Anthony K Cheetham

List of Publications by Citations

190 papers	16,746 citations	66 h-index	126 g-index
209 ext. papers	19,029 ext. citations	10.3 avg, IF	7.05 L-index

#	Paper	IF	Citations
190	Structural diversity and chemical trends in hybrid inorganic-organic framework materials. *Chemical Communications*, **2006**, 4780-95	5.8	945
189	Multiferroic behavior associated with an order-disorder hydrogen bonding transition in metal-organic frameworks (MOFs) with the perovskite ABX3 architecture. *Journal of the American Chemical Society*, **2009**, 131, 13625-7	16.4	653
188	Solid-state principles applied to organic–inorganic perovskites: new tricks for an old dog. *Chemical Science*, **2014**, 5, 4712-4715	9.4	610
187	Chemically diverse and multifunctional hybrid organic–inorganic perovskites. *Nature Reviews Materials*, **2017**, 2,	73.3	608
186	Mechanical properties of hybrid inorganic-organic framework materials: establishing fundamental structure-property relationships. *Chemical Society Reviews*, **2011**, 40, 1059-80	58.5	533
185	An extended Tolerance Factor approach for organic-inorganic perovskites. *Chemical Science*, **2015**, 6, 3430-3433	9.4	439
184	Order-disorder antiferroelectric phase transition in a hybrid inorganic-organic framework with the perovskite architecture. *Journal of the American Chemical Society*, **2008**, 130, 10450-1	16.4	389
183	The role of temperature in the synthesis of hybrid inorganic-organic materials: the example of cobalt succinates. *Chemical Communications*, **2004**, 368-9	5.8	369
182	The effect of pressure on ZIF-8: increasing pore size with pressure and the formation of a high-pressure phase at 1.47 GPa. *Angewandte Chemie - International Edition*, **2009**, 48, 7087-9	16.4	363
181	Chemical structure, network topology, and porosity effects on the mechanical properties of Zeolitic Imidazolate Frameworks. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9938-43	11.5	362
180	Amorphous metal-organic frameworks. *Accounts of Chemical Research*, **2014**, 47, 1555-62	24.3	357
179	Carbon with hierarchical pores from carbonized metal-organic frameworks for lithium sulphur batteries. *Chemical Communications*, **2013**, 49, 2192-4	5.8	321
178	Materials science. There's room in the middle. *Science*, **2007**, 318, 58-9	33.3	317
177	Rapid room-temperature synthesis of zeolitic imidazolate frameworks by using mechanochemistry. *Angewandte Chemie - International Edition*, **2010**, 49, 9640-3	16.4	312
176	A high-throughput investigation of the role of pH, temperature, concentration, and time on the synthesis of hybrid inorganic-organic materials. *Angewandte Chemie - International Edition*, **2005**, 44, 7608-11	16.4	264
175	Interplay between defects, disorder and flexibility in metal-organic frameworks. *Nature Chemistry*, **2016**, 9, 11-16	17.6	256
174	Understanding of Electrochemical Mechanisms for CO Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). *ACS Nano*, **2017**, 11, 10825-10833	16.7	236

173	The synthesis, structure and electronic properties of a lead-free hybrid inorganic–organic double perovskite (MA)2KBiCl6 (MA = methylammonium). *Materials Horizons*, **2016**, 3, 328-332	14.4	221
172	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH3NH3)2AgBiBr6. *Chemistry of Materials*, **2017**, 29, 1089-1094	9.6	217
171	Negative linear compressibility of a metal-organic framework. *Journal of the American Chemical Society*, **2012**, 134, 11940-3	16.4	216
170	Porous Organic Cage Thin Films and Molecular-Sieving Membranes. *Advanced Materials*, **2016**, 28, 2629-37	24	209
