

Russell E Morris

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1345355/russell-e-morris-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

261
papers

21,507
citations

66
h-index

142
g-index

288
ext. papers

23,258
ext. citations

9.3
avg, IF

7.09
L-index

#	Paper	IF	Citations
261	Metal-organic frameworks in biomedicine. <i>Chemical Reviews</i> , 2012 , 112, 1232-68	68.1	3131
260	Gas storage in nanoporous materials. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4966-81	16.4	1325
259	Ionic liquids and eutectic mixtures as solvent and template in synthesis of zeolite analogues. <i>Nature</i> , 2004 , 430, 1012-6	50.4	1101
258	BioMOFs: metal-organic frameworks for biological and medical applications. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6260-6	16.4	932
257	Ionothermal synthesis of zeolites, metal-organic frameworks, and inorganic-organic hybrids. <i>Accounts of Chemical Research</i> , 2007 , 40, 1005-13	24.3	740
256	Two-dimensional zeolites: current status and perspectives. <i>Chemical Reviews</i> , 2014 , 114, 4807-37	68.1	520
255	High-capacity hydrogen and nitric oxide adsorption and storage in a metal-organic framework. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1203-9	16.4	482
254	Induction of chiral porous solids containing only achiral building blocks. <i>Nature Chemistry</i> , 2010 , 2, 353-61	17.6	472
253	Ionothermal synthesis--ionic liquids as functional solvents in the preparation of crystalline materials. <i>Chemical Communications</i> , 2009 , 2990-8	5.8	388
252	Chiral induction in the ionothermal synthesis of a 3-D coordination polymer. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4880-1	16.4	386
251	Exceptional behavior over the whole adsorption-storage-delivery cycle for NO in porous metal organic frameworks. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10440-4	16.4	357
250	Adsorption properties of HKUST-1 toward hydrogen and other small molecules monitored by IR. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2676-85	3.6	321
249	A family of zeolites with controlled pore size prepared using a top-down method. <i>Nature Chemistry</i> , 2013 , 5, 628-33	17.6	309
248	The ionothermal synthesis of cobalt aluminophosphate zeolite frameworks. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2204-5	16.4	266
247	On the Nature of Water Bound to a Solid Acid Catalyst. <i>Science</i> , 1996 , 271, 799-802	33.3	219
246	Microwave-assisted synthesis of anionic metal-organic frameworks under ionothermal conditions. <i>Chemical Communications</i> , 2006 , 2021-3	5.8	214
245	The ADOR mechanism for the synthesis of new zeolites. <i>Chemical Society Reviews</i> , 2015 , 44, 7177-206	58.5	213

244	1-Alkyl-3-methyl Imidazolium Bromide Ionic Liquids in the Ionothermal Synthesis of Aluminium Phosphate Molecular Sieves. <i>Chemistry of Materials</i> , 2006 , 18, 4882-4887	9.6	209
243	Ionothermal materials synthesis using unstable deep-eutectic solvents as template-delivery agents. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4962-6	16.4	201
242	NO-releasing zeolites and their antithrombotic properties. <i>Journal of the American Chemical Society</i> , 2006 , 128, 502-9	16.4	201
241	Anion control in the ionothermal synthesis of coordination polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10334-5	16.4	200
240	Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2013 , 25, 1592-1599	9.6	199
239	Metal organic frameworks as NO delivery materials for biological applications. <i>Microporous and Mesoporous Materials</i> , 2010 , 129, 330-334	5.3	186
238	Chemically blockable transformation and ultrasensitive low-pressure gas adsorption in a non-porous metal organic framework. <i>Nature Chemistry</i> , 2009 , 1, 289-94	17.6	176
237	The ionothermal synthesis of SIZ-6--a layered aluminophosphate. <i>Chemical Communications</i> , 2006 , 380-25.8	15.3	153
236	The synthesis of molecular sieves from non-aqueous solvents. <i>Chemical Society Reviews</i> , 1997 , 26, 309	58.5	152
235	Coordination change, lability and hemilability in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017 , 46, 5444-5462	58.5	151
234	Synthesis of 'unfeasible' zeolites. <i>Nature Chemistry</i> , 2016 , 8, 58-62	17.6	146
233	A solid-state NMR method for solution of zeolite crystal structures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10365-70	16.4	142
232	Exploiting chemically selective weakness in solids as a route to new porous materials. <i>Nature Chemistry</i> , 2015 , 7, 381-8	17.6	141
231	Ionic liquids and microwaves--making zeolites for emerging applications. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 442-4	16.4	138
230	A Synchrotron X-ray Diffraction, Neutron Diffraction, ²⁹ Si MAS-NMR, and Computational Study of the Siliceous Form of Zeolite Ferrierite. <i>Journal of the American Chemical Society</i> , 1994 , 116, 11849-11855	16.4	133
229	Protecting group and switchable pore-discriminating adsorption properties of a hydrophilic-hydrophobic metal-organic framework. <i>Nature Chemistry</i> , 2011 , 3, 304-10	17.6	131
228	Ionothermal synthesis of unusual choline-templated cobalt aluminophosphates. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7839-43	16.4	125
227	An ionothermally prepared S=1/2 vanadium oxyfluoride kagome lattice. <i>Nature Chemistry</i> , 2011 , 3, 801-6	17.6	122

