	5.3	220
335	A Hybrid Solid with Giant Pores Prepared by a Combination of Targeted Chemistry, Simulation, and Powder Diffraction. *Angewandte Chemie*, **2004**, 116, 6456-6461	3.6	219
334	Effect of NH2 and CF3 functionalization on the hydrogen sorption properties of MOFs. *Dalton Transactions*, **2011**, 40, 4879-81	4.3	218
333	Cytotoxicity of nanoscaled metal-organic frameworks. *Journal of Materials Chemistry B*, **2014**, 2, 262-271	7.3	217
332	Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). *Journal of Materials Chemistry*, **2011**, 21, 1226-1233		216
331	Synthesis of MIL-102, a chromium carboxylate metal-organic framework, with gas sorption analysis. *Journal of the American Chemical Society*, **2006**, 128, 14889-96	16.4	213
330	Metal–organic frameworks: a novel host platform for enzymatic catalysis and detection. *Materials Horizons*, **2017**, 4, 55-63	14.4	207
329	Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metal–Organic Frameworks. *Chemistry of Materials*, **2013**, 25, 1592-1599	9.6	199
328	A zirconium methacrylate oxocluster as precursor for the low-temperature synthesis of porous zirconium(IV) dicarboxylates. *Chemical Communications*, **2010**, 46, 767-9	5.8	199
327	Optimisation of the synthesis of MOF nanoparticles made of flexible porous iron fumarate MIL-88A. *Journal of Materials Chemistry*, **2011**, 21, 2220-2227		197
326	Multistep N2 breathing in the metal-organic framework co(1,4-benzenedipyrazolate). *Journal of the American Chemical Society*, **2010**, 132, 13782-8	16.4	197
325	Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. *Angewandte Chemie*, **2008**, 120, 4212-4216	3.6	182
324	Structural effects of solvents on the breathing of metal-organic frameworks: an in situ diffraction study. *Angewandte Chemie - International Edition*, **2008**, 47, 4100-5	16.4	180
323	Titanium coordination compounds: from discrete metal complexes to metal-organic frameworks. *Chemical Society Reviews*, **2017**, 46, 3431-3452	58.5	177

322	Giant pores in a chromium 2,6-naphthalenedicarboxylate open-framework structure with MIL-101 topology. *Angewandte Chemie - International Edition*, **2009**, 48, 3791-4	16.4	175
321	Using pressure to provoke the structural transition of metal-organic frameworks. *Angewandte Chemie - International Edition*, **2010**, 49, 7526-9	16.4	175
320	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, 10174-81	16.4	170
319	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, 9488-98	16.4	169
318	Design of hydrophilic metal organic framework water adsorbents for heat reallocation. *Advanced Materials*, **2015**, 27, 4775-80	24	168
317	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	13.1	167
316	Iron(III) metal□organic frameworks as solid Lewis acids for the isomerization of □-pinene oxide. *Catalysis Science and Technology*, **2012**, 2, 324-330	5.5	164
315	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	9.6	163
314	An evaluation of UiO-66 for gas-based applications. *Chemistry - an Asian Journal*, **2011**, 6, 3270-80	4.5	158
313	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3789-3794	2.3	157
312	The structure of the aluminum fumarate metal-organic framework A520. *Angewandte Chemie - International Edition*, **2015**, 54, 3664-8	16.4	155
311	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	3.8	154
310	Synthesis, Structure and Properties of Related MicroporousN,N□-Piperazinebismethylenephosphonates of Aluminum and Titanium. *Chemistry of Materials*, **2006**, 18, 1451-1457	9.6	154
309	CH4 storage and CO2 capture in highly porous zirconium oxide based metal-organic frameworks. *Chemical Communications*, **2012**, 48, 9831-3	5.8	150