169	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. *Nature Communications*, **2014**, 5, 4813	17.4	199
168	Structure and properties of an amorphous metal-organic framework. *Physical Review Letters*, **2010**, 104, 115503	7.4	198
167	Cobalt oxide and N-doped carbon nanosheets derived from a single two-dimensional metal-organic framework precursor and their application in flexible asymmetric supercapacitors. *Nanoscale Horizons*, **2017**, 2, 99-105	10.8	183
166	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. *CrystEngComm*, **2009**, 11, 2272	3.3	181
165	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. *Chemical Communications*, **2018**, 54, 5268-5288	5.8	177
164	Exploring the properties of lead-free hybrid double perovskites using a combined computational-experimental approach. *Journal of Materials Chemistry A*, **2016**, 4, 12025-12029	13	176
163	Hybrid glasses from strong and fragile metal-organic framework liquids. *Nature Communications*, **2015**, 6, 8079	17.4	164
162	Resolving the Physical Origin of Octahedral Tilting in Halide Perovskites. *Chemistry of Materials*, **2016**, 28, 4259-4266	9.6	163
161	Melt-Quenched Glasses of Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2016**, 138, 3484-92	16.4	161
160	Facile mechanosynthesis of amorphous zeolitic imidazolate frameworks. *Journal of the American Chemical Society*, **2011**, 133, 14546-9	16.4	155
159	Reversible pressure-induced amorphization of a zeolitic imidazolate framework (ZIF-4). *Chemical Communications*, **2011**, 47, 7983-5	5.8	152
158	Role of hydrogen-bonding and its interplay with octahedral tilting in CH3NH3PbI3. *Chemical Communications*, **2015**, 51, 6434-7	5.8	146
157	Mechanical tunability via hydrogen bonding in metal-organic frameworks with the perovskite architecture. *Journal of the American Chemical Society*, **2014**, 136, 7801-4	16.4	146
156	Theoretical Calculations on Silica Frameworks and Their Correlation with Experiment. *Chemistry of Materials*, **1994**, 6, 1647-1650	9.6	144

155	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. *Advanced Energy Materials*, **2019**, 9, 1803768	21.8	143
154	Mechanical properties of organic–inorganic halide perovskites, CH3NH3PbX3 (X = I, Br and Cl), by nanoindentation. *Journal of Materials Chemistry A*, **2015**, 3, 18450-18455	13	139
153	Janus Membranes: Creating Asymmetry for Energy Efficiency. *Advanced Materials*, **2018**, 30, e1801495	24	135
152	Correlations between 31P n.m.r. chemical shifts and structural parameters in crystalline inorganic phosphates. *Journal of the Chemical Society Chemical Communications*, **1986**, 195		128
151	Defects and disorder in metal organic frameworks. *Dalton Transactions*, **2016**, 45, 4113-26	4.3	125
150	Fundamental Carrier Lifetime Exceeding 1 μs in Cs2AgBiBr6 Double Perovskite. *Advanced Materials Interfaces*, **2018**, 5, 1800464	4.6	114
149	Hierarchical bicontinuous porosity in metal–organic frameworks templated from functional block co-oligomer micelles. *Chemical Science*, **2013**, 4, 3573	9.4	113
148	How Strong Is the Hydrogen Bond in Hybrid Perovskites?. *Journal of Physical Chemistry Letters*, **2017**, 8, 6154-6159	6.4	110
147	Phase Transitions in Zeolitic Imidazolate Framework 7: The Importance of Framework Flexibility and Guest-Induced Instability. *Chemistry of Materials*, **2014**, 26, 1767-1769	9.6	109
146	Mechanical properties of dense zeolitic imidazolate frameworks (ZIFs): a high-pressure X-ray diffraction, nanoindentation and computational study of the zinc framework Zn(Im)2, and its lithium-boron analogue, LiB(Im)4. *Chemistry - A European Journal*, **2010**, 16, 10684-90	4.8	105
