Anthony K Cheetham

List of Publications by Year
in descending order

202 papers	21,547 citations	10070 75 h-index	10955 142 g-index
209 all docs	209 docs citations	209 times ranked	23695 citing authors

#	Article	IF	Citations
1	Origin of Ferroelectricity in Two Prototypical Hybrid Organicâ€“Inorganic Perovskites. Journal of the American Chemical Society, 2022, 144, 816-823.	6.6	47
2	An Ultrathin Functional Layer Based on Porous Organic Cages for Selective Ion Sieving and Lithiumâ€“Sulfur Batteries. Nano Letters, 2022, 22, 2030-2037.	4.5	20
3	The Renaissance of Functional Hybrid Transition-Metal Halides. Accounts of Materials Research, 2022, 3, 439-448.	5.9	26
4	Rational Design of Mixed Polyanion Electrodes Na_xV₂P_{3â€“i}(Si/S)_iO₁₂ for Sodium Batteries. Chemistry of Materials, 2022, 34, 3373-3382.	3.2	16
5	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. Journal of the American Chemical Society, 2022, 144, 5795-5811.	6.6	50
6	Hybrid Layered Double Perovskite Halides of Transition Metals. Journal of the American Chemical Society, 2022, 144, 6661-6666.	6.6	23
7	High-Rate Lithium Cycling and Structure Evolution in Mo₄O₁₁. Chemistry of Materials, 2022, 34, 4122-4133.	3.2	13
8	Lattice Dynamics in the NASICON NaZr₂(PO₄)₃ Solid Electrolyte from Temperature-Dependent Neutron Diffraction, NMR, and Ab Initio Computational Studies. Chemistry of Materials, 2022, 34, 4029-4038.	3.2	6
9	Structural Origin of Enhanced Circularly Polarized Luminescence in Hybrid Manganese Bromides. Angewandte Chemie - International Edition, 2022, 61, .	7.2	37
10	Structural Origin of Enhanced Circularly Polarized Luminescence in Hybrid Manganese Bromides. Angewandte Chemie, 2022, 134, .	1.6	9
11	Chemical synthesis and materials discovery. , 2022, 1, 514-520.		15
12	High-Rate Electrochemical Lithium Cycling and Structure Evolution in Mo4O11. ECS Meeting Abstracts, 2022, MA2022-01, 260-260.	0.0	0
13	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO2 adsorption. Chemical Engineering Journal, 2021, 403, 126333.	6.6	78
14	Chemical Control of Spinâ€Orbit Coupling and Charge Transfer in Vacancyâ€Ordered Ruthenium(IV) Halide Perovskites. Angewandte Chemie, 2021, 133, 5244-5248.	1.6	2
15	A chemical map of NaSICON electrode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 281-292.	5.2	91
16	Chemical Control of Spinâ€Orbit Coupling and Charge Transfer in Vacancyâ€Ordered Ruthenium(IV) Halide Perovskites. Angewandte Chemie - International Edition, 2021, 60, 5184-5188.	7.2	18
17	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 4-18.	3.2	104
18	Guest-mediated phase transitions in a flexible pillared-layered metalâ€“organic framework under high-pressure. Chemical Science, 2021, 12, 13793-13801.	3.7	19

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19	Direct Pyrolysis of a Manganeseâ€Triazolate Metalâ€“Organic Framework into Airâ€Stable Manganese Nitride Nanoparticles. Advanced Science, 2021, 8, 2003212.	5.6	13
20	Why are Double Perovskite Iodides so Rare?. Journal of Physical Chemistry C, 2021, 125, 11756-11764.	1.5	38
21	(Invited) Revisiting the Structureâ€“Property Relationships in NaSICON Electrode and Electrolytes. ECS Meeting Abstracts, 2021, MA2021-01, 456-456.	0.0	0
22	Layered Double Perovskites. Annual Review of Materials Research, 2021, 51, 351-380.	4.3	33
23	Tribute to D. D. Sarma. Journal of Physical Chemistry C, 2021, 125, 19049-19052.	1.5	0
24	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. Science, 2021, 374, 621-625.	6.0	137
25	A Chemical Map of Nasicon Electrode Materials for Sodium-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 214-214.	0.0	0
26	Phase stability and sodium-vacancy orderings in a NaSICON electrode. Journal of Materials Chemistry A, 2021, 10, 209-217.	5.2	24
27	Tunable Luminescence in Hybrid Cu(I) and Ag(I) Iodides. Inorganic Chemistry, 2020, 59, 15487-15494.	1.9	8
28	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. Journal of the American Chemical Society, 2020, 142, 13582-13589.	6.6	173
29	New perspectives on emerging advanced materials for sustainability. APL Materials, 2020, 8, 070402.	2.2	0
30	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. Nature Communications, 2020, 11, 3917.	5.8	55
31	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. Chemistry of Materials, 2020, 32, 7908-7920.	3.2	58
32	Frontispiece: Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
33	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie - International Edition, 2020, 59, 19434-19449.	7.2	73
34	Intermarriage of Halide Perovskites and Metalâ€Organic Framework Crystals. Angewandte Chemie, 2020, 132, 19602-19617.	1.6	14
35	Frontispiz: Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. Angewandte Chemie, 2020, 132, .	1.6	0
36	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. Nano Research, 2020, 13, 2289-2298.	5.8	51