308	Infrared study of the influence of reducible iron(III) metal sites on the adsorption of CO, CO2, propane, propene and propyne in the mesoporous metal-organic framework MIL-100. *Physical Chemistry Chemical Physics*, **2011**, 13, 11748-56	3.6	150
307	Catalytic transfer hydrogenation of ethyl levulinate to □-valerolactone over zirconium-based metal□organic frameworks. *Green Chemistry*, **2016**, 18, 4542-4552	10	149
306	Large breathing of the MOF MIL-47(VIV) under mechanical pressure: a joint experimental□modelling exploration. *Chemical Science*, **2012**, 3, 1100	9.4	149
305	Isoreticular homochiral porous metal-organic structures with tunable pore sizes. *Inorganic Chemistry*, **2007**, 46, 6843-5	5.1	146

304	Selective removal of N-heterocyclic aromatic contaminants from fuels by lewis acidic metal-organic frameworks. *Angewandte Chemie - International Edition*, **2011**, 50, 4210-4	16.4	145
303	Quasi-elastic neutron scattering and molecular dynamics study of methane diffusion in metal organic frameworks MIL-47(V) and MIL-53(Cr). *Angewandte Chemie - International Edition*, **2008**, 47, 6611-5	16.4	145
302	p-Xylene-selective metal-organic frameworks: a case of topology-directed selectivity. *Journal of the American Chemical Society*, **2011**, 133, 18526-9	16.4	142
301	Synthesis, characterisation and luminescent properties of a new three-dimensional lanthanide trimesate: M((C6H3)(CO2)3) (M = Y, Ln) or MIL-78. *Journal of Materials Chemistry*, **2004**, 14, 1540-1543		137
300	Heparin-engineered mesoporous iron metal-organic framework nanoparticles: toward stealth drug nanocarriers. *Advanced Healthcare Materials*, **2015**, 4, 1246-57	10.1	136
299	Adsorption properties in high optical quality nanoZIF-8 thin films with tunable thickness. *Journal of Materials Chemistry*, **2010**, 20, 7676		136
298	Selective nitrogen capture by porous hybrid materials containing accessible transition metal ion sites. *Nature Materials*, **2017**, 16, 526-531	27	135
297	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	13	135
296	An EXAFS study of the formation of a nanoporous metal-organic framework: evidence for the retention of secondary building units during synthesis. *Chemical Communications*, **2006**, 1518-20	5.8	135
295	Green Microwave Synthesis of MIL-100(Al, Cr, Fe) Nanoparticles for Thin-Film Elaboration. *European Journal of Inorganic Chemistry*, **2012**, 2012, 5165-5174	2.3	133
294	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	3.8	132
293	Elaboration and properties of hierarchically structured optical thin films of MIL-101(Cr). *Chemical Communications*, **2009**, 7149-51	5.8	131
292	On the breathing effect of a metal-organic framework upon CO(2) adsorption: Monte Carlo compared to microcalorimetry experiments. *Chemical Communications*, **2007**, 3261-3	5.8	131
291	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, 2491-500	5.1	130
290	A robust zirconium amino acid metal-organic framework for proton conduction. *Nature Communications*, **2018**, 9, 4937	17.4	130
289	Towards acid MOFs catalytic performance of sulfonic acid functionalized architectures. *Catalysis Science and Technology*, **2013**, 3, 2311	5.5	129
288	Probing the Adsorption Sites for CO2 in Metal Organic Frameworks Materials MIL-53 (Al, Cr) and MIL-47 (V) by Density Functional Theory. *Journal of Physical Chemistry C*, **2008**, 112, 514-520	3.8	129
287	A robust large-pore zirconium carboxylate metal organic framework for energy-efficient water-sorption-driven refrigeration. *Nature Energy*, **2018**, 3, 985-993	62.3	129

286	Synthesis and characterization of a new three-dimensional lanthanide carboxyphosphonate: Ln(4)(H(2)O)(7)[O(2)C-C(5)H(10)N-CH(2)(-)PO(3)](4)(H(2)O)(5). *Inorganic Chemistry*, **2004**, 43, 3159-63	5.1	126
