Anthony K Cheetham

List of Publications by Year
in descending order

202	21,547	8755 75	9588 142
papers	citations	h-index	g-index

209	209	209	20740
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural diversity and chemical trends in hybrid inorganicâ€“organic framework materials. Chemical Communications, 2006, , 4780-4795.	4.1	1,005
2	Chemically diverse and multifunctional hybrid organicâ€“inorganic perovskites. Nature Reviews Materials, 2017, 2, .	48.7	867
3	Solid-state principles applied to organicâ€“inorganic perovskites: new tricks for an old dog. Chemical Science, 2014, 5, 4712-4715.	7.4	788
4	Multiferroic Behavior Associated with an Orderâ^'Disorder Hydrogen Bonding Transition in Metalâ^'Organic Frameworks (MOFs) with the Perovskite ABX₃ Architecture. Journal of the American Chemical Society, 2009, 131, 13625-13627.	13.7	736
5	Mechanical properties of hybrid inorganicâ€“organic framework materials: establishing fundamental structureâ€“property relationships. Chemical Society Reviews, 2011, 40, 1059.	38.1	637
6	An extended Tolerance Factor approach for organicâ€“inorganic perovskites. Chemical Science, 2015, 6, 3430-3433.	7.4	587
7	Amorphous Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2014, 47, 1555-1562.	15.6	502
8	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, 9938-9943.	7.1	450
9	Orderâ^'Disorder Antiferroelectric Phase Transition in a Hybrid Inorganicâ^'Organic Framework with the Perovskite Architecture. Journal of the American Chemical Society, 2008, 130, 10450-10451.	13.7	444
10	The Effect of Pressure on ZIFâ€8: Increasing Pore Size with Pressure and the Formation of a Highâ€Pressure Phase at 1.47â€…GPa. Angewandte Chemie - International Edition, 2009, 48, 7087-7089.	13.8	444
11	The role of temperature in the synthesis of hybrid inorganicâ€“organic materials: the example of cobalt succinates. Chemical Communications, 2004, , 368-369.	4.1	382
12	Rapid Roomâ€Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. Angewandte Chemie - International Edition, 2010, 49, 9640-9643.	13.8	378
13	Understanding of Electrochemical Mechanisms for CO₂ Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). ACS Nano, 2017, 11, 10825-10833.	14.6	359
14	Carbon with hierarchical pores from carbonized metalâ€“organic frameworks for lithium sulphur batteries. Chemical Communications, 2013, 49, 2192.	4.1	354
15	Interplay between defects, disorder and flexibility in metal-organic frameworks. Nature Chemistry, 2017, 9, 11-16.	13.6	342
16	There's Room in the Middle. Science, 2007, 318, 58-59.	12.6	337
17	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH₃NH₃)₂AgBiBr₆. Chemistry of Materials, 2017, 29, 1089-1094.	6.7	290
18	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, 7608-7611.	13.8	286