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37	Perovskite-related ReO3-type structures. Nature Reviews Materials, 2020, 5, 196-213.	23.3	62
38	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. Angewandte Chemie - International Edition, 2020, 59, 8974-8981.	7.2	25
39	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. Angewandte Chemie, 2020, 132, 9059-9066.	1.6	11
40	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. Inorganic Chemistry, 2020, 59, 3377-3386.	1.9	9
41	Phase Behavior in Nasicon Electrolytes and Electrodes. ECS Meeting Abstracts, 2020, MA2020-02, 1002-1002.	0.0	0
42	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. Journal of the American Chemical Society, 2019, 141, 19099-19109.	6.6	144
43	The capricious nature of iodine catenation in I₂ excess, perovskite-derived hybrid Pt(<scp>iv</scp>) compounds. Chemical Communications, 2019, 55, 588-591.	2.2	14
44	Microâ€Mesoporous Materials: Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating (Adv. Mater. 25/2019). Advanced Materials, 2019, 31, 1970182.	11.1	0
45	3D-Printing of Pure Metalâ€“Organic Framework Monoliths. , 2019, 1, 147-153.		80
46	Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating. Advanced Materials, 2019, 31, e1901124.	11.1	15
47	Ab initiocomputation for solid-state³¹P NMR of inorganic phosphates: revisiting X-ray structures. Physical Chemistry Chemical Physics, 2019, 21, 10070-10074.	1.3	10
48	Identifying the best metalâ€“organic frameworks and unravelling different mechanisms for the separation of pentane isomers. Molecular Systems Design and Engineering, 2019, 4, 609-615.	1.7	8
49	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. Nature Communications, 2019, 10, 1340.	5.8	100
50	Enhanced visible light absorption for lead-free double perovskite Cs₂AgSbBr₆. Chemical Communications, 2019, 55, 3721-3724.	2.2	117
51	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1803768.	10.2	204
52	Polymorphism in M(H₂PO₂)₃ (M = V, Al, Ga) compounds with the perovskite-related ReO₃ structure. Chemical Communications, 2019, 55, 2964-2967.	2.2	15
53	Unraveling the Interfacial Structureâ€“Performance Correlation of Flexible Metalâ€“Organic Framework Membranes on Polymeric Substrates. ACS Applied Materials & Interfaces, 2019, 11, 5570-5577.	4.0	29
54	Insights into the electronic structure of OsO2 using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. Physical Review Materials, 2019, 3, .	0.9	9

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55	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOFâ€“Guest Polyhedra. Journal of the American Chemical Society, 2018, 140, 6130-6136.	6.6	87
56	Thermodynamic and Kinetic Effects in the Crystallization of Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2018, 51, 659-667.	7.6	115
57	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. Chemical Science, 2018, 9, 1654-1660.	3.7	63
58	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. Chemical Communications, 2018, 54, 5268-5288.	2.2	237
59	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. Chemical Communications, 2018, 54, 3751-3754.	2.2	48
60	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs₃Fe₂Br₉. Journal of Materials Chemistry C, 2018, 6, 3573-3577.	2.7	25
61	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.	2.7	42
62	Janus Membrane: Janus Membranes: Creating Asymmetry for Energy Efficiency (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870328.	11.1	7
63	Octahedral connectivity and its role in determining the phase stabilities and electronic structures of low-dimensional, perovskite-related iodoplumbates. APL Materials, 2018, 6, .	2.2	23
64	Fundamental Carrier Lifetime Exceeding 1 Âµs in Cs₂AgBiBr₆ Double Perovskite. Advanced Materials Interfaces, 2018, 5, 1800464.	1.9	173
65	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organicâ€“Inorganic Perovskite. Angewandte Chemie, 2018, 130, 9070-9074.	1.6	10
66	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organicâ€“Inorganic Perovskite. Angewandte Chemie - International Edition, 2018, 57, 8932-8936.	7.2	46
67	Hydrogen Bonding Controls the Structural Evolution in Perovskite-Related Hybrid Platinum(IV) Iodides. Inorganic Chemistry, 2018, 57, 10375-10382.	1.9	40
68	Janus Membranes: Creating Asymmetry for Energy Efficiency. Advanced Materials, 2018, 30, e1801495.	11.1	193
69	Mixed Xâ€Site Formateâ€“Hypophosphite Hybrid Perovskites. Chemistry - A European Journal, 2018, 24, 11309-11313.	1.7	19
70	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.	4.1	227
71	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH₃NH₃)₂AgBiBr₆. Chemistry of Materials, 2017, 29, 1089-1094.	3.2	290
72	Chemically diverse and multifunctional hybrid organicâ€“inorganic perovskites. Nature Reviews Materials, 2017, 2, .	23.3	867