285	Proton Transport in a Highly Conductive Porous Zirconium-Based Metal-Organic Framework: Molecular Insight. *Angewandte Chemie - International Edition*, **2016**, 55, 3919-24	16.4	123
284	A robust amino-functionalized titanium(iv) based MOF for improved separation of acid gases. *Chemical Communications*, **2013**, 49, 10082-4	5.8	123
283	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. *Chemical Communications*, **2013**, 49, 7773-5	5.8	120
282	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	3.8	119
281	Probing the dynamics of CO2 and CH4 within the porous zirconium terephthalate UiO-66(Zr): a synergic combination of neutron scattering measurements and molecular simulations. *Chemistry - A European Journal*, **2011**, 17, 8882-9	4.8	118
280	Adsorption of CO2 in metal organic frameworks of different metal centres: Grand Canonical Monte Carlo simulations compared to experiments. *Adsorption*, **2007**, 13, 461-467	2.6	118
279	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. *Materials Today*, **2019**, 25, 88-111	21.8	118
278	Hydrothermal Synthesis, Structure Determination, and Thermal Behavior of New Three-Dimensional Europium Terephthalates:´ MIL-51LT,HTand MIL-52 or Eu2n(OH)x(H2O)y(O2C□6H4□CO2)z(n= III, III, II;x= 4, 0, 0;y= 2, 0, 0;z= 1, 1, 2). *Chemistry of Materials*, **2002**, 14, 2409-2415	9.6	117
277	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. *Inorganic Chemistry*, **2016**, 55, 2650-63	5.1	116
276	Effect of the organic functionalization of flexible MOFs on the adsorption of CO2. *Journal of Materials Chemistry*, **2012**, 22, 10266		116
275	Dynamics of benzene rings in MIL-53(Cr) and MIL-47(V) frameworks studied by 2H NMR spectroscopy. *Angewandte Chemie - International Edition*, **2010**, 49, 4791-4	16.4	115
274	Hydrogen Storage in the Giant-Pore Metal□Organic Frameworks MIL-100 and MIL-101. *Angewandte Chemie*, **2006**, 118, 8407-8411	3.6	113
273	A "green" strategy to construct non-covalent, stable and bioactive coatings on porous MOF nanoparticles. *Scientific Reports*, **2015**, 5, 7925	4.9	111
272	Selective sulfoxidation of aryl sulfides by coordinatively unsaturated metal centers in chromium carboxylate MIL-101. *Applied Catalysis A: General*, **2009**, 358, 249-253	5.1	106
271	Evidence of CO(2) molecule acting as an electron acceptor on a nanoporous metal-organic-framework MIL-53 or Cr(3+)(OH)(O(2)C-C(6)H(4)-CO(2)). *Chemical Communications*, **2007**, 3291-3	5.8	105
270	Towards an improved anti-HIV activity of NRTI via metal-organic frameworks nanoparticles. *Advanced Healthcare Materials*, **2013**, 2, 1630-7	10.1	104
269	Rationalization of the entrapping of bioactive molecules into a series of functionalized porous zirconium terephthalate MOFs. *Journal of Materials Chemistry B*, **2013**, 1, 1101-1108	7.3	104

268	Tuning the breathing behaviour of MIL-53 by cation mixing. *Chemical Communications*, **2012**, 48, 10237-9	5.8	104
267	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		104
266	A Zn azelate MOF: combining antibacterial effect. *CrystEngComm*, **2015**, 17, 456-462	3.3	103
265	An adsorbent performance indicator as a first step evaluation of novel sorbents for gas separations: application to metal-organic frameworks. *Langmuir*, **2013**, 29, 3301-9	4	103
264	Mixed-Valence Li/Fe-Based Metal□Organic Frameworks with Both Reversible Redox and Sorption Properties. *Angewandte Chemie*, **2007**, 119, 3323-3327	3.6	103
263	How Hydration Drastically Improves Adsorption Selectivity for CO2 over CH4 in the Flexible Chromium Terephthalate MIL-53. *Angewandte Chemie*, **2006**, 118, 7915-7918	3.6	103
262	Transport diffusivity of CO2 in the highly flexible metal-organic framework MIL-53(Cr). *Angewandte Chemie - International Edition*, **2009**, 48, 8335-9	16.4	102