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19	The synthesis, structure and electronic properties of a lead-free hybrid inorganicâ€“organic double perovskite (MA)₂KBiCl₆ (MA = methylammonium). Materials Horizons, 2016, 3, 328-332.	12.2	284
20	Porous Organic Cage Thin Films and Molecularâ€Sieving Membranes. Advanced Materials, 2016, 28, 2629-2637.	21.0	275
21	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. Nature Communications, 2014, 5, 4813.	12.8	252
22	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	13.7	252
23	Negative Linear Compressibility of a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 11940-11943.	13.7	251
24	Exploring the properties of lead-free hybrid double perovskites using a combined computational-experimental approach. Journal of Materials Chemistry A, 2016, 4, 12025-12029.	10.3	250
25	Structure and Properties of an Amorphous Metal-Organic Framework. Physical Review Letters, 2010, 104, 115503.	7.8	246
26	Hybrid glasses from strong and fragile metal-organic framework liquids. Nature Communications, 2015, 6, 8079.	12.8	242
27	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. Chemical Communications, 2018, 54, 5268-5288.	4.1	237
28	Cobalt oxide and N-doped carbon nanosheets derived from a single two-dimensional metalâ€“organic framework precursor and their application in flexible asymmetric supercapacitors. Nanoscale Horizons, 2017, 2, 99-105.	8.0	227
29	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. CrystEngComm, 2009, 11, 2272.	2.6	217
30	Resolving the Physical Origin of Octahedral Tilting in Halide Perovskites. Chemistry of Materials, 2016, 28, 4259-4266.	6.7	211
31	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1803768.	19.5	204
32	Mechanical properties of organicâ€“inorganic halide perovskites, CH₃NH₃PbX₃ (X = I, Br and Cl), by nanoindentation. Journal of Materials Chemistry A, 2015, 3, 18450-18455.	10.3	197
33	Janus Membranes: Creating Asymmetry for Energy Efficiency. Advanced Materials, 2018, 30, e1801495.	21.0	193
34	Reversible pressure-induced amorphization of a zeolitic imidazolate framework (ZIF-4). Chemical Communications, 2011, 47, 7983.	4.1	192
35	Facile Mechanosynthesis of Amorphous Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2011, 133, 14546-14549.	13.7	184
36	How Strong Is the Hydrogen Bond in Hybrid Perovskites?. Journal of Physical Chemistry Letters, 2017, 8, 6154-6159.	4.6	174

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37	Role of hydrogen-bonding and its interplay with octahedral tilting in CH₃NH₃PbI₃. Chemical Communications, 2015, 51, 6434-6437.	4.1	173
38	Fundamental Carrier Lifetime Exceeding 1 Âµs in Cs₂AgBiBr₆ Double Perovskite. Advanced Materials Interfaces, 2018, 5, 1800464.	3.7	173
39	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. Journal of the American Chemical Society, 2020, 142, 13582-13589.	13.7	173
40	Theoretical Calculations on Silica Frameworks and Their Correlation with Experiment. Chemistry of Materials, 1994, 6, 1647-1650.	6.7	166
41	Mechanical Tunability via Hydrogen Bonding in Metalâ€“Organic Frameworks with the Perovskite Architecture. Journal of the American Chemical Society, 2014, 136, 7801-7804.	13.7	160
42	Defects and disorder in metal organic frameworks. Dalton Transactions, 2016, 45, 4113-4126.	3.3	159
43	Phase Transitions in Zeolitic Imidazolate Framework 7: The Importance of Framework Flexibility and Guest-Induced Instability. Chemistry of Materials, 2014, 26, 1767-1769.	6.7	150
44	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. Journal of the American Chemical Society, 2019, 141, 19099-19109.	13.7	144
45	Correlations between 31P n.m.r. chemical shifts and structural parameters in crystalline inorganic phosphates. Journal of the Chemical Society Chemical Communications, 1986, , 195.	2.0	142
46	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. Science, 2021, 374, 621-625.	12.6	137
47	Hierarchical bicontinuous porosity in metalâ€“organic frameworks templated from functional block co-oligomer micelles. Chemical Science, 2013, 4, 3573.	7.4	124
48	Mechanical Properties of Dense Zeolitic Imidazolate Frameworks (ZIFs): A Highâ€Pressure Xâ€ray Diffraction, Nanoindentation and Computational Study of the Zinc Framework Zn(Im)₂, and its Lithiumï£¿Boron Analogue, LiB(Im)₄. Chemistry - A European Journal, 2010, 16, 10684-10690.	3.3	119
49	Enhanced visible light absorption for lead-free double perovskite Cs₂AgSbBr₆. Chemical Communications, 2019, 55, 3721-3724.	4.1	117
50	Thermodynamic and Kinetic Effects in the Crystallization of Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2018, 51, 659-667.	15.6	115
51	Thermochemistry of Zeolitic Imidazolate Frameworks of Varying Porosity. Journal of the American Chemical Society, 2013, 135, 598-601.	13.7	112
52	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.	13.7	107
53	Oxide phosphors for efficient light upconversion: Yb3+ and Er3+ co-doped Ln2BaZnO5 (Ln = Y, Gd). Journal of Materials Chemistry, 2010, 20, 3989.	6.7	106
54	Synthesis, crystal structure, and properties of a perovskite-related bismuth phase, (NH4)3Bi2I9. APL Materials, 2016, 4, .	5.1	106

