

Thierry Loiseau

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#	Paper	IF	Citations
198	Open-Framework Inorganic Materials. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3268-3292	16.4	2057
197	A rationale for the large breathing of the porous aluminum terephthalate (MIL-53) upon hydration. <i>Chemistry - A European Journal</i> , 2004 , 10, 1373-82	4.8	1531
196	Different adsorption behaviors of methane and carbon dioxide in the isotypic nanoporous metal terephthalates MIL-53 and MIL-47. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13519-21	16.4	917
195	Hydrogen adsorption in the nanoporous metal-benzenedicarboxylate M(OH)(O ₂ C-C ₆ H ₄ -CO ₂) (M = Al ³⁺ , Cr ³⁺), MIL-53. <i>Chemical Communications</i> , 2003 , 2976-7	5.8	629
194	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. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8775-7	16.4	399
193	MIL-96, a porous aluminum trimesate 3D structure constructed from a hexagonal network of 18-membered rings and μ ₃ -oxo-centered trinuclear units. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10223-30	16.4	337
192	Synthesis and modification of a functionalized 3D open-framework structure with MIL-53 topology. <i>Inorganic Chemistry</i> , 2009 , 48, 3057-64	5.1	324
191	The crystal chemistry of uranium carboxylates. <i>Coordination Chemistry Reviews</i> , 2014 , 266-267, 69-109	23.2	293
190	Pd nanoparticles embedded into a metal-organic framework: synthesis, structural characteristics, and hydrogen sorption properties. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2991-7	16.4	290
189	Synthesis, Single-Crystal X-ray Microdiffraction, and NMR Characterizations of the Giant Pore Metal-Organic Framework Aluminum Trimesate MIL-100. <i>Chemistry of Materials</i> , 2009 , 21, 5695-5697	9.6	255
188	Anorganische Materialien mit offenen Gerüsten. <i>Angewandte Chemie</i> , 1999 , 111, 3466-3492	3.6	255
187	[Al ₄ (OH) ₂ (OCH ₃) ₄ (H ₂ N-bdc) ₃] x xH ₂ O: a 12-connected porous metal-organic framework with an unprecedented aluminum-containing brick. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5163-6	16.4	233
186	XRD and IR structural investigations of a particular breathing effect in the MOF-type gallium terephthalate MIL-53(Ga). <i>Dalton Transactions</i> , 2009 , 2241-9	4.3	229
185	Hydrocarbon adsorption in the flexible metal organic frameworks MIL-53(Al, Cr). <i>Journal of the American Chemical Society</i> , 2008 , 130, 16926-32	16.4	223
184	The Kagoml topology of the gallium and indium metal-organic framework types with a MIL-68 structure: synthesis, XRD, solid-state NMR characterizations, and hydrogen adsorption. <i>Inorganic Chemistry</i> , 2008 , 47, 11892-901	5.1	220
183	Al(30): A Giant Aluminum Polycation. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 511-514	16.4	188
182	Capture of iodine in highly stable metal-organic frameworks: a systematic study. <i>Chemical Communications</i> , 2013 , 49, 10320-2	5.8	186

181	Breathing transitions in MIL-53(Al) metal-organic framework upon xenon adsorption. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8314-7	16.4	161
180	A microdiffraction set-up for nanoporous metal-organic-framework-type solids. <i>Nature Materials</i> , 2007 , 6, 760-4	27	142
179	On the breathing effect of a metal-organic framework upon CO ₂ adsorption: Monte Carlo compared to microcalorimetry experiments. <i>Chemical Communications</i> , 2007 , 3261-3	5.8	131