226	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. <i>Chemical Communications</i> , 2013 , 49, 7773-5	5.8	120
225	Combined Neutron and X-ray Powder Diffraction Study of Zeolite Ca LSX and a 2H NMR Study of Its Complex with Benzene. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 16087-16092		118
224	Metal-organic frameworks for the storage and delivery of biologically active hydrogen sulfide. <i>Dalton Transactions</i> , 2012 , 41, 4060-6	4.3	116
223	Early stage reversed crystal growth of zeolite A and its phase transformation to sodalite. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17986-92	16.4	114
222	SSZ-23: An Odd Zeolite with Pore Openings of Seven and Nine Tetrahedral Atoms. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 2122-2126	16.4	100
221	Ionothermal synthesis using a hydrophobic ionic liquid as solvent in the preparation of a novel aluminophosphate chain structure. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3682		98
220	SSZ-51A New Aluminophosphate Zeotype: Synthesis, Crystal Structure, NMR, and Dehydration Properties. <i>Chemistry of Materials</i> , 2004 , 16, 2844-2851	9.6	94
219	Increased selectivity in hydroformylation reactions using dendrimer based catalysts; a positive dendrimer effect. <i>Chemical Communications</i> , 2001 , 361-362	5.8	94
218	Gapless spin liquid ground state in the $S = 1/2$ vanadium oxyfluoride kagome antiferromagnet $[\text{NH}_4]_2[\text{C}_7\text{H}_{14}\text{N}][\text{V}_7\text{O}_6\text{F}_{18}]$. <i>Physical Review Letters</i> , 2013 , 110, 207208	7.4	92
217	Studies on the role of fluoride ion vs reaction concentration in zeolite synthesis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 652-61	3.4	92
216	Topically applied nitric oxide induces T-lymphocyte infiltration in human skin, but minimal inflammation. <i>Journal of Investigative Dermatology</i> , 2008 , 128, 352-60	4.3	90
215	Hydrolytic stability in hemilabile metal-organic frameworks. <i>Nature Chemistry</i> , 2018 , 10, 1096-1102	17.6	88
214	In situ single-crystal diffraction studies of the structural transition of metal-organic framework copper 5-sulfoisophthalate, Cu-SIP-3. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3605-11	16.4	87
213	NO-loaded Zn(2+)-exchanged zeolite materials: a potential bifunctional anti-bacterial strategy. <i>Acta Biomaterialia</i> , 2010 , 6, 1515-21	10.8	85
212	Zeolites with continuously tuneable porosity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13210-4	16.4	82
211	Ionothermal synthesis of zirconium phosphates and their catalytic behavior in the selective oxidation of cyclohexane. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2206-9	16.4	82
210	Solventless synthesis of zeolites. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2163-5	16.4	81
209	Multifunctional lanthanum tetrakisphosphonates: flexible, ultramicroporous and proton-conducting hybrid frameworks. <i>Dalton Transactions</i> , 2012 , 41, 4045-51	4.3	81

208	Ammonia-rich high-temperature superconducting intercalates of iron selenide revealed through time-resolved in situ X-ray and neutron diffraction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 630-3	16.4	79
207	Imposition of Polarity on a Centrosymmetric Zeolite Host: The Effect of Fluoride Ions on Template Ordering in Zeolite IFR. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7128-7129	16.4	79
206	Synthesis and structure of fluoride-containing GeO ₂ analogues of zeolite double four-ring building units. <i>Chemical Communications</i> , 2002 , 2220-1	5.8	78
205	Ionothermal Materials Synthesis Using Unstable Deep-Eutectic Solvents as Template-Delivery Agents. <i>Angewandte Chemie</i> , 2006 , 118, 5084-5088	3.6	77
204	The location and ordering of fluoride ions in pure silica zeolites with framework types IFR and STF; implications for the mechanism of zeolite synthesis in fluoride media. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8797-805	16.4	76
203	Task specific ionic liquids for the ionothermal synthesis of siliceous zeolites. <i>Chemical Science</i> , 2010 , 1, 483	9.4	75
202	Combined solid state NMR and X-ray diffraction investigation of the local structure of the five-coordinate silicon in fluoride-containing as-synthesized STF zeolite. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7770-8	16.4	75
201	Synthesis of highly functionalised dendrimers based on polyhedral silsesquioxane cores. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 2767-2770		74
200	A solid with a hierarchical tetramodal micro-meso-macro pore size distribution. <i>Nature Communications</i> , 2013 , 4, 2015	17.4	73
199	Pure Silica Zeolite-type Frameworks: A Structural Analysis. <i>Chemistry of Materials</i> , 2008 , 20, 1561-1570	9.6	72
198	Phosphine-containing carbosilane dendrimers based on polyhedral silsesquioxane cores as ligands for hydroformylation reaction of oct-1-ene. <i>Journal of Molecular Catalysis A</i> , 2002 , 182-183, 99-105		67
197	3D to 2D Routes to Ultrathin and Expanded Zeolitic Materials. <i>Chemistry of Materials</i> , 2013 , 25, 542-547	9.6	66
196	An X-ray diffraction and MAS NMR study of the thermal expansion properties of calcined siliceous ferrierite. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4342-9	16.4	66
195	Gradual release of strongly bound nitric oxide from Fe(NO)(Dobdc). <i>Journal of the American Chemical Society</i> , 2015 , 137, 3466-9	16.4	65
194	Variable-temperature microcrystal X-ray diffraction studies of negative thermal expansion in the pure silica zeolite IFR. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5453-9	16.4	63
193	Synthesis of functionalised porous network silsesquioxane polymers. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3208-3212		62
192	Metal-organic frameworks as potential multi-carriers of drugs. <i>CrystEngComm</i> , 2013 , 15, 9364	3.3	61
191	Hydrocarbonylation reactions using alkylphosphine-containing dendrimers based on a polyhedral oligosilsesquioxane core. <i>Dalton Transactions RSC</i> , 2002 , 1997-2008		61

