

Anthony K Cheetham

List of Publications by Year in descending order

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202
papers

21,547
citations

8755

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209
docs citations

209
times ranked

20740
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural diversity and chemical trends in hybrid inorganic-organic framework materials. <i>Chemical Communications</i> , 2006, , 4780-4795.	4.1	1,005
2	Chemically diverse and multifunctional hybrid organic-inorganic perovskites. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	867
3	Solid-state principles applied to organic-inorganic perovskites: new tricks for an old dog. <i>Chemical Science</i> , 2014, 5, 4712-4715.	7.4	788
4	Multiferroic Behavior Associated with an Order-Disorder Hydrogen Bonding Transition in Metal-Organic Frameworks (MOFs) with the Perovskite ABX_3 Architecture. <i>Journal of the American Chemical Society</i> , 2009, 131, 13625-13627.	13.7	736
5	Mechanical properties of hybrid inorganic-organic framework materials: establishing fundamental structure-property relationships. <i>Chemical Society Reviews</i> , 2011, 40, 1059.	38.1	637
6	An extended Tolerance Factor approach for organic-inorganic perovskites. <i>Chemical Science</i> , 2015, 6, 3430-3433.	7.4	587
7	Amorphous Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2014, 47, 1555-1562.	15.6	502
8	Chemical structure, network topology, and porosity effects on the mechanical properties of Zeolitic Imidazolate Frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9938-9943.	7.1	450
9	Order-Disorder Antiferroelectric Phase Transition in a Hybrid Inorganic-Organic Framework with the Perovskite Architecture. <i>Journal of the American Chemical Society</i> , 2008, 130, 10450-10451.	13.7	444
10	The Effect of Pressure on ZIF-8: Increasing Pore Size with Pressure and the Formation of a High-Pressure Phase at 1.47 GPa. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7087-7089.	13.8	444
11	The role of temperature in the synthesis of hybrid inorganic-organic materials: the example of cobalt succinates. <i>Chemical Communications</i> , 2004, , 368-369.	4.1	382
12	Rapid Room-Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9640-9643.	13.8	378
13	Understanding of Electrochemical Mechanisms for CO_2 Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). <i>ACS Nano</i> , 2017, 11, 10825-10833.	14.6	359
14	Carbon with hierarchical pores from carbonized metal-organic frameworks for lithium sulphur batteries. <i>Chemical Communications</i> , 2013, 49, 2192.	4.1	354
15	Interplay between defects, disorder and flexibility in metal-organic frameworks. <i>Nature Chemistry</i> , 2017, 9, 11-16.	13.6	342
16	There's Room in the Middle. <i>Science</i> , 2007, 318, 58-59.	12.6	337
17	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: $(CH_3NH_3)_2AgBiBr_6$. <i>Chemistry of Materials</i> , 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. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7608-7611.	13.8	286

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

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37	Role of hydrogen-bonding and its interplay with octahedral tilting in $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Chemical Communications</i> , 2015, 51, 6434-6437.	4.1	173
38	Fundamental Carrier Lifetime Exceeding 1 μs in $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800464.	3.7	173
39	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. <i>Journal of the American Chemical Society</i> , 2020, 142, 13582-13589.	13.7	173
40	Theoretical Calculations on Silica Frameworks and Their Correlation with Experiment. <i>Chemistry of Materials</i> , 1994, 6, 1647-1650.	6.7	166
41	Mechanical Tunability via Hydrogen Bonding in Metal-Organic Frameworks with the Perovskite Architecture. <i>Journal of the American Chemical Society</i> , 2014, 136, 7801-7804.	13.7	160
42	Defects and disorder in metal organic frameworks. <i>Dalton Transactions</i> , 2016, 45, 4113-4126.	3.3	159
43	Phase Transitions in Zeolitic Imidazolate Framework 7: The Importance of Framework Flexibility and Guest-Induced Instability. <i>Chemistry of Materials</i> , 2014, 26, 1767-1769.	6.7	150
44	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. <i>Journal of the American Chemical Society</i> , 2019, 141, 19099-19109.	13.7	144
45	Correlations between ^{31}P n.m.r. chemical shifts and structural parameters in crystalline inorganic phosphates. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 195.	2.0	142
46	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. <i>Science</i> , 2021, 374, 621-625.	12.6	137
47	Hierarchical bicontinuous porosity in metal-organic frameworks templated from functional block co-oligomer micelles. <i>Chemical Science</i> , 2013, 4, 3573.	7.4	124
48	Mechanical Properties of Dense Zeolitic Imidazolate Frameworks (ZIFs): A High-Pressure X-ray Diffraction, Nanoindentation and Computational Study of the Zinc Framework $\text{Zn}(\text{Im})_2$, and its Lithium-Boron Analogue, $\text{LiB}(\text{Im})_4$. <i>Chemistry - A European Journal</i> , 2010, 16, 10684-10690.	3.3	119
49	Enhanced visible light absorption for lead-free double perovskite $\text{Cs}_2\text{AgSbBr}_6$. <i>Chemical Communications</i> , 2019, 55, 3721-3724.	4.1	117
50	Thermodynamic and Kinetic Effects in the Crystallization of Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2018, 51, 659-667.	15.6	115
51	Thermochemistry of Zeolitic Imidazolate Frameworks of Varying Porosity. <i>Journal of the American Chemical Society</i> , 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. <i>Journal of the American Chemical Society</i> , 1990, 112, 4670-4675.	13.7	107
53	Oxide phosphors for efficient light upconversion: Yb^{3+} and Er^{3+} co-doped $\text{Ln}_2\text{BaZnO}_5$ ($\text{Ln} = \text{Y}, \text{Gd}$). <i>Journal of Materials Chemistry</i> , 2010, 20, 3989.	6.7	106
54	Synthesis, crystal structure, and properties of a perovskite-related bismuth phase, $(\text{NH}_4)_3\text{Bi}_2\text{I}_9$. <i>APL Materials</i> , 2016, 4, .	5.1	106

