

Anthony K Cheetham

List of Publications by Year in Descending Order

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

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	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
189	Lattice Dynamics in the NASICON NaZr(PO) Solid Electrolyte from Temperature-Dependent Neutron Diffraction, NMR, and Ab Initio Computational Studies.. <i>Chemistry of Materials</i> , 2022 , 34, 4029-4038	8.6	0
188	Phase stability and sodium-vacancy orderings in a NaSICON electrode. <i>Journal of Materials Chemistry A</i> , 2021 , 10, 209-217	13	4
187	Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. <i>Science</i> , 2021 , 374, 621-625	33.3	29
186	Why are Double Perovskite Iodides so Rare?. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11756-11764	3.8	7
185	Layered Double Perovskites. <i>Annual Review of Materials Research</i> , 2021 , 51, 351-380	12.8	7
184	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO2 adsorption. <i>Chemical Engineering Journal</i> , 2021 , 403, 126333	14.7	31
183	Chemical Control of Spin-Orbit Coupling and Charge Transfer in Vacancy-Ordered Ruthenium(IV) Halide Perovskites. <i>Angewandte Chemie</i> , 2021 , 133, 5244-5248	3.6	
182	A chemical map of NaSICON electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 281-292	13	38
181	Chemical Control of Spin-Orbit Coupling and Charge Transfer in Vacancy-Ordered Ruthenium(IV) Halide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5184-5188	16.4	5
180	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 4-18	9.6	47
179	Guest-mediated phase transitions in a flexible pillared-layered metal-organic framework under high-pressure. <i>Chemical Science</i> , 2021 , 12, 13793-13801	9.4	1
178	Direct Pyrolysis of a Manganese-Triazolate Metal-Organic Framework into Air-Stable Manganese Nitride Nanoparticles. <i>Advanced Science</i> , 2021 , 8, 2003212	13.6	3
177	Tribute to D. D. Sarma. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19049-19052	3.8	
176	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19434-19449	16.4	30
175	Intermarriage of Halide Perovskites and Metal-Organic Framework Crystals. <i>Angewandte Chemie</i> , 2020 , 132, 19602-19617	3.6	4
174	Phase boundary engineering of metal-organic-framework-derived carbonaceous nickel selenides for sodium-ion batteries. <i>Nano Research</i> , 2020 , 13, 2289-2298	10	27

173	Perovskite-related ReO ₃ -type structures. <i>Nature Reviews Materials</i> , 2020 , 5, 196-213	73.3	33
172	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8974-8981	16.4	10
171	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. <i>Inorganic Chemistry</i> , 2020 , 59, 3377-3386	5.1	4
170	Tunable Luminescence in Hybrid Cu(I) and Ag(I) Iodides. <i>Inorganic Chemistry</i> , 2020 , 59, 15487-15494	5.1	3
169	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13582-13589	16.4	59
168	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. <i>Nature Communications</i> , 2020 , 11, 3917	17.4	21
167	Phase Behavior in Rhombohedral NaSiCON Electrolytes and Electrodes. <i>Chemistry of Materials</i> , 2020 , 32, 7908-7920	9.6	21
166	Structural Diversity and Magnetic Properties of Hybrid Ruthenium Halide Perovskites and Related Compounds. <i>Angewandte Chemie</i> , 2020 , 132, 9059-9066	3.6	8
165	The capricious nature of iodine catenation in I excess, perovskite-derived hybrid Pt(IV) compounds. <i>Chemical Communications</i> , 2019 , 55, 588-591	5.8	11
164	Micro-/Mesoporous Materials: Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating (Adv. Mater. 25/2019). <i>Advanced Materials</i> , 2019 , 31, 1970182	24	
163	3D-Printing of Pure Metal-Organic Framework Monoliths 2019 , 1, 147-153		44
162	Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating. <i>Advanced Materials</i> , 2019 , 31, e1901124	24	12
161	Ab initio computation for solid-state P NMR of inorganic phosphates: revisiting X-ray structures. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10070-10074	3.6	9
160	Identifying the best metal-organic frameworks and unravelling different mechanisms for the separation of pentane isomers. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 609-615	4.6	7
159	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. <i>Nature Communications</i> , 2019 , 10, 1340	17.4	59
158	Enhanced visible light absorption for lead-free double perovskite CsAgSbBr. <i>Chemical Communications</i> , 2019 , 55, 3721-3724	5.8	65
157	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	21.8	143
156	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19099-19109	16.4	85