178	Hydrothermal synthesis and crystal structure of a new three-dimensional aluminum-organic framework MIL-69 with 2,6-naphthalenedicarboxylate (ndc), Al(OH)(ndc)·H ₂ O. <i>Comptes Rendus Chimie</i> , 2005 , 8, 765-772	2.7	131
177	Probing the Adsorption Sites for CO ₂ in Metal Organic Frameworks Materials MIL-53 (Al, Cr) and MIL-47 (V) by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 514-520	3.8	129
176	Adsorption of CO ₂ in metal organic frameworks of different metal centres: Grand Canonical Monte Carlo simulations compared to experiments. <i>Adsorption</i> , 2007 , 13, 461-467	2.6	118
175	High-throughput aided synthesis of the porous metal-organic framework-type aluminum pyromellitate, MIL-121, with extra carboxylic acid functionalization. <i>Inorganic Chemistry</i> , 2010 , 49, 9852-62	5.1	116
174	Time-Resolved In-Situ Energy and Angular Dispersive X-ray Diffraction Studies of the Formation of the Microporous Gallophosphate ULM-5 under Hydrothermal Conditions. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1002-1015	16.4	116
173	Uranyl and/or rare-earth mellitates in extended organic-inorganic networks: a unique case of heterometallic cation-cation interaction with U(VI)?O-Ln(III) bonding (Ln = Ce, Nd). <i>Journal of the American Chemical Society</i> , 2012 , 134, 1275-83	16.4	112
172	Infrared Spectroscopy Investigation of the Acid Sites in the Metal Organic Framework Aluminum Trimesate MIL-100(Al). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5710-5719	3.8	107
171	Charge distribution in metal organic framework materials: transferability to a preliminary molecular simulation study of the CO ₂ adsorption in the MIL-53 (Al) system. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1059-63	3.6	106
170	Oxyfluorinated Microporous Compounds. <i>Journal of Solid State Chemistry</i> , 1994 , 111, 403-415	3.3	105
169	Thorium terephthalates coordination polymers synthesized in solvothermal DMF/H ₂ O system. <i>Inorganic Chemistry</i> , 2015 , 54, 2235-42	5.1	102
168	Three-dimensional MOF-type architectures with tetravalent uranium hexanuclear motifs (U ₆ O ₈). <i>Chemistry - A European Journal</i> , 2013 , 19, 5324-31	4.8	100
167	¹²⁹ Xe NMR study of the framework flexibility of the porous hybrid MIL-53(Al). <i>Journal of the American Chemical Society</i> , 2010 , 132, 11599-607	16.4	96
166	In Situ NMR, Ex Situ XRD and SEM Study of the Hydrothermal Crystallization of Nanoporous Aluminum Trimesates MIL-96, MIL-100, and MIL-110. <i>Chemistry of Materials</i> , 2012 , 24, 2462-2471	9.6	93
165	Occurrence of Uncommon Infinite Chains Consisting of Edge-Sharing Octahedra in a Porous Metal Organic Framework-Type Aluminum Pyromellitate Al ₄ (OH) ₈ [C ₁₀ O ₈ H ₂] (MIL-120): Synthesis, Structure, and Gas Sorption Properties. <i>Chemistry of Materials</i> , 2009 , 21, 5783-5791	9.6	90
164	Occurrence of an octanuclear motif of uranyl isophthalate with cation-cation interactions through edge-sharing connection mode. <i>Inorganic Chemistry</i> , 2011 , 50, 6243-9	5.1	87

- 163 Isomerization of the Prenucleation Building Unit during Crystallization of $\text{AlPO}_4\text{-CJ2}$: An MQMAS, CP-MQMAS, and HETCOR NMR Study. *Journal of the American Chemical Society*, **1999**, 121, 12148-12153 16.4 87
- 162 A microporous scandium terephthalate, $\text{Sc}_2(\text{O}_2\text{CC}_6\text{H}_4\text{CO}_2)_3$, with high thermal stability. *Chemical Communications*, **2005**, 3850-2 5.8 80