145	Oxide phosphors for efficient light upconversion: Yb3+ and Er3+ co-doped Ln2BaZnO5 (Ln = Y, Gd). *Journal of Materials Chemistry*, **2010**, 20, 3989		98
144	Thermochemistry of zeolitic imidazolate frameworks of varying porosity. *Journal of the American Chemical Society*, **2013**, 135, 598-601	16.4	97
143	Yttrium-89 magic angle spinning NMR study of rare-earth pyrochlores: paramagnetic shifts in the solid state. *Journal of the American Chemical Society*, **1990**, 112, 4670-4675	16.4	93
142	Ce3+-Activated α-Ca2SiO4 and Other Olivine-Type ABXO4 Phosphors for Solid-State Lighting. *Chemistry of Materials*, **2014**, 26, 3966-3975	9.6	92
141	Synthesis, crystal structure, and properties of a perovskite-related bismuth phase, (NH4)3Bi2I9. *APL Materials*, **2016**, 4, 031101	5.7	91
140	Efficient oxide phosphors for light upconversion; green emission from Yb3+ and Ho3+ co-doped Ln2BaZnO5 (Ln = Y, Gd). *Journal of Materials Chemistry*, **2011**, 21, 1387-1394		90
139	Epitaxial growth and properties of metastable BiMnO3 thin films. *Applied Physics Letters*, **2004**, 84, 91-93	3.4	89
138	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. *Journal of the American Chemical Society*, **2019**, 141, 19099-19109	16.4	85

137	Dimensionality Trends in Metal Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. *Crystal Growth and Design*, **2010**, 10, 2041-2043	3.5	85
136	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. *Npj Quantum Materials*, **2016**, 1,	5	84
135	Structure and Magnetism of VSB-2, -3, and -4 or Ni4(O3P-(CH2)-PO3)2(H2O)n(n= 3, 2, 0), the First Ferromagnetic Nickel(II) Diphosphonates: Increase of Dimensionality and Multiple Coordination Changes during a Quasi Topotactic Dehydration. *Chemistry of Materials*, **1999**, 11, 2937-2947	9.6	84
134	Thermodynamic and Kinetic Effects in the Crystallization of Metal-Organic Frameworks. *Accounts of Chemical Research*, **2018**, 51, 659-667	24.3	83
133	Liquid exfoliation of alkyl-ether functionalised layered metal-organic frameworks to nanosheets. *Chemical Communications*, **2016**, 52, 10474-7	5.8	78
132	Enhanced H2 adsorption enthalpy in the low-surface area, partially fluorinated coordination polymer Zn5(triazole)6(tetrafluoroterephthalate)2(H2O)2·4H2O. *Journal of Materials Chemistry*, **2009**, 19, 4307		77
131	Phase selection and energetics in chiral alkaline Earth tartrates and their racemic and meso analogues: synthetic, structural, computational, and calorimetric studies. *Journal of the American Chemical Society*, **2009**, 131, 15375-86	16.4	75
130	Rapid Room-Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. *Angewandte Chemie*, **2010**, 122, 9834-9837	3.6	73
129	Anionic Metal Organic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligand-Sensitized Photoluminescence. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3823-3828	2.3	71
128	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. *Chemistry of Materials*, **2008**, 20, 6396-6404	9.6	71
127	Synthesis, structure and optical properties of cerium-doped calcium barium phosphate – a novel blue-green phosphor for solid-state lighting. *Journal of Materials Chemistry C*, **2015**, 3, 204-210	7.1	70
126	Influence of ligand field stabilization energy on the elastic properties of multiferroic MOFs with the perovskite architecture. *Dalton Transactions*, **2012**, 41, 3949-52	4.3	69
125	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. *Angewandte Chemie - International Edition*, **2015**, 54, 6447-51	16.4	66