155	Insights into the electronic structure of OsO ₂ using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
154	Polymorphism in M(HPO) (M = V, Al, Ga) compounds with the perovskite-related ReO structure. <i>Chemical Communications</i> , 2019 , 55, 2964-2967	5.8	10
153	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	9.5	20
152	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	16.4	62
151	Thermodynamic and Kinetic Effects in the Crystallization of Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2018 , 51, 659-667	24.3	83
150	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. <i>Chemical Science</i> , 2018 , 9, 1654-1660	9.4	41
149	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. <i>Chemical Communications</i> , 2018 , 54, 5268-5288	5.8	177
148	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. <i>Chemical Communications</i> , 2018 , 54, 3751-3754	5.8	40
147	Hydrogen Bonding Controls the Structural Evolution in Perovskite-Related Hybrid Platinum(IV) Iodides. <i>Inorganic Chemistry</i> , 2018 , 57, 10375-10382	5.1	31
146	Janus Membranes: Creating Asymmetry for Energy Efficiency. <i>Advanced Materials</i> , 2018 , 30, e1801495	24	135
145	Mixed X-Site Formate-Hypophosphite Hybrid Perovskites. <i>Chemistry - A European Journal</i> , 2018 , 24, 11309-11313	24.8	13
144	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	7.1	12
143	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	7.1	26
142	Janus Membrane: Janus Membranes: Creating Asymmetry for Energy Efficiency (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870328	24	5
141	Octahedral connectivity and its role in determining the phase stabilities and electronic structures of low-dimensional, perovskite-related iodoplumbates. <i>APL Materials</i> , 2018 , 6, 114202	5.7	15
140	Fundamental Carrier Lifetime Exceeding 1 μ s in Cs ₂ AgBiBr ₆ Double Perovskite. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800464	4.6	114
139	An Unusual Phase Transition Driven by Vibrational Entropy Changes in a Hybrid Organic-Inorganic Perovskite. <i>Angewandte Chemie</i> , 2018 , 130, 9070-9074	3.6	4
138	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	16.4	30

137	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	10.8	183
136	Synthesis and Properties of a Lead-Free Hybrid Double Perovskite: (CH ₃ NH ₃) ₂ AgBiBr ₆ . <i>Chemistry of Materials</i> , 2017 , 29, 1089-1094	9.6	217
135	Chemically diverse and multifunctional hybrid organic/inorganic perovskites. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	608
134	A New Look at the Structural and Magnetic Properties of Potassium Neptunate KNpO Combining XRD, XANES Spectroscopy, and Low-Temperature Heat Capacity. <i>Inorganic Chemistry</i> , 2017 , 56, 5839-5850	5.1	4
133	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	5.8	31
132	Hidden negative linear compressibility in lithium l-tartrate. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3544-3549	3.6	16
131	[Am]Mn(HPOO): A New Family of Hybrid Perovskites Based on the Hypophosphite Ligand. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16999-17002	16.4	59
130	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3683-3683	8.3	
129	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: (CHNH)KGdCl and (CHNH)KYCl. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5015-5020	6.4	45
128	High-Throughput Computational Screening of Metal/Organic Frameworks for Thiol Capture. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22208-22215	3.8	25
127	Understanding of Electrochemical Mechanisms for CO Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). <i>ACS Nano</i> , 2017 , 11, 10825-10833	16.7	236
126	How Strong Is the Hydrogen Bond in Hybrid Perovskites?. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 6154-6159	6.4	110
125	Factors Influencing the Mechanical Properties of Formamidinium Lead Halides and Related Hybrid Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3740-3745	8.3	55
124	Functional conductive nanomaterials polymerisation in nano-channels: PEDOT in a MOF. <i>Materials Horizons</i> , 2017 , 4, 64-71	14.4	48
123	Oriented Two-Dimensional Porous Organic Cage Crystals. <i>Angewandte Chemie</i> , 2017 , 129, 9519-9523	3.6	8
122	Oriented Two-Dimensional Porous Organic Cage Crystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9391-9395	16.4	23
121	Coordination environments and E-conjugation in dense lithium coordination polymers. <i>CrystEngComm</i> , 2016 , 18, 398-406	3.3	11
120	Interplay between defects, disorder and flexibility in metal-organic frameworks. <i>Nature Chemistry</i> , 2016 , 9, 11-16	17.6	256

