

# Christian Serre

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Impact of capping agent removal from Au NPs@MOF core-shell nanoparticle heterogeneous catalysts. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 3201-3205	13	3
392	Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications.. <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	17
391	Producing cold from heat with aluminum carboxylate-based metal-organic frameworks. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100730	6.1	0
390	Metal-organic frameworks as stationary phases for chromatography and solid phase extraction: A review. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 455, 214364	23.2	2
389	A zirconium metal-organic framework with SOC topological net for catalytic peptide bond hydrolysis.. <i>Nature Communications</i> , <b>2022</b> , 13, 1284	17.4	4
388	Degradation Mechanism of Porous Metal-Organic Frameworks by In Situ Atomic Force Microscopy. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	9
387	Multivariate Sulfonic-Based Titanium Metal-Organic Frameworks as Super-protonic Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20194-20200	9.5	3
386	Amine-functionalized metal-organic frameworks/epoxy nanocomposites: Structure-properties relationships. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51005	2.9	8
385	Solvent-exchange process in MOF ultrathin films and its effect on CO and methanol adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 590, 72-81	9.3	5
384	One-Step Room-Temperature Synthesis of Metal(IV) Carboxylate Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4328-4334	3.6	2
383	One-Step Room-Temperature Synthesis of Metal(IV) Carboxylate Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4282-4288	16.4	24
382	A Mesoporous Zirconium-Isophthalate Multifunctional Platform. <i>Matter</i> , <b>2021</b> , 4, 182-194	12.7	9
381	Robust and Environmentally Friendly MOFs <b>2021</b> , 1-31		
380	Metal-organic framework/graphene oxide composites for CO2 capture by microwave swing adsorption. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13135-13142	13	6
379	When drug nanocarriers miss their target: extracellular diffusion and cell uptake are not enough to be effective. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5407-5414	7.4	1
378	Metal-organic frameworks towards bio-medical applications. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5573-5894	6	
377	Natural abundance oxygen-17 solid-state NMR of metal organic frameworks enhanced by dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 2245-2251	3.6	5

376	Monodispersed MOF-808 Nanocrystals Synthesized via a Scalable Room-Temperature Approach for Efficient Heterogeneous Peptide Bond Hydrolysis. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7057-7066	9.6	9
375	Moisture-participating MOF thermal battery for heat reallocation between indoor environment and building-integrated photovoltaics. <i>Nano Energy</i> , <b>2021</b> , 87, 106224	17.1	4
374	MOFs industrialization: a complete assessment of production costs. <i>Faraday Discussions</i> , <b>2021</b> , 231, 326-341	3.6	16
373	Sequential installation of Fe(II) complexes in MOFs: towards the design of solvatochromic porous solids. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16826-16833	7.1	3
372	Formation of a Single-Crystal Aluminum-Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structure-Directing Agents. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10439-10444	3.6	1
371	Formation of a Single-Crystal Aluminum-Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10353-10358	16.4	16
370	Metal-organic frameworks for drug delivery: Degradation mechanism and in vivo fate <b>2020</b> , 467-489		4
369	Encapsulation of Microperoxidase-8 in MIL-101(Cr)-X Nanoparticles: Influence of Metal-Organic Framework Functionalization on Enzymatic Immobilization and Catalytic Activity. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3233-3243	5.6	10
368	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5135-5143	16.4	26
367	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5173-5181	3.6	8
366	Functional MOFs as theranostics <b>2020</b> , 397-423		2
365	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4155-4162	9.5	60
364	Toward a Rational Design of Titanium Metal-Organic Frameworks. <i>Matter</i> , <b>2020</b> , 2, 440-450	12.7	25