124	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. *APL Materials*, **2014**, 2, 124109	5.7	66
123	Enhanced visible light absorption for lead-free double perovskite CsAgSbBr. *Chemical Communications*, **2019**, 55, 3721-3724	5.8	65
122	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF-Guest Polyhedra. *Journal of the American Chemical Society*, **2018**, 140, 6130-6136	16.4	62
121	Tunable, Ligand-Based Emission from Inorganic Organic Frameworks: A New Approach to Phosphors for Solid State Lighting and Other Applications. *Chemistry of Materials*, **2010**, 22, 2255-2260	9.6	62
120	Insulator-to-Proton-Conductor Transition in a Dense Metal-Organic Framework. *Journal of the American Chemical Society*, **2015**, 137, 6428-31	16.4	61

119	[Am]Mn(HPOO): A New Family of Hybrid Perovskites Based on the Hypophosphite Ligand. *Journal of the American Chemical Society*, **2017**, 139, 16999-17002	16.4	59
118	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. *Nature Communications*, **2019**, 10, 1340	17.4	59
117	Role of entropic effects in controlling the polymorphism in formate ABX3 metal-organic frameworks. *Chemical Communications*, **2015**, 51, 15538-41	5.8	59
116	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. *Journal of the American Chemical Society*, **2020**, 142, 13582-13589	16.4	59
115	Chemical and Structural Diversity in Chiral Magnesium Tartrates and their Racemic and Meso Analogues. *Crystal Growth and Design*, **2007**, 7, 1522-1532	3.5	58
114	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. *Journal of Materials Chemistry A*, **2016**, 4, 270-279	13	57
113	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. *ChemSusChem*, **2017**, 10, 3740-3745	8.3	55
112	Dimethylammonium copper formate [(CH3)2NH2]Cu(HCOO)3: A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. *Physical Review B*, **2013**, 87,	3.3	54
111	Bismuth 2,6-pyridinedicarboxylates: assembly of molecular units into coordination polymers, CO2 sorption and photoluminescence. *Dalton Transactions*, **2012**, 41, 4126-34	4.3	54
110	Research Update: Mechanical properties of metal-organic frameworks Influence of structure and chemical bonding. *APL Materials*, **2014**, 2, 123902	5.7	53
109	Role of Amine Cavity Interactions in Determining the Structure and Mechanical Properties of the Ferroelectric Hybrid Perovskite [NH3NH2]Zn(HCOO)3. *Chemistry of Materials*, **2016**, 28, 312-317	9.6	52
108	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals a nanoindentation study. *Chemical Science*, **2014**, 5, 2392	9.4	52
107	Oxide phosphors for light upconversion; Yb3+ and Tm3+ co-doped Y2BaZnO5. *Journal of Applied Physics*, **2011**, 109, 063104	2.5	52
106	Electric Control of Magnetization and Interplay between Orbital Ordering and Ferroelectricity in a Multiferroic Metal Organic Framework. *Angewandte Chemie*, **2011**, 123, 5969-5972	3.6	50
105	Thermodynamic and kinetic factors in the hydrothermal synthesis of hybrid frameworks: zinc 4-cyclohexene-1,2-dicarboxylates. *Chemical Communications*, **2006**, 2687-9	5.8	50
104	Organised chaos: entropy in hybrid inorganic-organic systems and other materials. *Chemical Science* , **2016**, 7, 6316-6324	9.4	49
103	Functional conductive nanomaterials polymerisation in nano-channels: PEDOT in a MOF. *Materials Horizons*, **2017**, 4, 64-71	14.4	48
102	In Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2016**, 55, 2012-6	16.4	47

101	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. *Chemistry of Materials*, **2021**, 33, 4-18	9.6	47