- 190 Synthesis of functional cubes from octavinylsilsesquioxane (OVS). *Organic and Biomolecular Chemistry*, **2008**, 6, 4662-7 3.9 58
- 189 Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPC-12 from Zeolite UOV. *Angewandte Chemie - International Edition*, **2017**, 56, 4324-4327 16.4 56
- 188 High-resolution solid-state ¹³C NMR spectroscopy of the paramagnetic metal-organic frameworks, STAM-1 and HKUST-1. *Physical Chemistry Chemical Physics*, **2013**, 15, 919-29 3.6 56
- 187 Phosphine containing dendrimers for highly regioselective rhodium catalysed hydroformylation of alkenes: a positive dendritic effect. *Dalton Transactions RSC*, **2002**, 4323 55
- 186 Modular materials from zeolite-like building blocks. *Journal of Materials Chemistry*, **2005**, 15, 931 53
- 185 Multirate delivery of multiple therapeutic agents from metal-organic frameworks. *APL Materials*, **2014**, 2, 124108 5.7 52
- 184 Porous, rigid metal(III)-carboxylate metal-organic frameworks for the delivery of nitric oxide. *APL Materials*, **2014**, 2, 124112 5.7 52
- 183 The assembly-disassembly-organization-reassembly mechanism for 3D-2D-3D transformation of germanosilicate IWW zeolite. *Angewandte Chemie - International Edition*, **2014**, 53, 7048-52 16.4 52
- 182 Ionothermal ¹⁷O enrichment of oxides using microlitre quantities of labelled water. *Chemical Science*, **2012**, 3, 2293 9.4 52
- 181 Comparing quantum-chemical calculation methods for structural investigation of zeolite crystal structures by solid-state NMR spectroscopy. *Magnetic Resonance in Chemistry*, **2010**, 48 Suppl 1, S113-21^{2.1} 52
- 180 The location of fluoride and organic guests in βs-made pure silica zeolites FER and CHA. *Journal of Materials Chemistry*, **2003**, 13, 1978-1982 52
- 179 Germanosilicate Precursors of ADORable Zeolites Obtained by Disassembly of ITH, ITR, and IWR Zeolites. *Chemistry of Materials*, **2014**, 26, 5789-5798 9.6 51
- 178 How does your MOF grow?. *ChemPhysChem*, **2009**, 10, 327-9 3.2 49
- 177 Determination of complex structures by combined neutron and synchrotron X-ray powder diffraction. *Nature*, **1992**, 359, 519-522 50.4 49
- 176 Microporous Magnesium Aluminophosphate STA-1: Synthesis with a Rationally Designed Template and Structure Elucidation by Microcrystal Diffraction. *Angewandte Chemie International Edition in English*, **1997**, 36, 81-83 48
- 175 Incorporation of cisplatin into the metal-organic frameworks UiO66-NH₂ and UiO66 □ encapsulation vs. conjugation. *RSC Advances*, **2015**, 5, 83648-83656 3.7 47
- 174 Dendrimer-bound tertiary phosphines for alkene hydroformylation. *Inorganic Chemistry Communication*, **2000**, 3, 714-717 3.1 47
- 173 Synthesis and Structure of an Unusual New Layered Aluminophosphate Containing Oxalate Groups, [NH₃CH₂CH₂NH₃]_{2.5}[Al₄H(HPO₄)₄(H₂PO₄)₂(C₂O₄)₄]. *Journal of Solid State Chemistry*, **1999**, 143, 74-78^{3.3} 47

172	AssemblyDisassemblyOrganizationReassembly Synthesis of Zeolites Based on cfi-Type Layers. <i>Chemistry of Materials</i> , 2017 , 29, 5605-5611	9.6	46
171	Tuning Different Kinds of Entangled Networks Formed by Isomers of Bis(1,2,4-triazol-1-ylmethyl)benzene and a Flexible Tetracarboxylate Ligand. <i>Crystal Growth and Design</i> , 2013 , 13, 1649-1654	3.5	46
170	The use of ionic liquids in the synthesis of zinc imidazolate frameworks. <i>Dalton Transactions</i> , 2010 , 39, 1758-62	4.3	46
169	Hydrogen-bond-directing effect in the ionothermal synthesis of metal coordination polymers. <i>Dalton Transactions</i> , 2008 , 3989-94	4.3	46
168	The ionothermal synthesis of metal organic frameworks, Ln(C9O6H3)((CH3NH)2CO)2, using deep eutectic solvents. <i>Solid State Sciences</i> , 2010 , 12, 418-421	3.4	44
167	Anionic Gallium Phosphate Double Four-Ring Units Containing Occluded Oxygen. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11246-11247	16.4	44
166	Tuning the nitric oxide release from CPO-27 MOFs. <i>RSC Advances</i> , 2016 , 6, 14059-14067	3.7	43
165	The role of added water in the ionothermal synthesis of microporous aluminium phosphates. <i>Solid State Sciences</i> , 2009 , 11, 411-416	3.4	43
164	In situ solid-state NMR and XRD studies of the ADOR process and the unusual structure of zeolite IPC-6. <i>Nature Chemistry</i> , 2017 , 9, 1012-1018	17.6	42
163	Synthesis and characterisation of Al(O3PCH2CO2)3BH2O, a layered aluminium carboxymethylphosphonate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 3359-3362		42
162	The synthesis of gallium phosphate frameworks with and without fluoride ions present: attempts to direct the synthesis of double four-ring containing materials. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1850-1857		42
161	A novel non-centrosymmetric metallophosphate-borate compound via ionothermal synthesis. <i>Dalton Transactions</i> , 2009 , 5287-9	4.3	41
160	Azamacrocycle-Containing Gallium Phosphates: A New Class of InorganicOrganic Hybrid Material. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6822-6823	16.4	41
159	Fast room temperature lability of aluminosilicate zeolites. <i>Nature Communications</i> , 2019 , 10, 4690	17.4	40
158	Calcination of a layered aluminofluorophosphate precursor to form the zeolitic AFO framework. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1035		40
157	Understanding the adsorption mechanism of noble gases Kr and Xe in CPO-27-Ni, CPO-27-Mg, and ZIF-8. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23908-14	3.6	39
156	AlMePO- β -inclusion and thermal removal of structure directing agent and the topotactic reconstructive transformation to its polymorph AlMePO- β . <i>Journal of Materials Chemistry</i> , 1997 , 7, 2287-2292		39
155	A severely interrupted germanate zeolite framework synthesised from isolated double four-ring units. <i>Dalton Transactions</i> , 2004 , 820-4	4.3	39