363	Highly Porous Hybrid Metal-Organic Nanoparticles Loaded with Gemcitabine Monophosphate: a Multimodal Approach to Improve Chemo- and Radiotherapy. <i>ChemMedChem</i> , <b>2020</b> , 15, 274-283	3.7	14
362	Metal-Organic Frameworks and Water: From Old Enemies to Friends. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 990-1003	14.8	13
361	A Robust Titanium Isophthalate Metal-Organic Framework for Visible-Light Photocatalytic CO <sub>2</sub> Methanation. <i>Chem</i> , <b>2020</b> , 6, 3409-3427	16.2	17
360	Hexane isomers separation on an isorecticular series of microporous Zr carboxylate metal organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17780-17789	13	5
359	Design of stable mixed-metal MIL-101(Cr/Fe) materials with enhanced catalytic activity for the Prins reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17002-17011	13	9

358	A new strontium bromide MOF composite with improved performance for solar energy storage application. <i>Journal of Energy Storage</i> , <b>2019</b> , 25, 100881	7.8	25
357	A Microporous Zirconium Metal-Organic Framework Based on trans-Aconitic Acid for Selective Carbon Dioxide Adsorption. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 2674-2679	2.3	9
356	A High Proton Conductive Hydrogen-Sulfate Decorated Titanium Carboxylate Metal-Organic Framework. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5776-5783	8.3	29
355	Modulation of the mechanical energy storage performance of the MIL-47(V) metal organic framework by ligand functionalization. <i>Dalton Transactions</i> , <b>2019</b> , 48, 1656-1661	4.3	12
354	Toward Green Production of Water-Stable Metal-Organic Frameworks Based on High-Valence Metals with Low Toxicities. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> ,	8.3	14
353	Tin-Carboxylate MOFs for Sugar Transformation into Methyl Lactate. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 2624-2629	2.3	13
352	Cellular Uptake, Intracellular Trafficking, and Stability of Biocompatible Metal-Organic Framework (MOF) Particles in Kupffer Cells. <i>Molecular Pharmaceutics</i> , <b>2019</b> , 16, 2315-2325	5.6	17
351	Multivariable Sieving and Hierarchical Recognition for Organic Toxics in Nonhomogeneous Channel of MOFs. <i>CheM</i> , <b>2019</b> , 5, 1337-1350	16.2	37
350	Ultrathin hydrophobic films based on the metal organic framework UiO-66-COOH(Zr). <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 654-665	3	4
349	Covalent and Selective Grafting of Polyethylene Glycol Brushes at the Surface of ZIF-8 for the Processing of Membranes for Pervaporation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6629-6639	8.3	35
348	A MOF-assisted phosphine free bifunctional iron complex for the hydrogenation of carbon dioxide, sodium bicarbonate and carbonate to formate. <i>Chemical Communications</i> , <b>2019</b> , 55, 4977-4980	5.8	27
347	Metal Organic Framework (MOF) Particles as Potential Bacteria-Mimicking Delivery Systems for Infectious Diseases: Characterization and Cellular Internalization in Alveolar Macrophages. <i>Pharmaceutical Research</i> , <b>2019</b> , 36, 53	4.5	24
346	Compartmentalized Encapsulation of Two Antibiotics in Porous Nanoparticles: an Efficient Strategy to Treat Intracellular Infections. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1800360	3.1	16
345	Enhancing microperoxidase activity and selectivity: immobilization in metal-organic frameworks. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2019</b> , 23, 718-728	1.8	5
344	Direct synthesis of robust hcp UiO-66(Zr) MOF using poly(ethylene terephthalate) waste as ligand source. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 290, 109674	5.3	26
343	Exploring the catalytic performance of a series of bimetallic MIL-100(Fe, Ni) MOFs. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20285-20292	13	37
342	Metal-organic frameworks for the capture of volatile organic compounds and toxic chemicals <b>2019</b> , 141-178		7
341	Heat properties of a hydrophilic carboxylate-based MOF for water adsorption applications. <i>Applied Thermal Engineering</i> , <b>2019</b> , 161, 114135	5.8	19

340	Enhancement of Ethane Selectivity in Ethane-Ethylene Mixtures by Perfluoro Groups in Zr-Based Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27410-27421	9.5	47