100	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CHNH)KGdCl and (CHNH)KYCl. *Journal of Physical Chemistry Letters*, **2017**, 8, 5015-5020	6.4	45
99	3D-Printing of Pure Metal□Organic Framework Monoliths **2019**, 1, 147-153		44
98	Comparison of the relative stability of zinc and lithium-boron zeolitic imidazolate frameworks. *CrystEngComm*, **2012**, 14, 374-378	3.3	43
97	Synthesis, structure and optical properties of europium doped calcium barium phosphate □a novel phosphor for solid-state lighting. *Journal of Materials Chemistry C*, **2014**, 2, 6084	7.1	42
96	The role of static disorder in negative thermal expansion in ReO3. *Journal of Applied Physics*, **2009**, 105, 114901	2.5	42
95	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. *Chemical Science*, **2018**, 9, 1654-1660	9.4	41
94	Structural Diversity in Coordination Polymers Composed of Divalent Transition Metals, 2,2?-Bipyridine, and Perfluorinated Dicarboxylates. *Crystal Growth and Design*, **2009**, 9, 4759-4765	3.5	41
93	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. *Chemical Communications*, **2018**, 54, 3751-3754	5.8	40
92	Microscopic origin of entropy-driven polymorphism in hybrid organic-inorganic perovskite materials. *Physical Review B*, **2016**, 94,	3.3	39
91	Structural Diversity and Energetics in Anhydrous Lithium Tartrates: Experimental and Computational Studies of Novel Chiral Polymorphs and Their Racemic and Meso Analogues. *Crystal Growth and Design*, **2011**, 11, 221-230	3.5	39
90	Near infrared up-conversion in organic photovoltaic devices using an efficient Yb3+:Ho3+ Co-doped Ln2BaZnO5 (Ln = Y, Gd) phosphor. *Journal of Applied Physics*, **2012**, 111, 094502	2.5	39
89	A chemical map of NaSICON electrode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 281-292	13	38
88	Synthesis, structure and magnetic phase transitions of the manganese succinate hybrid framework, MN(C4H4O4). *Chemistry - A European Journal*, **2010**, 16, 7579-85	4.8	35
87	Comparison of chiral and racemic forms of zinc cyclohexane trans-1,2-dicarboxylate frameworks: a structural, computational, and calorimetric study. *Angewandte Chemie - International Edition*, **2008**, 47, 8634-7	16.4	35
86	Processing and Characterization of Thin Films of the Two-Layer Superconducting Phase in the Bi-Sr-Ca-Cu-O System: Evidence for Solid Solution. *Journal of the American Ceramic Society*, **1991**, 74, 123-129	3.8	35
85	Mechanical properties of a metal-organic framework containing hydrogen-bonded bifluoride linkers. *Chemical Communications*, **2013**, 49, 4471-3	5.8	34
84	Perovskite-related ReO3-type structures. *Nature Reviews Materials*, **2020**, 5, 196-213	73.3	33

83	Crystal structures of mixed-valency and mixed-metal salts A2MIII0.5SbV0.5X6 (A = Rb, Cs; M = Sb, Bi, In, Tl, Fe, Rh; X = Cl, Br). A powder neutron diffraction study. *Inorganic Chemistry*, **1985**, 24, 545-552	5.1	32
82	Variable temperature and high-pressure crystal chemistry of perovskite formamidinium lead iodide: a single crystal X-ray diffraction and computational study. *Chemical Communications*, **2017**, 53, 7537-7540	5.8	31
81	Hydrogen Bonding Controls the Structural Evolution in Perovskite-Related Hybrid Platinum(IV) Iodides. *Inorganic Chemistry*, **2018**, 57, 10375-10382	5.1	31
80	Tuneable mechanical and dynamical properties in the ferroelectric perovskite solid solution [NHNH] [NHOH] Zn(HCOO). *Chemical Science*, **2016**, 7, 5108-5112	9.4	31
79	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO2 adsorption. *Chemical Engineering Journal*, **2021**, 403, 126333	14.7	31