154	EPR and magnetic studies of a novel copper metal organic framework (STAM-I). <i>Chemical Physics Letters</i> , 2012 , 544, 17-21	2.5	37
153	Synthesis and crystal structure of the first scandium-containing open framework solid. <i>Chemical Communications</i> , 2002 , 1180-1	5.8	37
152	Synthesis and computer modelling of hydroxy-derivatised carbosilane dendrimers based on polyhedral silsesquioxane cores. <i>Dalton Transactions RSC</i> , 2001 , 3261-3268		37
151	Synthesis and characterisation of silanol-functionalised dendrimers. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999 , 2183-2188		37
150	A Synthesis, MAS NMR, Synchrotron X-ray Powder Diffraction, and Computational Study of Zeolite SSZ-23. <i>Chemistry of Materials</i> , 1999 , 11, 2878-2885	9.6	37
149	Determination of Complex Structures from Powder Diffraction Data: The Crystal Structure of La ₃ Ti ₅ Al ₁₅ O ₃₇ . <i>Journal of Solid State Chemistry</i> , 1994 , 111, 52-57	3.3	37
148	Structure and NMR assignment in AlPO ₄ -15: A combined study by diffraction, MAS NMR and first-principles calculations. <i>Solid State Sciences</i> , 2009 , 11, 1001-1006	3.4	36
147	Synthesis, Isotopic Enrichment, and Solid-State NMR Characterization of Zeolites Derived from the Assembly, Disassembly, Organization, Reassembly Process. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5140-5148	16.4	35
146	Cost-effective O enrichment and NMR spectroscopy of mixed-metal terephthalate metal-organic frameworks. <i>Chemical Science</i> , 2018 , 9, 850-859	9.4	35
145	The effect of pressure on the post-synthetic modification of a nanoporous metal-organic framework. <i>Nanoscale</i> , 2014 , 6, 4163-73	7.7	34
144	Selective oxidation of bulky organic sulphides over layered titanosilicate catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 2775-2786	5.5	33
143	Water based scale-up of CPO-27 synthesis for nitric oxide delivery. <i>Dalton Transactions</i> , 2016 , 45, 618-294.3		33
142	The Synthesis and Structure of SSZ-73: an All-Silica Zeolite with an Unusual Framework Topology. <i>Chemistry of Materials</i> , 2007 , 19, 3924-3932	9.6	33
141	The Synthesis and Characterization of a One-Dimensional Aluminophosphate: Na ₄ Al(PO ₄) ₂ (OH). <i>Journal of Solid State Chemistry</i> , 1995 , 118, 412-416	3.3	33
140	Metal-Organic Framework-Activated Carbon Composite Materials for the Removal of Ammonia from Contaminated Airstreams. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11747-11751	16.4	31
139	The structure of phosphine-functionalised silsesquioxane-based dendrimers: a molecular dynamics study. <i>Dalton Transactions</i> , 2004 , 1665-9	4.3	31
138	Tuning the nitric oxide release behavior of amino functionalized HKUST-1. <i>Microporous and Mesoporous Materials</i> , 2015 , 216, 118-126	5.3	30
137	Pair distribution function-derived mechanism of a single-crystal to disordered to single-crystal transformation in a hemilabile metal-organic framework. <i>Chemical Science</i> , 2012 , 3, 2559	9.4	30