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55	Ce³⁺-Activated Î³-Ca₂SiO₄ and Other Olivine-Type ABXO₄ Phosphors for Solid-State Lighting. Chemistry of Materials, 2014, 26, 3966-3975.	6.7	104
56	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 4-18.	6.7	104
57	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. Npj Quantum Materials, 2016, 1, .	5.2	103
58	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. Nature Communications, 2019, 10, 1340.	12.8	100
59	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.	6.7	99
60	Liquid exfoliation of alkyl-ether functionalised layered metalâ€“organic frameworks to nanosheets. Chemical Communications, 2016, 52, 10474-10477.	4.1	98
61	Structure and Magnetism of VSB-2, -3, and -4 or Ni4(O3P-(CH2)-PO3)2Â·(H2O)n(n= 3, 2, 0), the First Ferromagnetic Nickel(II) Diphosphonates:Â Increase of Dimensionality and Multiple Coordination Changes during a Quasi Topotactic Dehydration. Chemistry of Materials, 1999, 11, 2937-2947.	6.7	94
62	Dimensionality Trends in Metalâ^'Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. Crystal Growth and Design, 2010, 10, 2041-2043.	3.0	92
63	A chemical map of NaSICON electrode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 281-292.	10.3	91
64	Epitaxial growth and properties of metastable BiMnO3 thin films. Applied Physics Letters, 2004, 84, 91-93.	3.3	90
65	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIFâ€4. Angewandte Chemie - International Edition, 2015, 54, 6447-6451.	13.8	87
66	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOFâ€“Guest Polyhedra. Journal of the American Chemical Society, 2018, 140, 6130-6136.	13.7	87
67	Insulator-to-Proton-Conductor Transition in a Dense Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 6428-6431.	13.7	83
68	Enhanced H2 adsorption enthalpy in the low-surface area, partially fluorinated coordination polymer Zn5(triazole)6(tetrafluoroterephthalate)2(H2O)2Â·4H2O. Journal of Materials Chemistry, 2009, 19, 4307.	6.7	80
69	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. ChemSusChem, 2017, 10, 3740-3745.	6.8	80
70	3D-Printing of Pure Metalâ€“Organic Framework Monoliths. , 2019, 1, 147-153.		80
71	Anionic Metalâ€“Organic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligandâ€Sensitized Photoluminescence. European Journal of Inorganic Chemistry, 2010, 2010, 3823-3828.	2.0	79
72	Influence of ligand field stabilization energy on the elastic properties of multiferroic MOFs with the perovskite architecture. Dalton Transactions, 2012, 41, 3949.	3.3	79