- 161 Six-Fold Coordinated Uranyl Cations in Extended Coordination Polymers. *Crystal Growth and Design*, **2012**, 12, 4641-4648 3.5 79
- 160 Order-disorder in the super-sodalite $\text{Zn}_3\text{Al}_6(\text{PO}_4)_{12} \cdot 4\text{tren} \cdot 17\text{H}_2\text{O}$ (MIL-74): a combined XRD-NMR assessment. *Journal of the American Chemical Society*, **2003**, 125, 9102-10 16.4 78
- 159 NMR of microporous compounds. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 158, 299-311 5.1 78
- 158 Series of mixed uranyl-lanthanide (Ce, Nd) organic coordination polymers with aromatic polycarboxylates linkers. *Inorganic Chemistry*, **2012**, 51, 9610-8 5.1 77
- 157 Structural Transitions and Flexibility during Dehydration/Rehydration Process in the MOF-type Aluminum Pyromellitate $\text{Al}_2(\text{OH})_2[\text{C}_{10}\text{O}_8\text{H}_2]$ (MIL-118). *Crystal Growth and Design*, **2009**, 9, 2927-2936 3.5 77
- 156 Uranyl/Pyromellitate Coordination Polymers: Toward Three-Dimensional Open Frameworks with Large Channel Systems. *Crystal Growth and Design*, **2012**, 12, 526-535 3.5 75
- 155 A new indium metal-organic 3D framework with 1,3,5-benzenetricarboxylate, MIL-96 (In), containing β -oxo-centered trinuclear units and a hexagonal 18-ring network. *Materials Research Bulletin*, **2006**, 41, 948-954 5.1 73
- 154 Isolation of the large {actinide}₃₈ poly-oxo cluster with uranium. *Journal of the American Chemical Society*, **2013**, 135, 15678-81 16.4 72
- 153 Revisiting the Uranyl-phthalate System: Isolation and Crystal Structures of Two Types of Uranyl/Organic Frameworks (UOF). *Crystal Growth and Design*, **2011**, 11, 1940-1947 3.5 72
- 152 Oxyfluorinated Microporous Compounds. I. Crystal Structure of $(\text{NH}_4)_{0.93}(\text{H}_3\text{O})_{0.07}\text{GaPO}_4(\text{OH})_{0.5}\text{F}_{0.5}$; Reexamination of the Structure of $\text{AlPO}_4\text{-CJ2}$. *Journal of Solid State Chemistry*, **1993**, 105, 179-190 3.3 71
- 151 Synthesis, crystal structure and ^{71}Ga solid state NMR of a MOF-type gallium trimesate (MIL-96) with β -oxo bridged trinuclear units and a hexagonal 18-ring network. *Microporous and Mesoporous Materials*, **2007**, 105, 111-117 5.3 70
- 150 A new open-framework fluorinated gallium phosphate with large 18-ring channels (MIL-31). *Chemical Communications*, **2000**, 943-944 5.8 69
- 149 Crystalline oxyfluorinated open-framework compounds: Silicates, metal phosphates, metal fluorides and metal-organic frameworks (MOF). *Journal of Fluorine Chemistry*, **2007**, 128, 413-422 2.1 67
- 148 ^{71}Ga NMR of reference GaIV, GaV, and GaVI compounds by MAS and QPASS, extension of gallium/aluminum NMR parameter correlation. *Solid State Nuclear Magnetic Resonance*, **1999**, 15, 159-69^{3.1} 66
- 147 Nanoporous Solids: How Do They Form? An In Situ Approach. *Chemistry of Materials*, **2014**, 26, 299-309 9.6 65
- 146 Probing ^{27}Al - ^{13}C proximities in metal-organic frameworks using dynamic nuclear polarization enhanced NMR spectroscopy. *Chemical Communications*, **2014**, 50, 933-5 5.8 63

145	[Al ₄ (OH) ₂ (OCH ₃) ₄ (H ₂ N-bdc) ₃] _x H ₂ O: A 12-Connected Porous Metal-Organic Framework with an Unprecedented Aluminum-Containing Brick. <i>Angewandte Chemie</i> , 2009 , 121, 5265-5268	3.6	62