339	Engineering Structural Dynamics of Zirconium Metal-Organic Frameworks Based on Natural C4 Linkers. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17207-17216	16.4	36
338	Progress and challenges of graphene oxide/metal-organic composites. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 387, 262-272	23.2	62
337	MOF-derived carbonaceous materials enriched with nitrogen: Preparation and applications in adsorption and catalysis. <i>Materials Today</i> , <b>2019</b> , 25, 88-111	21.8	118
336	A spin crossover porous hybrid architecture for potential sensing applications. <i>Chemical Communications</i> , <b>2018</b> , 55, 194-197	5.8	22
335	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. <i>Nature Communications</i> , <b>2018</b> , 9, 1660	17.4	98
334	Metal-Organic Frameworks for Cultural Heritage Preservation: The Case of Acetic Acid Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13886-13894	9.5	17
333	Influence of Filler Pore Structure and Polymer on the Performance of MOF-Based Mixed-Matrix Membranes for CO Capture. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 7949-7956	4.8	33
332	Fabrication of ultrathin MIL-96(Al) films and study of CO adsorption/desorption processes using quartz crystal microbalance. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 88-96	9.3	15
331	A promising metal-organic framework (MOF), MIL-96(Al), for CO <sub>2</sub> separation under humid conditions. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2081-2090	13	51
330	The Stability of Metal-Organic Frameworks <b>2018</b> , 1-28		16
329	Toward Understanding Drug Incorporation and Delivery from Biocompatible Metal-Organic Frameworks in View of Cutaneous Administration. <i>ACS Omega</i> , <b>2018</b> , 3, 2994-3003	3.9	79
328	Computational structure determination of novel metal-organic frameworks. <i>Chemical Communications</i> , <b>2018</b> , 54, 10812-10815	5.8	22
327	Metal-Organic Frameworks as Efficient Oral Detoxifying Agents. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9581-9586	16.4	52
326	GraftFast Surface Engineering to Improve MOF Nanoparticles Furtiveness. <i>Small</i> , <b>2018</b> , 14, e1801900	11	41
325	Nanoparticles of Metal-Organic Frameworks: On the Road to In Vivo Efficacy in Biomedicine. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707365	24	325
324	Coordination polymers built up from an s-tetrazine derived ligand and rare-earth ions: from a sequential dimensional expansion to organic-inorganic energy transfer. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10715-10720	4.3	2
323	A robust zirconium amino acid metal-organic framework for proton conduction. <i>Nature Communications</i> , <b>2018</b> , 9, 4937	17.4	130

322	Adsorption equilibrium of xylene isomers and ethylbenzene on MIL-125(Ti)_NH <sub>2</sub> : the temperature influence on the para-selectivity. <i>Adsorption</i> , <b>2018</b> , 24, 715-724	2.6	7
321	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16373-16378	3.6	13
320	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16141-16146	16.4	80
319	MgTi(cat) <sub>3</sub> , a promising precursor for the preparation of TiMOFs?. <i>Polyhedron</i> , <b>2018</b> , 156, 111-115	2.7	3
318	Metal-Organic Frameworks as advanced moisture sorbents for energy-efficient high temperature cooling. <i>Scientific Reports</i> , <b>2018</b> , 8, 15284	4.9	70
317	A robust large-pore zirconium carboxylate metal-organic framework for energy-efficient water-sorption-driven refrigeration. <i>Nature Energy</i> , <b>2018</b> , 3, 985-993	62.3	129
316	Synthesis Optimization, Shaping, and Heat Reallocation Evaluation of the Hydrophilic Metal-Organic Framework MIL-160(Al). <i>ChemSusChem</i> , <b>2017</b> , 10, 1419-1426	8.3	74
315	Screening the Effect of Water Vapour on Gas Adsorption Performance: Application to CO Capture from Flue Gas in Metal-Organic Frameworks. <i>ChemSusChem</i> , <b>2017</b> , 10, 1543-1553	8.3	57
314	Chitosan-coated mesoporous MIL-100(Fe) nanoparticles as improved bio-compatible oral nanocarriers. <i>Scientific Reports</i> , <b>2017</b> , 7, 43099	4.9	81
313	Mechanical properties of a gallium fumarate metal-organic framework: a joint experimental-modelling exploration. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11047-11054	13	22