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73	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. Chemistry of Materials, 2008, 20, 6396-6404.	6.7	78
74	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, 15375-15386.	13.7	78
75	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO2 adsorption. Chemical Engineering Journal, 2021, 403, 126333.	12.7	78
76	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. APL Materials, 2014, 2, .	5.1	76
77	[Am]Mn(H₂POO)₃: A New Family of Hybrid Perovskites Based on the Hypophosphite Ligand. Journal of the American Chemical Society, 2017, 139, 16999-17002.	13.7	75
78	Synthesis, structure and optical properties of cerium-doped calcium barium phosphate â€“ a novel blue-green phosphor for solid-state lighting. Journal of Materials Chemistry C, 2015, 3, 204-210.	5.5	74
79	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie - International Edition, 2020, 59, 19434-19449.	13.8	73
80	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. Journal of Materials Chemistry A, 2016, 4, 270-279.	10.3	69
81	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CH₃NH₃)₂KGdCl₆ and (CH₃NH₃)₂KYCl₆. Journal of Physical Chemistry Letters, 2017, 8, 5015-5020.	4.6	68
82	Research Update: Mechanical properties of metal-organic frameworks â€“ Influence of structure and chemical bonding. APL Materials, 2014, 2, 123902.	5.1	67
83	Role of entropic effects in controlling the polymorphism in formate ABX₃ metalâ€“organic frameworks. Chemical Communications, 2015, 51, 15538-15541.	4.1	66
84	Tunable, Ligand-Based Emission from Inorganicâ€'Organic Frameworks: A New Approach to Phosphors for Solid State Lighting and Other Applications. Chemistry of Materials, 2010, 22, 2255-2260.	6.7	63
85	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. Chemical Science, 2018, 9, 1654-1660.	7.4	63
86	Dimethylammonium copper formate [(CH3)2NH2]Cu(HCOO)3: A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. Physical Review B, 2013, 87, .	3.2	62
87	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals â€“ a nanoindentation study. Chemical Science, 2014, 5, 2392.	7.4	62
88	Organised chaos: entropy in hybrid inorganicâ€“organic systems and other materials. Chemical Science, 2016, 7, 6316-6324.	7.4	62
89	Perovskite-related ReO3-type structures. Nature Reviews Materials, 2020, 5, 196-213.	48.7	62
90	Bismuth 2,6-pyridinedicarboxylates: Assembly of molecular units into coordination polymers, CO2 sorption and photoluminescence. Dalton Transactions, 2012, 41, 4126.	3.3	60

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91	Functional conductive nanomaterials via polymerisation in nano-channels: PEDOT in a MOF. Materials Horizons, 2017, 4, 64-71.	12.2	60
92	Chemical and Structural Diversity in Chiral Magnesium Tartrates and their Racemic and Meso Analogues. Crystal Growth and Design, 2007, 7, 1522-1532.	3.0	59
93	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. Chemistry of Materials, 2020, 32, 7908-7920.	6.7	58
94	Role of Amineâ€“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.	6.7	55
95	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. Nature Communications, 2020, 11, 3917.	12.8	55
96	Oxide phosphors for light upconversion; Yb3+ and Tm3+ co-doped Y2BaZnO5. Journal of Applied Physics, 2011, 109, .	2.5	54
97	Inâ€…Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2012-2016.	13.8	53
98	Thermodynamic and kinetic factors in the hydrothermal synthesis of hybrid frameworks: zinc 4-cyclohexene-1,2-dicarboxylates. Chemical Communications, 2006, , 2687.	4.1	52
99	Synthesis, structure and optical properties of europium doped calcium barium phosphate â€“ a novel phosphor for solid-state lighting. Journal of Materials Chemistry C, 2014, 2, 6084.	5.5	51
100	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. Nano Research, 2020, 13, 2289-2298.	10.4	51
101	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. Journal of the American Chemical Society, 2022, 144, 5795-5811.	13.7	50
102	The role of static disorder in negative thermal expansion in ReO3. Journal of Applied Physics, 2009, 105, .	2.5	49
103	Microscopic origin of entropy-driven polymorphism in hybrid organic-inorganic perovskite materials. Physical Review B, 2016, 94, .	3.2	48
104	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. Chemical Communications, 2018, 54, 3751-3754.	4.1	48
105	Comparison of the relative stability of zinc and lithium-boron zeolitic imidazolate frameworks. CrystEngComm, 2012, 14, 374-378.	2.6	47
106	Origin of Ferroelectricity in Two Prototypical Hybrid Organicâ€“Inorganic Perovskites. Journal of the American Chemical Society, 2022, 144, 816-823.	13.7	47
107	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organicâ€“Inorganic Perovskite. Angewandte Chemie - International Edition, 2018, 57, 8932-8936.	13.8	46
108	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.	4.1	43