136	Increasing the dimensionality of hybrid vanadium oxyfluorides using ionothermal synthesis. <i>Dalton Transactions</i> , 2010 , 39, 6018-20	4-3	30
135	A new calcium trimellitate coordination polymer with a chain-like structure. <i>Solid State Sciences</i> , 2007 , 9, 455-458	3-4	30
134	The synthesis and modification of aluminium phosphonates. <i>Journal of Materials Chemistry</i> , 1999 , 9, 179-185		30
133	Post-synthetic incorporation of nickel into CPO-27(Mg) to give materials with enhanced permanent porosity. <i>CrystEngComm</i> , 2013 , 15, 9779	3-3	29
132	Synthesis and crystal structure of a gallium phosphate with 14-ring channels. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1607-1611		29
131	Hybrid dendritic molecules with confined chromophore architecture to tune fluorescence efficiency. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16382-92	3-4	28
130	Synthesis of aldehyde functionalised polyhedral oligomeric silsesquioxanes. <i>Dalton Transactions RSC</i> , 2001 , 1123-1127		28
129	Synthetic control of framework zinc purinate crystallisation and properties of a large pore, decorated, mixed-linker RHO-type ZIF. <i>Chemical Communications</i> , 2012 , 48, 6690-2	5-8	27
128	Ionic liquids and deep eutectic mixtures as new solvents for the synthesis of vanadium fluorides and oxyfluorides. <i>Dalton Transactions</i> , 2011 , 40, 4324-31	4-3	27
127	In Situ Comparison of Ionothermal Kinetics Under Microwave And Conventional Heating. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20553-20558	3-8	27
126	Layered microporous tin(IV) bisphosphonates. <i>Dalton Transactions</i> , 2007 , 2394-404	4-3	27
125	Cyclam as a Structure-Directing Agent in the Crystallization of Aluminophosphate Open Framework Materials from Fluoride Media. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 267-273	3-3	27
124	Hydrothermal Syntheses and Crystal Structures of Two New Iron Phosphates [C ₂ N ₂ H ₁₀] ₂ ⁺ [Fe(HPO ₄) ₂ (OH)] ₂ ·2H ₂ O and KFe ₃ (OH) ₂ (PO ₄) ₂ ·2H ₂ O. <i>Journal of Solid State Chemistry</i> , 1999 , 142, 455-460	3-3	27
123	Ionothermal synthesis of inorganic-organic hybrid materials containing perfluorinated aliphatic dicarboxylate ligands. <i>Dalton Transactions</i> , 2009 , 1131-5	4-3	26
122	Some Difficult Challenges for the Synthesis of Nanoporous Materials. <i>Topics in Catalysis</i> , 2010 , 53, 1291-1296		25
121	Ionothermal synthesis of NH ₄ AlF ₄ and the determination by single crystal X-ray diffraction of its room temperature and low temperature phases. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 49-53	3-3	25
120	Structure-directing agent location and non-centrosymmetric structure of fluoride-containing zeolite SSZ-55. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5273-8	3-4	25
119	Synthesis, characterization and control of faulting in STF/SFF topologies, a new family of intergrowth zeolites. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1982		25

118	Synthesis and structure of a novel microporous gallophosphate, $\text{Na}_3\text{Ga}_5(\text{PO}_4)_4\text{O}_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 843-844		25
117	The syntheses and crystal structures of two novel aluminum selenites, $\text{Al}_2(\text{SeO}_3)_3 \cdot 6\text{H}_2\text{O}$ and $\text{AlH}(\text{SeO}_3)_2 \cdot 2\text{H}_2\text{O}$. <i>Journal of Solid State Chemistry</i> , 1991 , 94, 227-235	3.3	25
116	A novel mixed-valence selenium(IV)/selenium(VI) oxo compound: crystal structure determination and x-ray absorption near edge structure study of erbium selenite(IV) selenate(VI) hydrate, $\text{Er}(\text{SeO}_3)(\text{SeO}_4)_{1/2} \cdot \text{H}_2\text{O}$. <i>Inorganic Chemistry</i> , 1992 , 31, 4774-4777	5.1	25
115	A new layered MWW zeolite synthesized with the bifunctional surfactant template and the updated classification of layered zeolite forms obtained by direct synthesis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7701-7709	13	24
114	Post-Synthesis Stabilization of Germanosilicate Zeolites ITH, IWW, and UTL by Substitution of Ge for Al. <i>Chemistry - A European Journal</i> , 2016 , 22, 17377-17386	4.8	24
113	Zeolite-derived hybrid materials with adjustable organic pillars. <i>Chemical Science</i> , 2016 , 7, 3589-3601	9.4	24
112	Advances in Organic Anode Materials for Na-/K-Ion Rechargeable Batteries. <i>ChemSusChem</i> , 2020 , 13, 4866-4884	8.3	24
111	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
110	Post-synthesis incorporation of Al into germanosilicate ITH zeolites: the influence of treatment conditions on the acidic properties and catalytic behavior in tetrahydropyranlylation. <i>Catalysis Science and Technology</i> , 2015 , 5, 2973-2984	5.5	23
109	Proton-Coupled Electron Transfer Enhances the Electrocatalytic Reduction of Nitrite to NO in a Bioinspired Copper Complex. <i>ACS Catalysis</i> , 2018 , 8, 5070-5084	13.1	23
108	Controlling interpenetration in metal-organic frameworks by tuning the conformations of flexible bis(triazole) ligands. <i>CrystEngComm</i> , 2013 , 15, 9437	3.3	23
107	From double-four-ring germanosilicates to new zeolites: in silico investigation. <i>ChemPhysChem</i> , 2014 , 15, 2972-6	3.2	23
106	Structural diversity in hybrid vanadium(IV) oxyfluorides based on a common building block. <i>Dalton Transactions</i> , 2014 , 43, 568-75	4.3	22
105	Zeolites with Continuously Tuneable Porosity. <i>Angewandte Chemie</i> , 2014 , 126, 13426-13430	3.6	22
104	The Assembly-Disassembly-Organization-Reassembly Mechanism for 3D-2D-3D Transformation of Germanosilicate IWW Zeolite. <i>Angewandte Chemie</i> , 2014 , 126, 7168-7172	3.6	22
103	Ionothermal synthesis, structure and characterization of three-dimensional zinc phosphates. <i>Dalton Transactions</i> , 2009 , 6715-8	4.3	21
102	Gallium hydrogen selenite diselenite hydrate, $\text{Ga}(\text{HSeO}_3)(\text{Se}_2\text{O}_5) \cdot 1.07\text{H}_2\text{O}$: a novel structure type containing alternating cationic and anionic layers. <i>Chemistry of Materials</i> , 1994 , 6, 67-69	9.6	21
101	Simultaneous Gas Storage and Catalytic Gas Production Using Zeolites—A New Concept for Extending Lifetime Gas Delivery. <i>Topics in Catalysis</i> , 2009 , 52, 35-41	2.3	20