312	Design of salt-metal organic framework composites for seasonal heat storage applications. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12889-12898	13	77
311	Titanium coordination compounds: from discrete metal complexes to metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3431-3452	58.5	177
310	Crystal structure dependent in vitro antioxidant activity of biocompatible calcium gallate MOFs. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 2813-2822	7.3	22
309	Selective nitrogen capture by porous hybrid materials containing accessible transition metal ion sites. <i>Nature Materials</i> , <b>2017</b> , 16, 526-531	27	135
308	Towards improved HIV-microbicide activity through the co-encapsulation of NRTI drugs in biocompatible metal organic framework nanocarriers. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8563-8569	7.3	18
307	A Smart Metal-Organic Framework Nanomaterial for Lung Targeting. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15771-15775	3.6	16
306	New Group 13 MIL-53 Derivates based on 2,5-Thiophenedicarboxylic Acid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2017</b> , 643, 1600-1608	1.3	32
305	Evaporation-Directed Crack-Patterning of Metal-Organic Framework Colloidal Films and Their Application as Photonic Sensors. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14199-14203	3.6	14



304	A Smart Metal-Organic Framework Nanomaterial for Lung Targeting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15565-15569	16.4	94
303	New insights into the degradation mechanism of metal-organic frameworks drug carriers. <i>Scientific Reports</i> , <b>2017</b> , 7, 13142	4.9	66
302	Göard Fey (1941-2017). <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14802	16.4	2
301	Highly Efficient Proton Conduction in a Three-Dimensional Titanium Hydrogen Phosphate. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7263-7271	9.6	28
300	Evaporation-Directed Crack-Patterning of Metal-Organic Framework Colloidal Films and Their Application as Photonic Sensors. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14011-14015	16.4	24
299	Cooperative Adsorption by Porous Frameworks: Diffraction Experiment and Phenomenological Theory. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17714-17720	4.8	11
298	Maghemite-nanoMIL-100(Fe) Bimodal Nanovector as a Platform for Image-Guided Therapy. <i>Chem</i> , <b>2017</b> , 3, 303-322	16.2	48
297	Metal-Organic Polyhedra to Control the Conductance of a Lipid Membrane. <i>Chem</i> , <b>2017</b> , 2, 459-460	16.2	4
296	Diffusion of Carbon Dioxide and Nitrogen in the Small-Pore Titanium Bis(phosphonate) Metal-Organic Framework MIL-91 (Ti): A Combination of Quasielastic Neutron Scattering Measurements and Molecular Dynamics Simulations. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2739-2746	3.2	7
295	Gas Adsorption and Separation by the Al-Based Metal-Organic Framework MIL-160. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26822-26832	3.8	32
294	Revisiting the Aluminum Trimesate-Based MOF (MIL-96): From Structure Determination to the Processing of Mixed Matrix Membranes for CO <sub>2</sub> Capture. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10326-10338	9.6	53
293	A Flexible Fluorescent Zr Carboxylate Metal-Organic Framework for the Detection of Electron-Rich Molecules in Solution. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8423-8429	5.1	15
292	Metal-Organic frameworks: a novel host platform for enzymatic catalysis and detection. <i>Materials Horizons</i> , <b>2017</b> , 4, 55-63	14.4	207
291	Nanometric MIL-125-NH <sub>2</sub> Metal-Organic Framework as a Potential Nerve Agent Antidote Carrier. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	46
290	In vivo behavior of MIL-100 nanoparticles at early times after intravenous administration. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 511, 1042-7	6.5	50
289	Design of Laccase-Metal Organic Framework-Based Bioelectrodes for Biocatalytic Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20012-22	9.5	52
288	Observing the Effects of Shaping on Gas Adsorption in Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4416-4423	2.3	31
287	Proton-Conducting Phenolate-Based Zr Metal-Organic Framework: A Joint Experimental-Modeling Investigation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24503-24510	3.8	20