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55	Ce ³⁺ -Activated Ca_2SiO_4 and Other Olivine-Type ABXO_4 Phosphors for Solid-State Lighting. <i>Chemistry of Materials</i> , 2014, 26, 3966-3975.	6.7	104
56	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021, 33, 4-18.	6.7	104
57	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	103
58	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. <i>Nature Communications</i> , 2019, 10, 1340.	12.8	100
59	Efficient oxide phosphors for light upconversion; green emission from Yb^{3+} and Ho^{3+} -co-doped $\text{Ln}_2\text{BaZnO}_5$ ($\text{Ln} = \text{Y}, \text{Gd}$). <i>Journal of Materials Chemistry</i> , 2011, 21, 1387-1394.	6.7	99
60	Liquid exfoliation of alkyl-ether functionalised layered metal-organic frameworks to nanosheets. <i>Chemical Communications</i> , 2016, 52, 10474-10477.	4.1	98
61	Structure and Magnetism of VSB-2, -3, and -4 or $\text{Ni}_4(\text{O}_3\text{P}(\text{CH}_2)\text{PO}_3)_2 \cdot (\text{H}_2\text{O})_n$ ($n = 3, 2, 0$), the First Ferromagnetic Nickel(II) Diphosphonates: An Increase of Dimensionality and Multiple Coordination Changes during a Quasi Topotactic Dehydration. <i>Chemistry of Materials</i> , 1999, 11, 2937-2947.	6.7	94
62	Dimensionality Trends in Metal-Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. <i>Crystal Growth and Design</i> , 2010, 10, 2041-2043.	3.0	92
63	A chemical map of NaSICON electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 281-292.	10.3	91
64	Epitaxial growth and properties of metastable BiMnO_3 thin films. <i>Applied Physics Letters</i> , 2004, 84, 91-93.	3.3	90
65	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4 . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6447-6451.	13.8	87
66	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF-Guest Polyhedra. <i>Journal of the American Chemical Society</i> , 2018, 140, 6130-6136.	13.7	87
67	Insulator-to-Proton-Conductor Transition in a Dense Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 6428-6431.	13.7	83
68	Enhanced H_2 adsorption enthalpy in the low-surface area, partially fluorinated coordination polymer $\text{Zn}_5(\text{triazole})_6(\text{tetrafluoroterephthalate})_2(\text{H}_2\text{O})_2 \cdot 4\text{H}_2\text{O}$. <i>Journal of Materials Chemistry</i> , 2009, 19, 4307.	6.7	80
69	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017, 10, 3740-3745.	6.8	80
70	3D-Printing of Pure Metal-Organic Framework Monoliths. , 2019, 1, 147-153.		80
71	Anionic Metal-Organic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligand-Sensitized Photoluminescence. <i>European Journal of Inorganic Chemistry</i> , 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. <i>Dalton Transactions</i> , 2012, 41, 3949.	3.3	79