100	From non-porous crystalline to amorphous microporous metal(IV) bisphosphonates. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 322-336	5.3	20
99	Solid-State NMR Studies of the Fluoride-Containing Zeolite SSZ-44. <i>Chemistry of Materials</i> , 2004 , 16, 600-603	5.6	20
98	Structure and spectroscopy of hydrogen adsorbed in a nickel metal-organic framework. <i>Chemical Physics</i> , 2013 , 427, 3-8	2.3	19
97	A new family of two-dimensional zeolites prepared from the intermediate layered precursor IPC-3P obtained during the synthesis of TUN zeolite. <i>Chemistry - A European Journal</i> , 2013 , 19, 13937-45	4.8	19
96	Ionothermal synthesis of two novel metal organophosphonates. <i>Dalton Transactions</i> , 2009 , 795-9	4.3	19
95	Synthesis of two new aluminophosphate based layered materials using Tet-A as a structure-directing agent. <i>Journal of Materials Chemistry</i> , 2002 , 12, 477-482		19
94	Functionalised solids delivering bioactive nitric oxide gas for therapeutic applications. <i>Materials Today Communications</i> , 2017 , 12, 95-105	2.5	18
93	Silsesquioxane dendrimers as catalysts: a bite-sized molecular dynamics study. <i>Dalton Transactions</i> , 2007 , 3415-20	4.3	18
92	Rationalising the effect of reducing agent on the oxazaborolidine-mediated asymmetric reduction of N-substituted imines. <i>Tetrahedron Letters</i> , 2004 , 45, 853-855	2	18
91	A novel pyridine-templated open framework gallophosphate. <i>Chemical Communications</i> , 1999 , 2037-2038	3.8	18
90	Nature of the Spin Liquid Ground State in a Breathing Kagome Compound Studied by NMR and Series Expansion. <i>Physical Review Letters</i> , 2017 , 118, 237203	7.4	17
89	Synthesis and crystal structures of bromo- and ester-functionalised polyhedral silsesquioxanes. <i>Polyhedron</i> , 2006 , 25, 853-858	2.7	17
88	Synthesis and structure determination from an extremely small single crystal of a new layered gallium phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 1493-1497	3.9	17
87	Synthesis of a family of aluminium benzylphosphonates. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2375-2380		17
86	Zeolitic and magnetic properties of a 24-membered ring porous nickel(II) phosphate, VSB-1. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1999 , 2, 387-392		17
85	Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	17
84	Structural analysis of IPC zeolites and related materials using positron annihilation spectroscopy and high-resolution argon adsorption. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15269-77	3.6	17
83	Low temperature synthesis study of metal-organic framework CPO-27: investigating metal, solvent and base effects down to -78 °C. <i>Dalton Transactions</i> , 2017 , 46, 8298-8303	4.3	16

82	Vapour-phase-transport rearrangement technique for the synthesis of new zeolites. <i>Nature Communications</i> , 2019 , 10, 5129	17.4	16
81	Solvothermal aluminophosphate zeotype synthesis with ionic liquid precursors. <i>Dalton Transactions</i> , 2011 , 40, 4926-32	4.3	16
80	Synthesis of microporous materials using macrocycles as structure directing agents. <i>Dalton Transactions</i> , 2007 , 5359-68	4.3	16
79	Ionothermal synthesis and characterization of CoAPO-34 molecular sieve. <i>Microporous and Mesoporous Materials</i> , 2017 , 239, 336-341	5.3	15
78	Biomedical Applications of Metal-Organic Frameworks 2011 , 213-250		15
77	The adsorption, storage and release of nitric oxide using ion exchanged zeolites. <i>Studies in Surface Science and Catalysis</i> , 2007 , 170, 902-909	1.8	15
76	A single crystal study of CPO-27 and UTSA-74 for nitric oxide storage and release. <i>CrystEngComm</i> , 2019 , 21, 1857-1861	3.3	15
75	A procedure for identifying possible products in the assembly-disassembly-organization-reassembly (ADOR) synthesis of zeolites. <i>Nature Protocols</i> , 2019 , 14, 781-794	18.8	14
74	Synthesis and structural characterization of a single-crystal to single-crystal transformable coordination polymer. <i>Dalton Transactions</i> , 2014 , 43, 1519-23	4.3	14
73	Cyclam as a Structure-Directing Agent in the Crystallization of Aluminophosphate Open Framework Materials from Fluoride Media. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 267-273	3.3	14
72	Ionic Liquid assisted Synthesis of Zeolite-TON. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 1177-1181	1.3	13
71	Lösungsmittelfreie Synthese von Zeolithen. <i>Angewandte Chemie</i> , 2013 , 125, 2217-2219	3.6	13
70	A prototype environmental gas cell for in situ small-molecule X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2009 , 42, 457-460	3.8	13
69	Simultaneous and cooperative gas storage and gas production using bifunctional zeolites. <i>Chemical Communications</i> , 2008 , 6146-8	5.8	13
68	Pressure-induced chemistry for the 2D to 3D transformation of zeolites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5255-5259	13	13
67	Synthesis and crystallographic characterisation of Mg(H ₂ O) ₅ · 2H ₂ O. <i>Inorganic Chemistry Communication</i> , 2016 , 65, 21-23	3.1	12
66	Monitoring the assembly-disassembly-organization-reassembly process of germanosilicate UTL through in situ pair distribution function analysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17011-17018 ¹³		12
65	Extending the Family of V(4+) S=(1/2) Kagome Antiferromagnets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15457-61	16.4	12