144	Utilization of Cyclopentylamine as Structure-Directing Agent for the Formation of Fluorinated Gallium Phosphates Exhibiting Extra-Large-Pore Open Frameworks with 16-ring (ULM-16) and 18-ring Channels (MIL-46). <i>Chemistry of Materials</i> , 2002 , 14, 1340-1347	9.6	60
143	Synthesis and crystal structure of ULM-16, a new open-framework fluorinated gallium phosphate with 16-ring channels: Ga ₄ (PO ₄) ₄ F ₂ ·1.5NC ₆ H ₁₄ ·0.5H ₂ O·0.5H ₃ O. <i>Journal of Materials Chemistry</i> , 1996 , 6, 1073-1074		60
142	Monitoring the Activation Process of the Giant Pore MIL-100(Al) by Solid State NMR. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17934-17944	3.8	59
141	MIL-50, an open-framework GaPO with a periodic pattern of small water ponds and dry rubidium atoms: a combined XRD, NMR, and computational study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1912-22	16.4	57
140	Structural observations of heterometallic uranyl copper(II) carboxylates and their solid-state topotactic transformation upon dehydration. <i>Chemistry - A European Journal</i> , 2013 , 19, 2012-22	4.8	56
139	Synthesis and structural characterization of a new open-framework zinc terephthalate Zn ₃ (OH) ₂ (bdc) ₂ ·2DEF, with infinite Zn ₃ (OH) ₂ chains. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 621-628	3.3	56
138	Mixed Formate-Dicarboxylate Coordination Polymers with Tetravalent Uranium: Occurrence of Tetranuclear {U ₄ O ₄ } and Hexanuclear {U ₆ O ₄ (OH) ₄ } Motifs. <i>Crystal Growth and Design</i> , 2013 , 13, 3225-3231	3.5	54
137	Hydrothermal synthesis and structural characterization of a new organically templated germanate, Ge(10)O(21)(OH).N(4)C(6)H(21). <i>Inorganic Chemistry</i> , 2002 , 41, 3962-6	5.1	54
136	An in Situ Energy-Dispersive X-ray Diffraction Study of the Hydrothermal Crystallizations of Open-Framework Gallium Oxyfluorophosphates with the ULM-3 and ULM-4 Structures. <i>Chemistry of Materials</i> , 1999 , 11, 3201-3209	9.6	54
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134	Crystal Chemistry of Uranyl Carboxylate Coordination Networks Obtained in the Presence of Organic Amine Molecules. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1322-1332	2.3	52
133	An uranyl citrate coordination polymer with a 3D open-framework involving uranyl cation-cation interactions. <i>Dalton Transactions</i> , 2011 , 40, 2422-4	4.3	52
132	Is water templating nanoporous materials?. <i>Chemistry - A European Journal</i> , 2004 , 10, 1366-72	4.8	52
131	Syntheses and structures of the MOF-type series of metal 1,4,5,8-naphthalenetetracarboxylates M ₂ (OH) ₂ [C ₁₄ O ₈ H ₄] (Al, Ga, In) with infinite trans-connected MOF chains (MIL-122). <i>Solid State Sciences</i> , 2009 , 11, 1507-1512	3.4	50
130	Hydrothermal Crystallization of Three Calcium-Based Hybrid Solids with 2,6-Naphthalene- or 4,4'-Biphenyl-Dicarboxylates. <i>Crystal Growth and Design</i> , 2008 , 8, 685-689	3.5	49
129	The extra-framework sub-lattice of the metal-organic framework MIL-110: a solid-state NMR investigation. <i>Chemistry - A European Journal</i> , 2009 , 15, 3139-46	4.8	48
128	⁷¹ Ga Slow-CTMAS NMR and Crystal Structures of MOF-Type Gallium Carboxylates with Infinite Edge-Sharing Octahedra Chains (MIL-120 and MIL-124). <i>Chemistry of Materials</i> , 2011 , 23, 39-47	9.6	47

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- 125 The room-temperature crystallisation of a one-dimensional gallium fluorophosphate, $\text{Ga}(\text{HPO}_4)_2\text{F} \cdot \text{H}_3\text{N}(\text{CH}_2)_3\text{NH}_3 \cdot 12\text{H}_2\text{O}$, a precursor to three-dimensional microporous gallium fluorophosphates. *Chemical Communications*, **2000**, 203-204 5.8 46