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73	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. <i>Chemistry of Materials</i> , 2008, 20, 6396-6404.	6.7	78
74	Phase Selection and Energetics in Chiral Alkaline Earth Tartrates and Their Racemic and <i>Meso</i> Analogues: Synthetic, Structural, Computational, and Calorimetric Studies. <i>Journal of the American Chemical Society</i> , 2009, 131, 15375-15386.	13.7	78
75	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO ₂ adsorption. <i>Chemical Engineering Journal</i> , 2021, 403, 126333.	12.7	78
76	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. <i>APL Materials</i> , 2014, 2, .	5.1	76
77	[Am]Mn(H ₂ POO) ₃ : A New Family of Hybrid Perovskites Based on the Hypophosphite Ligand. <i>Journal of the American Chemical Society</i> , 2017, 139, 16999-17002.	13.7	75
78	Synthesis, structure and optical properties of cerium-doped calcium barium phosphate – a novel blue-green phosphor for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2015, 3, 204-210.	5.5	74
79	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19434-19449.	13.8	73
80	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 270-279.	10.3	69
81	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CH ₃ NH ₃) ₂ KGdCl ₆ and (CH ₃ NH ₃) ₂ KYCl ₆ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5015-5020.	4.6	68
82	Research Update: Mechanical properties of metal-organic frameworks – Influence of structure and chemical bonding. <i>APL Materials</i> , 2014, 2, 123902.	5.1	67
83	Role of entropic effects in controlling the polymorphism in formate ABX ₃ metal-organic frameworks. <i>Chemical Communications</i> , 2015, 51, 15538-15541.	4.1	66
84	Tunable, Ligand-Based Emission from Inorganic-Organic Frameworks: A New Approach to Phosphors for Solid State Lighting and Other Applications. <i>Chemistry of Materials</i> , 2010, 22, 2255-2260.	6.7	63
85	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. <i>Chemical Science</i> , 2018, 9, 1654-1660.	7.4	63
86	Dimethylammonium copper formate [(CH ₃) ₂ NH ₂]Cu(HCOO) ₃ : A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. <i>Physical Review B</i> , 2013, 87, .	3.2	62
87	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals – a nanoindentation study. <i>Chemical Science</i> , 2014, 5, 2392.	7.4	62
88	Organised chaos: entropy in hybrid inorganic-organic systems and other materials. <i>Chemical Science</i> , 2016, 7, 6316-6324.	7.4	62
89	Perovskite-related ReO ₃ -type structures. <i>Nature Reviews Materials</i> , 2020, 5, 196-213.	48.7	62
90	Bismuth 2,6-pyridinedicarboxylates: Assembly of molecular units into coordination polymers, CO ₂ sorption and photoluminescence. <i>Dalton Transactions</i> , 2012, 41, 4126.	3.3	60