64	A comparison of zeolites and Metal Organic Frameworks as storage and delivery vehicles for biologically active nitric oxide. <i>Studies in Surface Science and Catalysis</i> , 2008 , 441-446	1.8	12
63	O NMR spectroscopy of crystalline microporous materials. <i>Chemical Science</i> , 2021 , 12, 5016-5036	9.4	12
62	Expansion of the ADOR Strategy for the Synthesis of Zeolites: The Synthesis of IPC-12 from Zeolite UOV. <i>Angewandte Chemie</i> , 2017 , 129, 4388-4391	3.6	11
61	Sodium Naphthalene-2,6-dicarboxylate: An Anode for Sodium Batteries. <i>ChemSusChem</i> , 2019 , 12, 4522-4528	8.3	11
60	Ionothermal synthesis and crystal structures of metal phosphate chains. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1625-1631	3.3	11
59	C pNMR of "crumple zone" Cu(II) isophthalate metal-organic frameworks. <i>Solid State Nuclear Magnetic Resonance</i> , 2019 , 101, 44-50	3.1	10
58	The effect of UTL layer connectivity in isorecticular zeolites on the catalytic performance in toluene alkylation. <i>Catalysis Today</i> , 2016 , 277, 55-60	5.3	10
57	Gate-Opening Mechanism of Hydrophilic/Hydrophobic Metal-Organic Frameworks: Molecular Simulations and Quasi-Equilibrated Desorption. <i>Chemistry of Materials</i> , 2018 , 30, 5116-5127	9.6	10
56	Coordination polymers of Zn(II) and 5-methoxy isophthalate. <i>Dalton Transactions</i> , 2015 , 44, 17686-95	4.3	9
55	Ultrasound-driven preparation and pair distribution function-assisted structure solution of a copper-based layered coordination polymer. <i>Dalton Transactions</i> , 2014 , 43, 10438-42	4.3	9
54	SSZ-23: ein Zeolith mit sieben- und neungliedrigen Porenöffnungen. <i>Angewandte Chemie</i> , 1998 , 110, 2234-2239	3.6	9
53	Synthesis and structure of an aluminium 3-aminopropylphosphonate sulfate hydrate. <i>Dalton Transactions RSC</i> , 2001 , 2899-2902		9
52	The structure of La ₄ Ti ₉ O ₂₄ from synchrotron X-ray powder diffraction. <i>Journal of Physics and Chemistry of Solids</i> , 1995 , 56, 1297-1303	3.9	9
51	Multifaceted Study of the Interactions between CPO-27-Ni and Polyurethane and Their Impact on Nitric Oxide Release Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58263-58276	9.5	9
50	Kinetics and Mechanism of the Hydrolysis and Rearrangement Processes within the Assembly-Disassembly-Organization-Reassembly Synthesis of Zeolites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4453-4459	16.4	9
49	Microwave heating and the fast ADOR process for preparing zeolites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8037-8043	13	8
48	Following the unusual breathing behaviour of O-enriched mixed-metal (Al,Ga)-MIL-53 using NMR crystallography. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14514-14526	3.6	8
47	Coordination Polymers of 5-Alkoxy Isophthalic Acids. <i>Crystal Growth and Design</i> , 2016 , 16, 5771-5780	3.5	8

46	A hybrid vanadium fluoride with structurally isolated S = 1 kagome layers. <i>Dalton Transactions</i> , 2014 , 43, 6304-7	4.3	8
45	Synthesis of hybrid dendritic molecules with diazaphospholidine oxide grafted at the surface of octavinylsilsesquioxane (OVS). <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1189-200	3.9	8
44	Concepts in the ionothermal synthesis of zeolites and metal organic frameworks. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 33-42	1.8	8
43	Radial artery access site complications during cardiac procedures, clinical implications and potential solutions: The role of nitric oxide. <i>World Journal of Cardiology</i> , 2020 , 12, 26-34	2.1	8
42	New avenues for mechanochemistry in zeolite science. <i>Dalton Transactions</i> , 2021 , 50, 8995-9009	4.3	8
41	A comparison of copper and acid site zeolites for the production of nitric oxide for biomedical applications. <i>Dalton Transactions</i> , 2017 , 46, 3915-3920	4.3	7
40	Antibacterial efficacy from NO-releasing MOF/polymer films. <i>Materials Advances</i> , 2020 , 1, 2509-2519	3.3	7
39	Variable temperature high resolution ²⁹ Si MAS NMR of siliceous zeolite ferrierite. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2036		7
38	Insight into the ADOR zeolite-to-zeolite transformation: the UOV case. <i>Dalton Transactions</i> , 2018 , 47, 3084-3092	4.3	7
37	Mechanochemically assisted hydrolysis in the ADOR process. <i>Chemical Science</i> , 2020 , 11, 7060-7069	9.4	6
36	Combined PDF and Rietveld studies of ADORable zeolites and the disordered intermediate IPC-1P. <i>Dalton Transactions</i> , 2016 , 45, 14124-30	4.3	6
35	Coordination polymers of 5-substituted isophthalic acid. <i>CrystEngComm</i> , 2016 , 18, 1123-1132	3.3	6
34	Separating out the middle. <i>Nature Materials</i> , 2019 , 18, 910-911	27	6
33	High resolution ²⁹ Si MAS NMR study of the thermal behaviour of the aluminosilicate zeolite ferrierite. <i>Solid State Sciences</i> , 2006 , 8, 342-345	3.4	6
32	Synthesis and structure of Li ₂ Al ₃ (HO ₃ PMe) ₂ (O ₃ PMe) ₄ Cl·7H ₂ O, an ionic, layered lithium aluminium methylphosphonate. <i>Chemical Communications</i> , 1999 , 2421-2422	5.8	6
31	On the structure of Al ₂ (SeO ₃) ₃ · 6H ₂ O. <i>Journal of Solid State Chemistry</i> , 1992 , 99, 200	3.3	6
30	Conversion of a microwave synthesized alkali-metal MOF to a carbonaceous anode for Li-ion batteries.. <i>RSC Advances</i> , 2020 , 10, 13732-13736	3.7	6
29	Magneto-structural correlations of novel kagome-type metal organic frameworks. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6692-6697	7.1	5