78	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. *Angewandte Chemie - International Edition*, **2020**, 59, 19434-19449	16.4	30
77	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. *Journal of Materials Chemistry A*, **2016**, 4, 4280-4287	13	30
76	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organic-Inorganic Perovskite. *Angewandte Chemie - International Edition*, **2018**, 57, 8932-8936	16.4	30
75	Mixed-linker solid solutions of functionalized pillared-layer MOFs - adjusting structural flexibility, gas sorption, and thermal responsiveness. *Dalton Transactions*, **2016**, 45, 4230-41	4.3	29
74	Combined single-crystal x-ray diffraction and magic angle spinning NMR study of .alpha.-CaZn2(PO4)2. *Journal of the American Chemical Society*, **1988**, 110, 1140-1143	16.4	29
73	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. *Science*, **2021**, 374, 621-625	33.3	29
72	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. *Dalton Transactions*, **2016**, 45, 4258-68	4.3	28
71	Thermal Amorphization of Zeolitic Imidazolate Frameworks. *Angewandte Chemie*, **2011**, 123, 3123-3127	3.6	28
70	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. *Nano Research*, **2020**, 13, 2289-2298	10	27
69	The competition between mechanical stability and charge carrier mobility in MA-based hybrid perovskites: insight from DFT. *Journal of Materials Chemistry C*, **2018**, 6, 12252-12259	7.1	26
68	High-Throughput Computational Screening of Metal□Organic Frameworks for Thiol Capture. *Journal of Physical Chemistry C*, **2017**, 121, 22208-22215	3.8	25
67	Pressure-Induced Bond Rearrangement and Reversible Phase Transformation in a Metal□Organic Framework. *Angewandte Chemie*, **2014**, 126, 5689-5692	3.6	24
66	Chiral, Racemic, and Meso-Lithium Tartrate Framework Polymorphs: A Detailed Structural Analysis. *Crystal Growth and Design*, **2013**, 13, 3705-3715	3.5	23

65	Coordination polymers of alkali metal trithiocyanurates: structure determinations and ionic conductivity measurements using single crystals. *CrystEngComm*, **2013**, 15, 9400	3.3	23
64	Structural diversity and luminescent properties of lanthanide 2,2- and 2,3-dimethylsuccinate frameworks. *CrystEngComm*, **2013**, 15, 100-110	3.3	23
63	Oriented Two-Dimensional Porous Organic Cage Crystals. *Angewandte Chemie - International Edition*, **2017**, 56, 9391-9395	16.4	23
62	Topotactic reduction of oxide nanomaterials: unique structure and electronic properties of reduced TiO2 nanoparticles. *Materials Horizons*, **2014**, 1, 106-110	14.4	22
61	Anion ordering in mixed valence dicesium hexachloroantimonate (Cs2SbCl6) and related salts. *Journal of the American Chemical Society*, **1983**, 105, 3366-3368	16.4	22
60	Elastic properties and acoustic dissipation associated with a disorder□order ferroelectric transition in a metal□organic framework. *CrystEngComm*, **2015**, 17, 370-374	3.3	21
59	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. *Nature Communications*, **2020**, 11, 3917	17.4	21
58	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. *Chemistry of Materials*, **2020**, 32, 7908-7920	9.6	21
57	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. *Angewandte Chemie*, **2015**, 127, 6547-6551	3.6	20
56	A new look at the structural properties of trisodium uranate Na3UO4. *Inorganic Chemistry*, **2015**, 54, 3552-61	5.1	20
55	Structural Properties and Charge Distribution of the Sodium Uranium, Neptunium, and Plutonium Ternary Oxides: A Combined X-ray Diffraction and XANES Study. *Inorganic Chemistry*, **2016**, 55, 1569-79	5.1	20