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73	A New Look at the Structural and Magnetic Properties of Potassium Neptunate K₂NpO₄ Combining XRD, XANES Spectroscopy, and Low-Temperature Heat Capacity. Inorganic Chemistry, 2017, 56, 5839-5850.	1.9	7
74	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.	2.2	43
75	Hidden negative linear compressibility in lithium<scp>l</scp>-tartrate. Physical Chemistry Chemical Physics, 2017, 19, 3544-3549.	1.3	19
76	Interplay between defects, disorder and flexibility in metal-organic frameworks. Nature Chemistry, 2017, 9, 11-16.	6.6	342
77	Encoding evolution of porous solids. Nature Chemistry, 2017, 9, 6-8.	6.6	9
78	[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.	6.6	75
79	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. ChemSusChem, 2017, 10, 3683-3683.	3.6	0
80	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CH₃NH₃)₂KGdCl₆ and (CH₃NH₃)₂KYCl₆. Journal of Physical Chemistry Letters, 2017, 8, 5015-5020.	2.1	68
81	High-Throughput Computational Screening of Metalâ€“Organic Frameworks for Thiol Capture. Journal of Physical Chemistry C, 2017, 121, 22208-22215.	1.5	38
82	Understanding of Electrochemical Mechanisms for CO₂ Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). ACS Nano, 2017, 11, 10825-10833.	7.3	359
83	How Strong Is the Hydrogen Bond in Hybrid Perovskites?. Journal of Physical Chemistry Letters, 2017, 8, 6154-6159.	2.1	174
84	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. ChemSusChem, 2017, 10, 3740-3745.	3.6	80
85	Functional conductive nanomaterials via polymerisation in nano-channels: PEDOT in a MOF. Materials Horizons, 2017, 4, 64-71.	6.4	60
86	Oriented Twoâ€Dimensional Porous Organic Cage Crystals. Angewandte Chemie, 2017, 129, 9519-9523.	1.6	13
87	Oriented Twoâ€Dimensional Porous Organic Cage Crystals. Angewandte Chemie - International Edition, 2017, 56, 9391-9395.	7.2	33
88	Porous Organic Cage Thin Films and Molecularâ€Sieving Membranes. Advanced Materials, 2016, 28, 2629-2637.	11.1	275
89	Inâ€…Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2012-2016.	7.2	53
90	Molecular Sieves: Porous Organic Cage Thin Films and Molecularâ€Sieving Membranes (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11.1	1