- 124 Metal-organic-framework-type 1D-channel open network of a tetravalent uranium trimesate. *Inorganic Chemistry*, **2011**, 50, 11865-7 5.1 45
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- 122 ULM-18, a Fluorinated Gallium Phosphate with Perforated Layers: XRD and NMR, Structure Determination, and HF Localization in a D4R. *Journal of Physical Chemistry B*, **1998**, 102, 8588-8598 3.4 44
- 121 The direct heat measurement of mechanical energy storage metal-organic frameworks. *Angewandte Chemie - International Edition*, **2015**, 54, 4626-30 16.4 42
- 120 Real, virtual and not yet discovered porous structures using scale chemistry and/or simulation. A tribute to Sten Andersson. *Solid State Sciences*, **2003**, 5, 79-94 3.4 41
- 119 Crystal chemistry of aluminium carboxylates: From molecular species towards porous infinite three-dimensional networks. *Comptes Rendus Chimie*, **2015**, 18, 1350-1369 2.7 40
- 118 Observation and Reactivity of the Chainlike Species $([\text{Al}(\text{PO}_4)_2]_3)_n$ during the X-ray Diffraction Investigation of the Hydrothermal Synthesis of the Super-sodalite Sodium Aluminophosphate MIL-74 ($\text{Na}_2\text{Al}_7(\text{PO}_4)_{12} \cdot 4\text{H}_2\text{O} \cdot 16\text{Na}(\text{H}_2\text{O})$). *Journal of Physical Chemistry B*, **2004**, 108, 20020-20029 3.4 40
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- 116 Stability of metal-organic frameworks under gamma irradiation. *Chemical Communications*, **2016**, 52, 12502-12505 5.8 40
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- 111 Synthesis and structural characterization of the first neptunium based metal-organic frameworks incorporating $\{\text{NpO}\}$ hexanuclear clusters. *Chemical Communications*, **2018**, 54, 6979-6982 5.8 37
- 110 Coordination polymers of uranium(IV) terephthalates. *Dalton Transactions*, **2015**, 44, 2639-49 4.3 36

109	Synthesis and ab Initio Structure Determination from X-Ray Powder Diffraction of MIL-12, a New Layered Fluoroaluminophosphate Templated with 1,3 Diaminopropane: $[N_2C_3H_{12}]Al_2(PO_4)(OH)_x(F_5)_y$ ($x \neq 0$). <i>Journal of Solid State Chemistry</i> , 1999 , 147, 92-98	3-3	35
108	Iodine sequestration by thiol-modified MIL-53(Al). <i>CrystEngComm</i> , 2016 , 18, 8108-8114	3-3	35
107	Synthesis and Crystal Structure of a New VIV/VV Mixed Valence Microporous Compound $V_3P_2O_{13}(H_2O)_2, H_3N(CH_2)_3NH_3$. <i>Journal of Solid State Chemistry</i> , 1994 , 111, 416-421	3-3	34
106	Water-free neodymium 2,6-naphthalenedicarboxylates coordination complexes and their application as catalysts for isoprene polymerization. <i>Inorganic Chemistry</i> , 2012 , 51, 483-90	5-1	33
105	Formation of an intermediate during the hydrothermal synthesis of ULM-5 studied using time-resolved, in situ X-ray powder diffraction. <i>Chemical Communications</i> , 1997 , 521-522	5-8	32
104	Syntheses and ^{31}P NMR Studies of Cyclic Oxothiomolybdate(V) Molecular Rings: Exchange Properties and Crystal Structures of the Monophosphate Decamer $[(H_2PO_4)Mo_{10}S_{10}O_{10}(OH)_{11}(H_2O)_2]_{12}$ and the Diphosphate Dodecamer $[(H_2PO_4)_2Mo_{10}S_{10}O_{10}(OH)_{11}(H_2O)_2]_{12}$. <i>Inorganic Chemistry</i> , 1999 , 38, 2220-2228	4-8	32