119	Structure prediction: Encoding evolution of porous solids. <i>Nature Chemistry</i> , 2016 , 9, 6-8	17.6	6
118	Organised chaos: entropy in hybrid inorganic-organic systems and other materials. <i>Chemical Science</i> , 2016 , 7, 6316-6324	9.4	49
117	Liquid exfoliation of alkyl-ether functionalised layered metal-organic frameworks to nanosheets. <i>Chemical Communications</i> , 2016 , 52, 10474-7	5.8	78
116	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	13	176
115	Microscopic origin of entropy-driven polymorphism in hybrid organic-inorganic perovskite materials. <i>Physical Review B</i> , 2016 , 94,	3.3	39
114	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. <i>Npj Quantum Materials</i> , 2016 , 1,	5	84
113	In Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2016 , 128, 2052-2056	3.6	14
112	Role of Amine-Cavity Interactions in Determining the Structure and Mechanical Properties of the Ferroelectric Hybrid Perovskite [NH ₃ NH ₂] ₂ Zn(HCOO) ₃ . <i>Chemistry of Materials</i> , 2016 , 28, 312-317	9.6	52
111	Melt-Quenched Glasses of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3484-92	16.4	161
110	Structural Properties and Charge Distribution of the Sodium Uranium, Neptunium, and Plutonium Ternary Oxides: A Combined X-ray Diffraction and XANES Study. <i>Inorganic Chemistry</i> , 2016 , 55, 1569-79	5.1	20
109	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	13	30
108	Defects and disorder in metal organic frameworks. <i>Dalton Transactions</i> , 2016 , 45, 4113-26	4.3	125
107	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. <i>Dalton Transactions</i> , 2016 , 45, 4258-68	4.3	28
106	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 270-279	13	57
105	Mixed-linker solid solutions of functionalized pillared-layer MOFs - adjusting structural flexibility, gas sorption, and thermal responsiveness. <i>Dalton Transactions</i> , 2016 , 45, 4230-41	4.3	29
104	Porous Organic Cage Thin Films and Molecular-Sieving Membranes. <i>Advanced Materials</i> , 2016 , 28, 2629-37	37	209
103	In Situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2012-6	16.4	47
102	Molecular Sieves: Porous Organic Cage Thin Films and Molecular-Sieving Membranes (Adv. Mater. 13/2016). <i>Advanced Materials</i> , 2016 , 28, 2652-2652	24	

101	Synthesis, crystal structure, and properties of a perovskite-related bismuth phase, (NH ₄) ₃ Bi ₂ I ₉ . <i>APL Materials</i> , 2016 , 4, 031101	5.7	91
100	Resolving the Physical Origin of Octahedral Tilting in Halide Perovskites. <i>Chemistry of Materials</i> , 2016 , 28, 4259-4266	9.6	163
99	Transition metal coordination complexes of chrysazin. <i>CrystEngComm</i> , 2016 , 18, 5121-5129	3.3	4
98	Disorder and polymorphism in Cu(II)-polyoxometalate complexes: [Cu _{1.5} (H ₂ O) _{7.5} PW ₁₂ O ₄₀] ₄ ·7.5H ₂ O, cis- & trans-[Cu ₂ (H ₂ O) ₁₀ SiW ₁₂ O ₄₀] ₆ ·H ₂ O. <i>CrystEngComm</i> , 2016 , 18, 5327-5332	3.3	3
97	Tuneable mechanical and dynamical properties in the ferroelectric perovskite solid solution [NHNH] [NHOH] Zn(HCOO). <i>Chemical Science</i> , 2016 , 7, 5108-5112	9.4	31
96	Mössbauer spectroscopy, magnetization, magnetic susceptibility, and low temperature heat capacity of Na ₄ NpO ₅ . <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 086002	1.8	3
95	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	14.4	221
94	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	13	139
93	Deep red emission in Eu ²⁺ -activated Sr ₄ (PO ₄) ₂ O phosphors for blue-pumped white LEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7356-7362	7.1	16
92	X-ray Diffraction, Mössbauer Spectroscopy, Magnetic Susceptibility, and Specific Heat Investigations of Na ₄ NpO ₅ and Na ₅ NpO ₆ . <i>Inorganic Chemistry</i> , 2015 , 54, 4556-64	5.1	12
91	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6447-51	16.4	66
90	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIF-4. <i>Angewandte Chemie</i> , 2015 , 127, 6547-6551	3.6	20
89	Insulator-to-Proton-Conductor Transition in a Dense Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6428-31	16.4	61
88	A new look at the structural properties of trisodium uranate Na ₃ UO ₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 3552-61	5.1	20
87	An extended Tolerance Factor approach for organic-inorganic perovskites. <i>Chemical Science</i> , 2015 , 6, 3430-3433	9.4	439
86	Role of hydrogen-bonding and its interplay with octahedral tilting in CH ₃ NH ₃ PbI ₃ . <i>Chemical Communications</i> , 2015 , 51, 6434-7	5.8	146
85	Hybrid glasses from strong and fragile metal-organic framework liquids. <i>Nature Communications</i> , 2015 , 6, 8079	17.4	164
84	Role of entropic effects in controlling the polymorphism in formate ABX ₃ metal-organic frameworks. <i>Chemical Communications</i> , 2015 , 51, 15538-41	5.8	59