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91	Synthesis, crystal structure, and properties of a perovskite-related bismuth phase, (NH4)3Bi2I9. APL Materials, 2016, 4, .	2.2	106
92	Resolving the Physical Origin of Octahedral Tilting in Halide Perovskites. Chemistry of Materials, 2016, 28, 4259-4266.	3.2	211
93	Transition metal coordination complexes of chrysazin. CrystEngComm, 2016, 18, 5121-5129.	1.3	7
94	Disorder and polymorphism in Cu(<scp>ii</scp>)-polyoxometalate complexes: [Cu_{1.5}(H₂O)_{7.5}PW₁₂O₄₀]Â·4.75H₂O, cis- & trans-[Cu₂(H₂O)₁₀SiW₁₂O₄₀]Â·6H₂O. CrystEngComm, 2016, 18, 5327-5332.	1.3	3
95	Tuneable mechanical and dynamical properties in the ferroelectric perovskite solid solution [NH₃NH₂]_{1â^'x}[NH₃OH]_xZn(HCOO)₃. Chemical Science, 2016, 7, 5108-5112.	3.7	33
96	MÃ¶ssbauer spectroscopy, magnetization, magnetic susceptibility, and low temperature heat capacity ofÎ±-Na₂NpO₄. Journal of Physics Condensed Matter, 2016, 28, 086002.	0.7	5
97	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.	6.4	284
98	Organised chaos: entropy in hybrid inorganicâ€“organic systems and other materials. Chemical Science, 2016, 7, 6316-6324.	3.7	62
99	Liquid exfoliation of alkyl-ether functionalised layered metalâ€“organic frameworks to nanosheets. Chemical Communications, 2016, 52, 10474-10477.	2.2	98
100	Exploring the properties of lead-free hybrid double perovskites using a combined computational-experimental approach. Journal of Materials Chemistry A, 2016, 4, 12025-12029.	5.2	250
101	Microscopic origin of entropy-driven polymorphism in hybrid organic-inorganic perovskite materials. Physical Review B, 2016, 94, .	1.1	48
102	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. Npj Quantum Materials, 2016, 1, .	1.8	103
103	Inâ€…Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metalâ€“Organic Frameworks. Angewandte Chemie, 2016, 128, 2052-2056.	1.6	15
104	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.	3.2	55
105	Melt-Quenched Glasses of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 3484-3492.	6.6	252
106	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.	1.9	21
107	Flexibility and disorder in metalâ€“organic frameworks. Dalton Transactions, 2016, 45, 4058-4059.	1.6	26
108	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. Journal of Materials Chemistry A, 2016, 4, 4280-4287.	5.2	35

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109	Defects and disorder in metal organic frameworks. Dalton Transactions, 2016, 45, 4113-4126.	1.6	159
110	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. Dalton Transactions, 2016, 45, 4258-4268.	1.6	34
111	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. Journal of Materials Chemistry A, 2016, 4, 270-279.	5.2	69
112	Mixed-linker solid solutions of functionalized pillared-layer MOFs â€“ adjusting structural flexibility, gas sorption, and thermal responsiveness. Dalton Transactions, 2016, 45, 4230-4241.	1.6	40
113	Coordination environments and Ï€-conjugation in dense lithium coordination polymers. CrystEngComm, 2016, 18, 398-406.	1.3	11
114	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.	1.7	26
115	Mechanical properties of organicâ€“inorganic halide perovskites, CH₃NH₃PbX₃ (X = I, Br and Cl), by nanoindentation. Journal of Materials Chemistry A, 2015, 3, 18450-18455.	5.2	197
116	Deep red emission in Eu²⁺-activated Sr₄(PO₄)₂O phosphors for blue-pumped white LEDs. Journal of Materials Chemistry C, 2015, 3, 7356-7362.	2.7	21
117	X-ray Diffraction, MÃ¶ssbauer Spectroscopy, Magnetic Susceptibility, and Specific Heat Investigations of Na₄NpO₅ and Na₅NpO₆. Inorganic Chemistry, 2015, 54, 4556-4564.	1.9	15
118	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIFâ€4. Angewandte Chemie - International Edition, 2015, 54, 6447-6451.	7.2	87
119	Insulator-to-Proton-Conductor Transition in a Dense Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 6428-6431.	6.6	83
120	A New Look at the Structural Properties of Trisodium Uranate Na₃UO₄. Inorganic Chemistry, 2015, 54, 3552-3561.	1.9	22
121	An extended Tolerance Factor approach for organicâ€“inorganic perovskites. Chemical Science, 2015, 6, 3430-3433.	3.7	587
122	Role of hydrogen-bonding and its interplay with octahedral tilting in CH₃NH₃PbI₃. Chemical Communications, 2015, 51, 6434-6437.	2.2	173
123	Hybrid glasses from strong and fragile metal-organic framework liquids. Nature Communications, 2015, 6, 8079.	5.8	242
124	Role of entropic effects in controlling the polymorphism in formate ABX₃ metalâ€“organic frameworks. Chemical Communications, 2015, 51, 15538-15541.	2.2	66
125	Mechanical Properties of a Calcium Dietary Supplement, Calcium Fumarate Trihydrate. Inorganic Chemistry, 2015, 54, 11186-11192.	1.9	14
126	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.	2.7	74