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91	Functional conductive nanomaterials via polymerisation in nano-channels: PEDOT in a MOF. <i>Materials Horizons</i> , 2017, 4, 64-71.	12.2	60
92	Chemical and Structural Diversity in Chiral Magnesium Tartrates and their Racemic and <i>Meso</i> Analogues. <i>Crystal Growth and Design</i> , 2007, 7, 1522-1532.	3.0	59
93	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. <i>Chemistry of Materials</i> , 2020, 32, 7908-7920.	6.7	58
94	Role of Amine-Cavity Interactions in Determining the Structure and Mechanical Properties of the Ferroelectric Hybrid Perovskite $[\text{NH}_3\text{NH}_2]\text{Zn}(\text{HCOO})_3$. <i>Chemistry of Materials</i> , 2016, 28, 312-317.	6.7	55
95	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. <i>Nature Communications</i> , 2020, 11, 3917.	12.8	55
96	Oxide phosphors for light upconversion; Yb ³⁺ and Tm ³⁺ co-doped Y ₂ BaZnO ₅ . <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	54
97	In-situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 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. <i>Chemical Communications</i> , 2006, , 2687.	4.1	52
99	Synthesis, structure and optical properties of europium doped calcium barium phosphate – a novel phosphor for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6084.	5.5	51
100	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. <i>Nano Research</i> , 2020, 13, 2289-2298.	10.4	51
101	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. <i>Journal of the American Chemical Society</i> , 2022, 144, 5795-5811.	13.7	50
102	The role of static disorder in negative thermal expansion in ReO ₃ . <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	49
103	Microscopic origin of entropy-driven polymorphism in hybrid organic-inorganic perovskite materials. <i>Physical Review B</i> , 2016, 94, .	3.2	48
104	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. <i>Chemical Communications</i> , 2018, 54, 3751-3754.	4.1	48
105	Comparison of the relative stability of zinc and lithium-boron zeolitic imidazolate frameworks. <i>CrystEngComm</i> , 2012, 14, 374-378.	2.6	47
106	Origin of Ferroelectricity in Two Prototypical Hybrid Organic-Inorganic Perovskites. <i>Journal of the American Chemical Society</i> , 2022, 144, 816-823.	13.7	47
107	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organic-Inorganic Perovskite. <i>Angewandte Chemie - International Edition</i> , 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. <i>Chemical Communications</i> , 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. <i>Journal of the American Ceramic Society</i> , 1991, 74, 123-129.	3.8	42
110	Structural Diversity in Coordination Polymers Composed of Divalent Transition Metals, 2,2'-Bipyridine, and Perfluorinated Dicarboxylates. <i>Crystal Growth and Design</i> , 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. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12252-12259.	5.5	42
112	Crystal structures of mixed-valency and mixed-metal salts $A_2MIII0.5SbV0.5X_6$ (A = Rb, Cs; M = Sb, Bi, In.) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	4.0	41
113	Near infrared up-conversion in organic photovoltaic devices using an efficient Yb ³⁺ :Ho ³⁺ Co-doped Ln ₂ BaZnO ₅ (Ln = Y, Gd) phosphor. <i>Journal of Applied Physics</i> , 2012, 111, 094502.	2.5	40
114	Mixed-linker solid solutions of functionalized pillared-layer MOFs – adjusting structural flexibility, gas sorption, and thermal responsiveness. <i>Dalton Transactions</i> , 2016, 45, 4230-4241.	3.3	40
115	Hydrogen Bonding Controls the Structural Evolution in Perovskite-Related Hybrid Platinum(IV) Iodides. <i>Inorganic Chemistry</i> , 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. <i>Crystal Growth and Design</i> , 2011, 11, 221-230.	3.0	39
117	High-Throughput Computational Screening of Metal-Organic Frameworks for Thiol Capture. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22208-22215.	3.1	38
118	Why are Double Perovskite Iodides so Rare?. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11756-11764.	3.1	38
119	Comparison of Chiral and Racemic Forms of Zinc Cyclohexane <i>trans</i> -1,2-Dicarboxylate Frameworks: A Structural, Computational, and Calorimetric Study. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8634-8637.	13.8	37
120	Synthesis, Structure and Magnetic Phase Transitions of the Manganese Succinate Hybrid Framework, Mn(C ₄ H ₄ O ₄). <i>Chemistry - A European Journal</i> , 2010, 16, 7579-7585.	3.3	37
121	Mechanical properties of a metal-organic framework containing hydrogen-bonded bifluoride linkers. <i>Chemical Communications</i> , 2013, 49, 4471.	4.1	37
122	Structural Origin of Enhanced Circularly Polarized Luminescence in Hybrid Manganese Bromides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	37
123	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4280-4287.	10.3	35
124	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. <i>Dalton Transactions</i> , 2016, 45, 4258-4268.	3.3	34
125	Tuneable mechanical and dynamical properties in the ferroelectric perovskite solid solution [NH ₃ NH ₂] _{1-x} [NH ₃ OH] _x Zn(HCOO) ₃ . <i>Chemical Science</i> , 2016, 7, 5108-5112.		33
126	Layered Double Perovskites. <i>Annual Review of Materials Research</i> , 2021, 51, 351-380.	9.3	33

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127	Oriented Two-Dimensional Porous Organic Cage Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9391-9395.	13.8	33
128	Combined single-crystal x-ray diffraction and magic angle spinning NMR study of α -CaZn ₂ (PO ₄) ₂ . <i>Journal of the American Chemical Society</i> , 1988, 110, 1140-1143.	13.7	30
129	Pressure-Induced Bond Rearrangement and Reversible Phase Transformation in a Metal-Organic Framework. <i>Angewandte Chemie</i> , 2014, 126, 5689-5692.	2.0	29
130	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5570-5577.	8.0	29
131	Coordination polymers of alkali metal trithiocyanurates: structure determinations and ionic conductivity measurements using single crystals. <i>CrystEngComm</i> , 2013, 15, 9400.	2.6	28
132	Topotactic reduction of oxide nanomaterials: unique structure and electronic properties of reduced TiO ₂ nanoparticles. <i>Materials Horizons</i> , 2014, 1, 106-110.	12.2	28
133	Manganese Tetraboride, MnB ₄ : High-Temperature Crystal Structure, ⁵⁵ Mn NMR Spectroscopy, Solid Solutions, and Mechanical Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 8177-8181.	3.3	26
134	Flexibility and disorder in metal-organic frameworks. <i>Dalton Transactions</i> , 2016, 45, 4058-4059.	3.3	26
135	The Renaissance of Functional Hybrid Transition-Metal Halides. <i>Accounts of Materials Research</i> , 2022, 3, 439-448.	11.7	26
136	Anion ordering in mixed valence cesium hexachloroantimonate (Cs ₂ SbCl ₆) and related salts. <i>Journal of the American Chemical Society</i> , 1983, 105, 3366-3368.	13.7	25
137	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs ₃ Fe ₂ Br ₉ . <i>Journal of Materials Chemistry C</i> , 2018, 6, 3573-3577.	5.5	25
138	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8974-8981.	13.8	25
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