103	Hydrothermal Crystallization of Uranyl Coordination Polymers Involving an Imidazolium Dicarboxylate Ligand: Effect of pH on the Nuclearity of Uranyl-Centered Subunits. <i>Inorganic Chemistry</i> , 2016 , 55, 8697-705	5-1	32
102	Lanthanide-based 0D and 2D molecular assemblies with the pyridazine-3,6-dicarboxylate linker. <i>CrystEngComm</i> , 2011 , 13, 251-258	3-3	31
101	Al ₃₀ : A Giant Aluminum Polycation. <i>Angewandte Chemie</i> , 2000 , 112, 521-524	3-6	31
100	Hydrothermal Synthesis and Structural Characterization of $(NH_4)GaPO_4F$, KTP-type and $(NH_4)_2Ga_2(PO_4)(HPO_4)F_3$, Pseudo-KTP-type Materials. <i>Chemistry of Materials</i> , 2000 , 12, 1393-1399	9-6	31
99	A new calcium trimellitate coordination polymer with a chain-like structure. <i>Solid State Sciences</i> , 2007 , 9, 455-458	3-4	30
98	Crystallization of a Large-Pore Three-Dimensional Gallium Fluorophosphate under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4552-4555	16-4	30
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93	Chemistry-structure-simulation or chemistry-simulation-structure sequences? The case of MIL-34, a new porous aluminophosphate. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9642-51	16-4	26
92	Dynamic sorption properties of Metal-Organic Frameworks for the capture of methyl iodide. <i>Microporous and Mesoporous Materials</i> , 2018 , 259, 244-254	5-3	25

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89	Synthesis of Coordination Polymers of Tetravalent Actinides (Uranium and Neptunium) with a Phthalate or Mellitate Ligand in an Aqueous Medium. <i>Inorganic Chemistry</i> , 2017 , 56, 2902-2913	5.1	24
88	Stabilization of Tetravalent 4f (Ce), 5d (Hf), or 5f (Th, U) Clusters by the [SiW9O34](10-) Polyoxometalate. <i>Inorganic Chemistry</i> , 2015 , 54, 8271-80	5.1	24
87	Tetrameric entity resulting from two distinct dinuclear uranyl-centered motifs bridged through μ -OH and pyridazine-3,6-dicarboxylate. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 429-432	3.1	24
86	Synthesis, characterization and structure determination of a new fluorogallophosphate (Mu-3) prepared in the presence of ethylene glycol as main solvent. <i>Microporous and Mesoporous Materials</i> , 1998 , 22, 43-55	5.3	24
85	Synthesis and Structure of Low-Dimensional Gallium Fluorodiphosphates Seen during the Crystallization of the Three-Dimensional Microporous Gallium Fluorophosphate ULM-3. <i>Chemistry of Materials</i> , 2002 , 14, 4448-4459	9.6	24
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83	Formation of a new type of uranium(iv) poly-oxo cluster {U} based on a controlled release of water esterification reaction. <i>Chemical Science</i> , 2018 , 9, 5021-5032	9.4	23
82	{Np} clusters: the missing link in the largest poly-oxo cluster series of tetravalent actinides. <i>Chemical Communications</i> , 2018 , 54, 10060-10063	5.8	23
81	Synthesis and structural characterization of metal-organic frameworks with the mellitate linker M ₂ (OH) ₂ [C ₁₂ O ₁₂ H ₂] ₂ ·2H ₂ O (M = Al, Ga, In) MIL-116. <i>Solid State Sciences</i> , 2013 , 26, 38-44	3.4	23
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- 1 Synthesis and Structural Characterization of Lanthanide-Containing Polytungsto-antimonate $[\{Sb_3(\mu_3-O)_2Ln(H_2O)Ln(H_2O)_2\}_2(SbW_{10}O_{37})_2(SbW_8O_{31})_2]_{22}$ Molecules Deriving from the Decomposition of the $[Sb_8W_{36}O_{132}]_{24}$ Macroanion. *European Journal of Inorganic Chemistry*, **2020**, 2020, 3837-3845 2.3