261	Understanding the colloidal stability of the mesoporous MIL-100(Fe) nanoparticles in physiological media. *Langmuir*, **2014**, 30, 5911-20	4	100
260	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. *Nature Communications*, **2018**, 9, 1660	17.4	98
259	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		98
258	Reverse shape selectivity in the liquid-phase adsorption of xylene isomers in zirconium terephthalate MOF UiO-66. *Langmuir*, **2012**, 28, 5715-23	4	98
257	Superhydrophobicity in highly fluorinated porous metal-organic frameworks. *Angewandte Chemie - International Edition*, **2012**, 51, 6048-50	16.4	98
256	Self and transport diffusivity of CO2 in the metal-organic framework MIL-47(V) explored by quasi-elastic neutron scattering experiments and molecular dynamics simulations. *ACS Nano*, **2010**, 4, 143-52	16.7	98
255	Design of metal organic framework-enzyme based bioelectrodes as a novel and highly sensitive biosensing platform. *Journal of Materials Chemistry B*, **2015**, 3, 8983-8992	7.3	97
254	Bio-MOFs: Metall-organische Gerüste für biologische und medizinische Anwendungen. *Angewandte Chemie*, **2010**, 122, 6400-6406	3.6	96
253	A Robust Infinite Zirconium Phenolate Building Unit to Enhance the Chemical Stability of Zr MOFs. *Angewandte Chemie - International Edition*, **2015**, 54, 13297-301	16.4	95
252	A Smart Metal-Organic Framework Nanomaterial for Lung Targeting. *Angewandte Chemie - International Edition*, **2017**, 56, 15565-15569	16.4	94
251	Experimental evidence supported by simulations of a very high H2 diffusion in metal organic framework materials. *Physical Review Letters*, **2008**, 100, 245901	7.4	94

250	Hydrothermal synthesis, thermal behaviour and structure determination from powder data of a porous three-dimensional europium trimesate: Eu3(H2O)(OH)6[C6H3(CO2)3]•3H2O or MIL-63. *Journal of Materials Chemistry*, **2002**, 12, 3053-3057		94
249	A method for screening the potential of MOFs as CO2 adsorbents in pressure swing adsorption processes. *ChemSusChem*, **2012**, 5, 762-76	8.3	91
248	Evidence of photoinduced charge separation in the metal-organic framework MIL-125(Ti)-NH2. *ChemPhysChem*, **2012**, 13, 3651-4	3.2	90
247	Metal-organic frameworks as potential shock absorbers: the case of the highly flexible MIL-53(Al). *Chemical Communications*, **2014**, 50, 9462-4	5.8	89
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245	Mixed-linker hybrid superpolyhedra for the production of a series of large-pore iron(III) carboxylate metal-organic frameworks. *Angewandte Chemie - International Edition*, **2013**, 52, 5056-60	16.4	86
244	Green scalable aerosol synthesis of porous metal-organic frameworks. *Chemical Communications*, **2013**, 49, 3848-50	5.8	85
243	Adsorption and Diffusion of H2 in the MOF Type Systems MIL-47(V) and MIL-53(Cr): A Combination of Microcalorimetry and QENS Experiments with Molecular Simulations. *Journal of Physical Chemistry C*, **2009**, 113, 7802-7812	3.8	85
242	Porous metal organic framework nanoparticles to address the challenges related to busulfan encapsulation. *Nanomedicine*, **2011**, 6, 1683-95	5.6	84
241	Single crystal X-ray diffraction studies of carbon dioxide and fuel-related gases adsorbed on the small pore scandium terephthalate metal organic framework, Sc2(O2CC6H4CO2)3. *Langmuir*, **2009**, 25, 3618-26	4	84
240	A Series of Isoreticular, Highly Stable, Porous Zirconium Oxide Based Metal□Organic Frameworks. *Angewandte Chemie*, **2012**, 124, 9401-9405	3.6	83
239	Creation of Controlled Br□sted Acidity on a Zeotypic Mesoporous Chromium(III) Carboxylate by Grafting Water and Alcohol Molecules. *Journal of Physical Chemistry C*, **2007**, 111, 383-388	3.8	83
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