28	Multitechnique Analysis of the Hydration in Three Different Copper Paddle-Wheel Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28219-28232	3.8	5
27	NR study of a quantum spin liquid candidate: the S=1/2 vanadium oxyfluoride kagome antiferromagnet. <i>Journal of Physics: Conference Series</i> , 2014 , 551, 012004	0.3	5
26	Das mikroporöse Magnesiumalumphosphat STA-1: Synthese mit einem maßgeschneiderten Templat und Strukturaufklärung an einem Mikrokristall. <i>Angewandte Chemie</i> , 1997 , 109, 76-79	3.6	5
25	Substitution of transition metals into azamacrocyclic gallophosphate inorganic-organic hybrid materials. <i>Journal of Materials Chemistry</i> , 2001 , 11, 513-517		5
24	Nitric oxide production from nitrite by a series of zeolites produced via the ADOR route. <i>Microporous and Mesoporous Materials</i> , 2019 , 280, 367-371	5.3	4
23	Physisorption-induced structural change directing carbon monoxide chemisorption and nitric oxide coordination on hemilabile porous metal organic framework $\text{NaNi}_3(\text{OH})(\text{SIP})_2(\text{H}_2\text{O})_5 \cdot \text{H}_2\text{O}$ (SIP = 5-sulfoisophthalate). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23577-23591	13	4
22	Ionothermal Synthesis of Zeolites and Other Porous Materials 2010 , 87-105		4
21	Diffraction Techniques Applied to Zeolites. <i>Studies in Surface Science and Catalysis</i> , 2007 , 375-IX	1.8	4
20	Polyhedral Oligomeric Silsesquioxane Dendrimers. <i>Advances in Silicon Science</i> , 2009 , 121-139		4
19	Synthesis of Zeolites Using the ADOR (Assembly-Disassembly-Organization-Reassembly) Route. <i>Journal of Visualized Experiments</i> , 2016 , e53463	1.6	3
18	Synthesis and structural characterisation of the copper MOF: STAM-NMe ₂ . <i>CrystEngComm</i> , 2019 , 21, 5387-5391	3.3	3
17	Medical Applications of Solid Nitrosyl Complexes. <i>Structure and Bonding</i> , 2013 , 225-256	0.9	3
16	EPR on Medically Relevant NO Adsorbed to Zn-LTA. <i>Applied Magnetic Resonance</i> , 2010 , 37, 619-627	0.8	3
15	Microporous Materials in Antibacterial Applications 2017 , 171-188		3
14	Crystal structure resolution of two different chlorhexidine salts. <i>Journal of Molecular Structure</i> , 2016 , 1121, 70-73	3.4	2
13	Extending the Family of V ⁴⁺ S=1/2 Kagome Antiferromagnets. <i>Angewandte Chemie</i> , 2015 , 127, 15677-15681	3.6	2
12	Rapid Microwave-Assisted Synthesis and Electrode Optimization of Organic Anode Materials in Sodium-Ion Batteries.. <i>Small Methods</i> , 2021 , 5, e2101016	12.8	2
11	Structure Effects Induced by High Mechanical Compaction of STAM-17-OEt MOF Powders. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 2334-2342	2.3	2

10	Metal-Organic Framework-Activated Carbon Composite Materials for the Removal of Ammonia from Contaminated Airstreams. <i>Angewandte Chemie</i> , 2019 , 131, 11873-11877	3.6	1
9	Flow pair distribution function analysis to probe the assembly-disassembly-organisation-reassembly (ADOR) mechanism of zeolite IPC-2 synthesis. <i>Materials Advances</i> , 2021 , 2, 7949-7955	3.3	1
8	Synthetic and Crystallographic Investigation of the Layered Coordination Framework Copper-1,3-bis(4-carboxyphenyl)-5-ethoxybenzene. <i>Crystal Growth and Design</i> , 2020 , 20, 39-42	3.5	1
7	Preventing Undesirable Structure Flexibility in Pyromellitate Metal Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 2537-2544	2.3	1
6	Controlled Synthesis of Large Single Crystals of Metal-Organic Framework CPO-27-Ni Prepared by a Modulation Approach: In situ Single-Crystal X-ray Diffraction Studies. <i>Chemistry - A European Journal</i> , 2021 , 27, 8537-8546	4.8	1
5	SSZ-23: An Odd Zeolite with Pore Openings of Seven and Nine Tetrahedral Atoms 1998 , 37, 2122		1
4	Solvent Dependent Disorder in $M_2(\text{BzOip})_2(\text{H}_2\text{O})_2$ Solvate (M = Co or Zn). <i>Crystals</i> , 2018 , 8, 6	2.3	0
3	Reverse ADOR: reconstruction of UTL zeolite from layered IPC-1P. <i>Materials Advances</i> , 2021 , 2, 3862-3870	2.3	0
2	Atomic-resolution analysis of the structure and dopants of beam sensitive ordered porous materials 2016 , 774-775		
1	The preparation of modular porous solids from zeolite-like building blocks. <i>Studies in Surface Science and Catalysis</i> , 2004 , 154, 133-138	1.8	