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109	Processing and Characterization of Thin Films of the Two-Layer Superconducting Phase in the BiSrCaCuO System: Evidence for Solid Solution. Journal of the American Ceramic Society, 1991, 74, 123-129.	3.8	42
110	Structural Diversity in Coordination Polymers Composed of Divalent Transition Metals, 2,2â€²-Bipyridine, and Perfluorinated Dicarboxylates. Crystal Growth and Design, 2009, 9, 4759-4765.	3.0	42
111	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.	5.5	42
112	Crystal structures of mixed-valency and mixed-metal salts A2MIII0.5SbV0.5X6 (A = Rb, Cs; M = Sb, Bi, In,) Tj ETQq0 0 0 rgBT /Overlock 10	4.0	41
113	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	40
114	Mixed-linker solid solutions of functionalized pillared-layer MOFs â€“ adjusting structural flexibility, gas sorption, and thermal responsiveness. Dalton Transactions, 2016, 45, 4230-4241.	3.3	40
115	Hydrogen Bonding Controls the Structural Evolution in Perovskite-Related Hybrid Platinum(IV) Iodides. Inorganic Chemistry, 2018, 57, 10375-10382.	4.0	40
116	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.	3.0	39
117	High-Throughput Computational Screening of Metalâ€“Organic Frameworks for Thiol Capture. Journal of Physical Chemistry C, 2017, 121, 22208-22215.	3.1	38
118	Why are Double Perovskite Iodides so Rare?. Journal of Physical Chemistry C, 2021, 125, 11756-11764.	3.1	38
119	Comparison of Chiral and Racemic Forms of Zinc Cyclohexane transâ€1,2â€Dicarboxylate Frameworks: A Structural, Computational, and Calorimetric Study. Angewandte Chemie - International Edition, 2008, 47, 8634-8637.	13.8	37
120	Synthesis, Structure and Magnetic Phase Transitions of the Manganese Succinate Hybrid Framework, Mn(C₄H₄O₄). Chemistry - A European Journal, 2010, 16, 7579-7585.	3.3	37
121	Mechanical properties of a metalâ€“organic framework containing hydrogen-bonded bifluoride linkers. Chemical Communications, 2013, 49, 4471.	4.1	37
122	Structural Origin of Enhanced Circularly Polarized Luminescence in Hybrid Manganese Bromides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	37
123	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. Journal of Materials Chemistry A, 2016, 4, 4280-4287.	10.3	35
124	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. Dalton Transactions, 2016, 45, 4258-4268.	3.3	34
125	Tuneable mechanical and dynamical properties in the ferroelectric perovskite solid solution [NH₃NH₂]_{1â”x}[NH₃OH]_xZn(HCOO)₃. Chemical Science, 2016, 7, 5108-5112.	9.4	33
126	Layered Double Perovskites. Annual Review of Materials Research, 2021, 51, 351-380.	9.3	33