54	Cobalt adipate, Co(C6H8O4): antiferromagnetic structure, unusual thermal expansion and magnetoelastic coupling. *Materials Horizons*, **2014**, 1, 332-337	14.4	20
53	Structures and magnetic properties of Mn and Co inorganic□organic frameworks with mixed linear dicarboxylate ligands. *CrystEngComm*, **2012**, 14, 2711	3.3	20
52	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. *ACS Applied Materials & Interfaces*, **2019**, 11, 5570-5577	9.5	20
51	Stacking Faults and Mechanical Behavior beyond the Elastic Limit of an Imidazole-Based Metal Organic Framework: ZIF-8. *Journal of Physical Chemistry Letters*, **2013**, 4, 3377-81	6.4	19
50	Manganese Tetraboride, MnB4: High-Temperature Crystal Structure, p-n Transition, (55)Mn NMR Spectroscopy, Solid Solutions, and Mechanical Properties. *Chemistry - A European Journal*, **2015**, 21, 8177-81	4.8	19
49	Evolution of the structures and magnetic properties of the manganese dicarboxylates, Mn2(CO2(CH2)nCO2)(OH)2 and Mn4(CO2(CH2)nCO2)3(OH)2. *Chemical Science*, **2011**, 2, 1929	9.4	19
48	Modeling the Hydrogen Storage Materials with Exposed M2+ Coordination Sites. *Journal of Physical Chemistry C*, **2008**, 112, 16171-16173	3.8	17

47	Hidden negative linear compressibility in lithium l-tartrate. *Physical Chemistry Chemical Physics*, **2017**, 19, 3544-3549	3.6	16
46	Deep red emission in Eu2+-activated Sr4(PO4)2O phosphors for blue-pumped white LEDs. *Journal of Materials Chemistry C*, **2015**, 3, 7356-7362	7.1	16
45	Neutron diffraction study of the magnetic structures of manganese succinate Mn(C4H4O4): A complex inorganic-organic framework. *Physical Review B*, **2010**, 82,	3.3	16
44	Mixed X-Site Formate-Hypophosphite Hybrid Perovskites. *Chemistry - A European Journal*, **2018**, 24, 11309-11313	4.8	13
43	Octahedral connectivity and its role in determining the phase stabilities and electronic structures of low-dimensional, perovskite-related iodoplumbates. *APL Materials*, **2018**, 6, 114202	5.7	15
42	In Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal□Organic Frameworks. *Angewandte Chemie*, **2016**, 128, 2052-2056	3.6	14
41	Understanding ligand-centred photoluminescence through flexibility and bonding of anthraquinone inorganic□rganic frameworks. *Journal of Materials Chemistry*, **2011**, 21, 6595		14
40	Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating. *Advanced Materials*, **2019**, 31, e1901124	24	12
39	X-ray Diffraction, M□ssbauer Spectroscopy, Magnetic Susceptibility, and Specific Heat Investigations of Na4NpO5 and Na5NpO6. *Inorganic Chemistry*, **2015**, 54, 4556-64	5.1	12
38	Mechanical Properties of a Calcium Dietary Supplement, Calcium Fumarate Trihydrate. *Inorganic Chemistry*, **2015**, 54, 11186-92	5.1	12
37	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs3Fe2Br9. *Journal of Materials Chemistry C*, **2018**, 6, 3573-3577	7.1	12
36	Coordination environments and □conjugation in dense lithium coordination polymers. *CrystEngComm*, **2016**, 18, 398-406	3.3	11
35	The capricious nature of iodine catenation in I excess, perovskite-derived hybrid Pt(iv) compounds. *Chemical Communications*, **2019**, 55, 588-591	5.8	11
34	Ligand-Directed Control over Crystal Structures of Inorganic□Organic Frameworks and Formation of Solid Solutions. *Angewandte Chemie*, **2013**, 125, 5654-5657	3.6	11
33	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. *Angewandte Chemie - International Edition*, **2020**, 59, 8974-8981	16.4	10
32	Polymorphism in M(HPO) (M = V, Al, Ga) compounds with the perovskite-related ReO structure. *Chemical Communications*, **2019**, 55, 2964-2967	5.8	10
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