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127	Elastic properties and acoustic dissipation associated with a disorderâ€“order ferroelectric transition in a metalâ€“organic framework. CrystEngComm, 2015, 17, 370-374.	1.3	23
128	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. APL Materials, 2014, 2, .	2.2	76
129	Preface to Special Topic: Metal-organic framework materials. APL Materials, 2014, 2, 123801.	2.2	1
130	Topotactic reduction of oxide nanomaterials: unique structure and electronic properties of reduced TiO₂nanoparticles. Materials Horizons, 2014, 1, 106-110.	6.4	28
131	Phase Transitions in Zeolitic Imidazolate Framework 7: The Importance of Framework Flexibility and Guest-Induced Instability. Chemistry of Materials, 2014, 26, 1767-1769.	3.2	150
132	Pressureâ€Induced Bond Rearrangement and Reversible Phase Transformation in a Metalâ€“Organic Framework. Angewandte Chemie, 2014, 126, 5689-5692.	1.6	29
133	Amorphous Metalâ€“Organic Frameworks. Accounts of Chemical Research, 2014, 47, 1555-1562.	7.6	502
134	Mechanical Tunability via Hydrogen Bonding in Metalâ€“Organic Frameworks with the Perovskite Architecture. Journal of the American Chemical Society, 2014, 136, 7801-7804.	6.6	160
135	Cobalt adipate, Co(C₆H₈O₄): antiferromagnetic structure, unusual thermal expansion and magnetoelastic coupling. Materials Horizons, 2014, 1, 332-337.	6.4	21
136	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. Nature Communications, 2014, 5, 4813.	5.8	252
137	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.	2.7	51
138	Solid-state principles applied to organicâ€“inorganic perovskites: new tricks for an old dog. Chemical Science, 2014, 5, 4712-4715.	3.7	788
139	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals â€“ a nanoindentation study. Chemical Science, 2014, 5, 2392.	3.7	62
140	Ce³⁺-Activated Î³-Ca₂SiO₄ and Other Olivine-Type ABXO₄ Phosphors for Solid-State Lighting. Chemistry of Materials, 2014, 26, 3966-3975.	3.2	104
141	Research Update: Mechanical properties of metal-organic frameworks â€“ Influence of structure and chemical bonding. APL Materials, 2014, 2, 123902.	2.2	67
142	Hierarchical bicontinuous porosity in metalâ€“organic frameworks templated from functional block co-oligomer micelles. Chemical Science, 2013, 4, 3573.	3.7	124
143	Chiral, Racemic, and Meso-Lithium Tartrate Framework Polymorphs: A Detailed Structural Analysis. Crystal Growth and Design, 2013, 13, 3705-3715.	1.4	23
144	Coordination polymers of alkali metal trithiocyanurates: structure determinations and ionic conductivity measurements using single crystals. CrystEngComm, 2013, 15, 9400.	1.3	28

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145	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.	2.1	21
146	Dimethylammonium copper formate [(CH3)2NH2]Cu(HCOO)3: A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. Physical Review B, 2013, 87, .	1.1	62
147	Structural diversity and luminescent properties of lanthanide 2,2- and 2,3-dimethylsuccinate frameworks. CrystEngComm, 2013, 15, 100-110.	1.3	24
148	Carbon with hierarchical pores from carbonized metalâ€“organic frameworks for lithium sulphur batteries. Chemical Communications, 2013, 49, 2192.	2.2	354
149	Thermochemistry of Zeolitic Imidazolate Frameworks of Varying Porosity. Journal of the American Chemical Society, 2013, 135, 598-601.	6.6	112
150	Mechanical properties of a metalâ€“organic framework containing hydrogen-bonded bifluoride linkers. Chemical Communications, 2013, 49, 4471.	2.2	37
151	Coupling of the local defect and magnetic structure of wÃ¼stite Fe1â^'xO. Physical Review B, 2013, 88, .	1.1	9
152	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.	1.1	40
153	Structures and magnetic properties of Mn and Co inorganicâ€“organic frameworks with mixed linear dicarboxylate ligands. CrystEngComm, 2012, 14, 2711.	1.3	20
154	Bismuth 2,6-pyridinedicarboxylates: Assembly of molecular units into coordination polymers, CO2 sorption and photoluminescence. Dalton Transactions, 2012, 41, 4126.	1.6	60
155	Influence of ligand field stabilization energy on the elastic properties of multiferroic MOFs with the perovskite architecture. Dalton Transactions, 2012, 41, 3949.	1.6	79
156	Negative Linear Compressibility of a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 11940-11943.	6.6	251
157	Comparison of the relative stability of zinc and lithium-boron zeolitic imidazolate frameworks. CrystEngComm, 2012, 14, 374-378.	1.3	47
158	Preparation, magnetism and electronic structures of cadmium technetates. Journal of Materials Chemistry, 2011, 21, 1496-1502.	6.7	9
159	Understanding ligand-centred photoluminescence through flexibility and bonding of anthraquinone inorganicâ€“organic frameworks. Journal of Materials Chemistry, 2011, 21, 6595.	6.7	17
160	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.	1.4	39
161	Facile Mechanosynthesis of Amorphous Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2011, 133, 14546-14549.	6.6	184
162	Oxide phosphors for light upconversion; Yb3+ and Tm3+ co-doped Y2BaZnO5. Journal of Applied Physics, 2011, 109, .	1.1	54