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127	Oriented Twoâ€Dimensional Porous Organic Cage Crystals. Angewandte Chemie - International Edition, 2017, 56, 9391-9395.	13.8	33
128	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.	13.7	30
129	Pressureâ€Induced Bond Rearrangement and Reversible Phase Transformation in a Metalâ€“Organic Framework. Angewandte Chemie, 2014, 126, 5689-5692.	2.0	29
130	Unraveling the Interfacial Structureâ€“Performance Correlation of Flexible Metalâ€“Organic Framework Membranes on Polymeric Substrates. ACS Applied Materials & Interfaces, 2019, 11, 5570-5577.	8.0	29
131	Coordination polymers of alkali metal trithiocyanurates: structure determinations and ionic conductivity measurements using single crystals. CrystEngComm, 2013, 15, 9400.	2.6	28
132	Topotactic reduction of oxide nanomaterials: unique structure and electronic properties of reduced TiO₂nanoparticles. Materials Horizons, 2014, 1, 106-110.	12.2	28
133	Manganese Tetraboride, MnB₄: Highâ€Temperature Crystal Structure, pâ€“n Transition, ⁵⁵Mn NMR Spectroscopy, Solid Solutions, and Mechanical Properties. Chemistry - A European Journal, 2015, 21, 8177-8181.	3.3	26
134	Flexibility and disorder in metalâ€“organic frameworks. Dalton Transactions, 2016, 45, 4058-4059.	3.3	26
135	The Renaissance of Functional Hybrid Transition-Metal Halides. Accounts of Materials Research, 2022, 3, 439-448.	11.7	26
136	Anion ordering in mixed valence dicesium hexachloroantimonate (Cs2SbCl6) and related salts. Journal of the American Chemical Society, 1983, 105, 3366-3368.	13.7	25
137	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs₃Fe₂Br₉. Journal of Materials Chemistry C, 2018, 6, 3573-3577.	5.5	25
138	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. Angewandte Chemie - International Edition, 2020, 59, 8974-8981.	13.8	25
139	Structural diversity and luminescent properties of lanthanide 2,2- and 2,3-dimethylsuccinate frameworks. CrystEngComm, 2013, 15, 100-110.	2.6	24
140	Phase stability and sodium-vacancy orderings in a NaSICON electrode. Journal of Materials Chemistry A, 2021, 10, 209-217.	10.3	24
141	Chiral, Racemic, and Meso-Lithium Tartrate Framework Polymorphs: A Detailed Structural Analysis. Crystal Growth and Design, 2013, 13, 3705-3715.	3.0	23
142	Elastic properties and acoustic dissipation associated with a disorderâ€“order ferroelectric transition in a metalâ€“organic framework. CrystEngComm, 2015, 17, 370-374.	2.6	23
143	Octahedral connectivity and its role in determining the phase stabilities and electronic structures of low-dimensional, perovskite-related iodoplumbates. APL Materials, 2018, 6, .	5.1	23
144	Hybrid Layered Double Perovskite Halides of Transition Metals. Journal of the American Chemical Society, 2022, 144, 6661-6666.	13.7	23

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145	A New Look at the Structural Properties of Trisodium Uranate Na₃UO₄. Inorganic Chemistry, 2015, 54, 3552-3561.	4.0	22
146	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, 3377-3381.	4.6	21
147	Cobalt adipate, Co(C₆H₈O₄): antiferromagnetic structure, unusual thermal expansion and magnetoelastic coupling. Materials Horizons, 2014, 1, 332-337.	12.2	21
148	Deep red emission in Eu²⁺-activated Sr₄(PO₄)₂O phosphors for blue-pumped white LEDs. Journal of Materials Chemistry C, 2015, 3, 7356-7362.	5.5	21
149	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, 1569-1579.	4.0	21
150	Structures and magnetic properties of Mn and Co inorganicâ€“organic frameworks with mixed linear dicarboxylate ligands. CrystEngComm, 2012, 14, 2711.	2.6	20
151	An Ultrathin Functional Layer Based on Porous Organic Cages for Selective Ion Sieving and Lithiumâ€“Sulfur Batteries. Nano Letters, 2022, 22, 2030-2037.	9.1	20
152	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.	7.4	19
153	Hidden negative linear compressibility in lithium<scp>l</scp>-tartrate. Physical Chemistry Chemical Physics, 2017, 19, 3544-3549.	2.8	19
154	Mixed Xâ€Site Formateâ€“Hypophosphite Hybrid Perovskites. Chemistry - A European Journal, 2018, 24, 11309-11313.	3.3	19
155	Guest-mediated phase transitions in a flexible pillared-layered metalâ€“organic framework under high-pressure. Chemical Science, 2021, 12, 13793-13801.	7.4	19
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157	Chemical Control of Spinâ€Orbit Coupling and Charge Transfer in Vacancyâ€Ordered Ruthenium(IV) Halide Perovskites. Angewandte Chemie - International Edition, 2021, 60, 5184-5188.	13.8	18
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