286	Impact of the Metal Centre and Functionalization on the Mechanical Behaviour of MIL-53 Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4424-4429	2.3	36
285	Proton Transport in a Highly Conductive Porous Zirconium-Based Metal-Organic Framework: Molecular Insight. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3987-3992	3.6	29
284	Proton Transport in a Highly Conductive Porous Zirconium-Based Metal-Organic Framework: Molecular Insight. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3919-24	16.4	123
283	Investigating the Case of Titanium(IV) Carboxyphenolate Photoactive Coordination Polymers. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7192-9	5.1	56
282	Catalytic transfer hydrogenation of ethyl levulinate to $\gamma$ -valerolactone over zirconium-based metal-organic frameworks. <i>Green Chemistry</i> , <b>2016</b> , 18, 4542-4552	10	149
281	Synthesis of the biocompatible and highly stable MIL-127(Fe): from large scale synthesis to particle size control. <i>CrystEngComm</i> , <b>2016</b> , 18, 4094-4101	3.3	54
280	Exploration of the mechanical behavior of metal organic frameworks UiO-66(Zr) and MIL-125(Ti) and their NH <sub>2</sub> functionalized versions. <i>Dalton Transactions</i> , <b>2016</b> , 45, 4283-8	4.3	40
279	Adsorption of Small Molecules in the Porous Zirconium-Based Metal Organic Framework MIL-140A (Zr): A Joint Computational-Experimental Approach. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7192-7200 <sup>3,8</sup>	3.8	12
278	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 2650-63	5.1	116
277	Comparative Study of MIL-96(Al) as Continuous Metal-Organic Frameworks Layer and Mixed-Matrix Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7536-44	9.5	65
276	MIL-91(Ti), a small pore metal-organic framework which fulfils several criteria: an upscaled green synthesis, excellent water stability, high CO <sub>2</sub> selectivity and fast CO <sub>2</sub> transport. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1383-1389	13	65
275	Antineoplastic busulfan encapsulated in a metal organic framework nanocarrier: first in vivo results. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 585-588	7.3	29
274	Mechanical energy storage performance of an aluminum fumarate metal-organic framework. <i>Chemical Science</i> , <b>2016</b> , 7, 446-450	9.4	78
273	Nanostructured metal-organic frameworks and their bio-related applications. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 307, 342-360	23.2	382
272	Thermodynamics of the structural transition in metal-organic frameworks. <i>Dalton Transactions</i> , <b>2016</b> , 45, 4274-82	4.3	14
271	Iron and Groups V- and VI-based MOFs <b>2016</b> , 171-202		2
270	Toward an Understanding of the Microstructure and Interfacial Properties of PIMs/ZIF-8 Mixed Matrix Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27311-27321	9.5	73
269	Biocompatible polymer-metal-organic framework composite patches for cutaneous administration of cosmetic molecules. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7031-7040	7.3	22



268	Immobilization of polyoxometalates in the Zr-based metal organic framework UiO-67. <i>Chemical Communications</i> , <b>2015</b> , 51, 2972-5	5.8	76
267	Tuning the properties of the UiO-66 metal organic framework by Ce substitution. <i>Chemical Communications</i> , <b>2015</b> , 51, 14458-61	5.8	58
266	Syngas Purification by Porous Amino-Functionalized Titanium Terephthalate MIL-125. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 4654-4664	4.1	33
265	Direct accessibility of mixed-metal (III/II) acid sites through the rational synthesis of porous metal carboxylates. <i>Chemical Communications</i> , <b>2015</b> , 51, 10194-7	5.8	46
264	Impact of the Nature of the Organic Spacer on the Crystallization Kinetics of UiO-66(Zr)-Type MOFs. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7135-43	4.8	32
263	Diffusion of H <sub>2</sub> , CO <sub>2</sub> , and Their Mixtures in the Porous Zirconium Based Metal-Organic Framework MIL-140A(Zr): Combination of Quasi-Elastic Neutron Scattering Measurements and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23978-23989	3.8	25
262	Design of metal organic framework-enzyme based bioelectrodes as a novel and highly sensitive biosensing platform. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8983-8992	7.3	97