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163	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
164	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.	3.7	19
165	Reversible pressure-induced amorphization of a zeolitic imidazolate framework (ZIF-4). Chemical Communications, 2011, 47, 7983.	2.2	192
166	Mechanical properties of hybrid inorganicâ€“organic framework materials: establishing fundamental structureâ€“property relationships. Chemical Society Reviews, 2011, 40, 1059.	18.7	637
167	Anionic Metalâ€“Organic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligandâ€Sensitized Photoluminescence. European Journal of Inorganic Chemistry, 2010, 2010, 3823-3828.	1.0	79
168	Synthesis, Structure and Magnetic Phase Transitions of the Manganese Succinate Hybrid Framework, Mn(C₄H₄O₄). Chemistry - A European Journal, 2010, 16, 7579-7585.	1.7	37
169	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.	1.7	119
170	Rapid Roomâ€Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. Angewandte Chemie - International Edition, 2010, 49, 9640-9643.	7.2	378
171	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.	3.3	450
172	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
173	Structure and Properties of an Amorphous Metal-Organic Framework. Physical Review Letters, 2010, 104, 115503.	2.9	246
174	Dimensionality Trends in Metalâ^'Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. Crystal Growth and Design, 2010, 10, 2041-2043.	1.4	92
175	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.	3.2	63
176	Neutron diffraction study of the magnetic structures of manganese succinate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Mn</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mtext>A complex inorganic-organic framework. Physical Review B, 2010, 82, .	1.1	18
177	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.	7.2	444
178	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.	1.4	42
179	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. CrystEngComm, 2009, 11, 2272.	1.3	217
180	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

#	Article	IF	Citations
181	The role of static disorder in negative thermal expansion in ReO3. Journal of Applied Physics, 2009, 105, .	1.1	49
182	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.	6.6	736
183	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.	6.6	78
184	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.	7.2	37
185	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.	6.6	444
186	Modeling the Hydrogen Storage Materials with Exposed M2+ Coordination Sites. Journal of Physical Chemistry C, 2008, 112, 16171-16173.	1.5	17
187	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. Chemistry of Materials, 2008, 20, 6396-6404.	3.2	78
188	There's Room in the Middle. Science, 2007, 318, 58-59.	6.0	337
189	Chemical and Structural Diversity in Chiral Magnesium Tartrates and their Racemic and Meso Analogues. Crystal Growth and Design, 2007, 7, 1522-1532.	1.4	59
190	Thermodynamic and kinetic factors in the hydrothermal synthesis of hybrid frameworks: zinc 4-cyclohexene-1,2-dicarboxylates. Chemical Communications, 2006, , 2687.	2.2	52
191	Structural diversity and chemical trends in hybrid inorganicâ€“organic framework materials. Chemical Communications, 2006, , 4780-4795.	2.2	1,005
192	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.	7.2	286
193	Epitaxial growth and properties of metastable BiMnO3 thin films. Applied Physics Letters, 2004, 84, 91-93.	1.5	90
194	The role of temperature in the synthesis of hybrid inorganicâ€“organic materials: the example of cobalt succinates. Chemical Communications, 2004, , 368-369.	2.2	382
195	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.	3.2	94
196	Theoretical Calculations on Silica Frameworks and Their Correlation with Experiment. Chemistry of Materials, 1994, 6, 1647-1650.	3.2	166
197	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.	1.9	42
198	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.	6.6	107

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199	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.	6.6	30
200	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
201	Crystal structures of mixed-valency and mixed-metal salts A2MIII0.5SbV0.5X6 (A = Rb, Cs; M = Sb, Bi, In,) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	41
202	Anion ordering in mixed valence dicesium hexachloroantimonate (Cs2SbCl6) and related salts. Journal of the American Chemical Society, 1983, 105, 3366-3368.	6.6	25