261	Acid-functionalized UiO-66(Zr) MOFs and their evolution after intra-framework cross-linking: structural features and sorption properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3294-3309	13	135
260	A Zn azelate MOF: combining antibacterial effect. <i>CrystEngComm</i> , <b>2015</b> , 17, 456-462	3.3	103
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18	Synthesis and characterisation of MIL-43 and MIL-44, two new layered templated tetravalent phosphates: $Zr(PO_4)_2 \cdot N_2C_2H_{10}$ and $Ti_2(PO_4)_2(HPO_4)_2 \cdot N_2C_2H_{10}$ . <i>Solid State Sciences</i> , <b>2001</b> , 3, 623-632	3.4	15
17	Hydrothermal synthesis and structure determination from powder data of new three-dimensional titanium(IV) diphosphonates $Ti(O_3)P-(CH_2)(n)-PO_3$ or MIL-25(n) ( $n = 2, 3$ ). <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 5350-3	5.1	54

16	Hybrid Open Frameworks. Hydrothermal Synthesis, Structure Determinations, and Magnetic Behavior of $(\text{VVO})_2(\text{H}_2\text{O})\{\text{O}_3\text{P}(\text{CH}_2)_3\text{PO}_3\} \cdot 2\text{H}_2\text{O}$ : A New Vanado-alkyldiphosphonate Closely Related to $\text{VO}(\text{HPO}_4) \cdot 0.5\text{H}_2\text{O}$ . <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 155, 238-242	3.3	28
15	Hybrid open frameworks: Hydrothermal synthesis and structure determination of MIL-33: a new vanadomethylendiphosphonate intercalating potassium cations. <i>Solid State Sciences</i> , <b>2000</b> , 2, 551-556		7
14	Hybrid open-frameworks: hydrothermal synthesis, structure determinations and magnetic properties of MIL-29, two copper diphosphonates $(\text{CuII}(\text{H}_2\text{O}))_2\{\text{O}_3\text{P}(\text{X})\text{PO}_3\}$ with $\text{X}=\text{C}_2\text{H}_4$ , $\text{CH}_2\text{C}_6\text{H}_4$ or $\text{H}_2$ . <i>Solid State Sciences</i> , <b>2000</b> , 2, 29-33		31
13	Hydrothermal Synthesis and Characterization of an Ethylenediamine-Templated Mixed-Valence Titanium Phosphate. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 444-449	9.6	40
12	The room-temperature crystallisation of a one-dimensional gallium fluorophosphate, $\text{Ga}(\text{HPO}_4)_2\text{F} \cdot \text{H}_3\text{N}(\text{CH}_2)_3\text{NH}_3 \cdot 2\text{H}_2\text{O}$ , a precursor to three-dimensional microporous gallium fluorophosphates. <i>Chemical Communications</i> , <b>2000</b> , 203-204	5.8	46
11	Hydrothermal synthesis and crystal structure of a new three-dimensional titanium(IV) phosphate with an open structure: $\text{Ti}_6\text{O}_3(\text{H}_2\text{O})_3(\text{PO}_4)_7(\text{H}_3\text{O})_3 \cdot 2\text{H}_2\text{O}$ or MIL-18. <i>Comptes Rendus De L'Academie Des Sciences - Series IIC: Chemistry</i> , <b>1999</b> , 2, 85-91		1
10	Hydrothermal Synthesis, Powder Structural Determination, and Magnetic Study of the Novel Hydrated Iron Diphosphonate $[\text{Fe}_2(\text{H}_2\text{O})_2(\text{O}_3\text{P}(\text{CH}_2)_3\text{PO}_3\text{H})_2](\text{H}_2\text{O})_2$ or MIL-13. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 122-131	3.3	34
9	Hydrothermal synthesis and ab initio structural approach of two new layered oxyfluorinated titanium(IV) phosphates: $\text{Ti}_2(\text{PO}_4)_2\text{F}_4 \cdot \text{N}_2\text{C}_2\text{H}_{10}$ (MIL-6) and $\text{Ti}_2(\text{PO}_4)_2\text{F}_4 \cdot \text{N}_2\text{C}_3\text{H}_{12} \cdot 2\text{H}_2\text{O}$ . <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 579-584		37
8	Hydrothermal synthesis and ab initio structure determination from powder data of a new three-dimensional mixed valence oxyfluorinated titanium phosphate with an open structure: $\text{Ti}^{\text{III}}\text{Ti}^{\text{IV}}\text{F}(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$ or MIL-15. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 1185-1189		26
7	Hybrid Open Frameworks. 8. Hydrothermal Synthesis, Crystal Structure, and Thermal Behavior of the First Three-Dimensional Titanium(IV) Diphosphonate with an Open Structure: $\text{Ti}_3\text{O}_2(\text{H}_2\text{O})_2(\text{O}_3\text{P}(\text{CH}_2)_3\text{PO}_3)_2 \cdot 2(\text{H}_2\text{O})_2$ , or MIL-22. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 5370-5373	5.1	73
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5	SARS-CoV-2 Inactivation Potential of Metal Organic Framework Induced Photocatalysis		5
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