83	Mechanical Properties of a Calcium Dietary Supplement, Calcium Fumarate Trihydrate. <i>Inorganic Chemistry</i> , 2015 , 54, 11186-92	5.1	12
82	Synthesis, structure and optical properties of cerium-doped calcium barium phosphate $\bar{\Gamma}$ novel blue-green phosphor for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 204-210	7.1	70
81	Elastic properties and acoustic dissipation associated with a disorder $\bar{\Gamma}$ order ferroelectric transition in a metal $\bar{\Gamma}$ organic framework. <i>CrystEngComm</i> , 2015 , 17, 370-374	3.3	21
80	Manganese Tetraboride, MnB ₄ : High-Temperature Crystal Structure, p-n Transition, (55)Mn NMR Spectroscopy, Solid Solutions, and Mechanical Properties. <i>Chemistry - A European Journal</i> , 2015 , 21, 8177-81	4.8	19
79	Topotactic reduction of oxide nanomaterials: unique structure and electronic properties of reduced TiO ₂ nanoparticles. <i>Materials Horizons</i> , 2014 , 1, 106-110	14.4	22
78	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	9.6	109
77	Pressure-Induced Bond Rearrangement and Reversible Phase Transformation in a Metal $\bar{\Gamma}$ Organic Framework. <i>Angewandte Chemie</i> , 2014 , 126, 5689-5692	3.6	24
76	Amorphous metal-organic frameworks. <i>Accounts of Chemical Research</i> , 2014 , 47, 1555-62	24.3	357
75	Mechanical tunability via hydrogen bonding in metal-organic frameworks with the perovskite architecture. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7801-4	16.4	146
74	Cobalt adipate, Co(C ₆ H ₈ O ₄): antiferromagnetic structure, unusual thermal expansion and magnetoelastic coupling. <i>Materials Horizons</i> , 2014 , 1, 332-337	14.4	20
73	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. <i>Nature Communications</i> , 2014 , 5, 4813	17.4	199
72	Synthesis, structure and optical properties of europium doped calcium barium phosphate $\bar{\Gamma}$ novel phosphor for solid-state lighting. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6084	7.1	42
71	Solid-state principles applied to organic $\bar{\Gamma}$ inorganic perovskites: new tricks for an old dog. <i>Chemical Science</i> , 2014 , 5, 4712-4715	9.4	610
70	Guest-dependent mechanical anisotropy in pillared-layered soft porous crystals $\bar{\Gamma}$ nanoindentation study. <i>Chemical Science</i> , 2014 , 5, 2392	9.4	52
69	Ce ³⁺ -Activated $\bar{\Gamma}$ Ca ₂ SiO ₄ and Other Olivine-Type ABXO ₄ Phosphors for Solid-State Lighting. <i>Chemistry of Materials</i> , 2014 , 26, 3966-3975	9.6	92
68	Research Update: Mechanical properties of metal-organic frameworks $\bar{\Gamma}$ Influence of structure and chemical bonding. <i>APL Materials</i> , 2014 , 2, 123902	5.7	53
67	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. <i>APL Materials</i> , 2014 , 2, 124109	5.7	66
66	Preface to Special Topic: Metal-organic framework materials. <i>APL Materials</i> , 2014 , 2, 123801	5.7	1

65	Hierarchical bicontinuous porosity in metal-organic frameworks templated from functional block co-oligomer micelles. <i>Chemical Science</i> , 2013 , 4, 3573	9.4	113
64	Chiral, Racemic, and Meso-Lithium Tartrate Framework Polymorphs: A Detailed Structural Analysis. <i>Crystal Growth and Design</i> , 2013 , 13, 3705-3715	3.5	23
63	Coordination polymers of alkali metal trithiocyanurates: structure determinations and ionic conductivity measurements using single crystals. <i>CrystEngComm</i> , 2013 , 15, 9400	3.3	23
62	Stacking Faults and Mechanical Behavior beyond the Elastic Limit of an Imidazole-Based Metal Organic Framework: ZIF-8. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3377-81	6.4	19
61	Dimethylammonium copper formate [(CH ₃) ₂ NH ₂] ₂ Cu(HCOO) ₃ : A metal-organic framework with quasi-one-dimensional antiferromagnetism and magnetostriction. <i>Physical Review B</i> , 2013 , 87,	3.3	54
60	Structural diversity and luminescent properties of lanthanide 2,2- and 2,3-dimethylsuccinate frameworks. <i>CrystEngComm</i> , 2013 , 15, 100-110	3.3	23
59	Carbon with hierarchical pores from carbonized metal-organic frameworks for lithium sulphur batteries. <i>Chemical Communications</i> , 2013 , 49, 2192-4	5.8	321
58	Thermochemistry of zeolitic imidazolate frameworks of varying porosity. <i>Journal of the American Chemical Society</i> , 2013 , 135, 598-601	16.4	97
57	Mechanical properties of a metal-organic framework containing hydrogen-bonded bifluoride linkers. <i>Chemical Communications</i> , 2013 , 49, 4471-3	5.8	34
56	Coupling of the local defect and magnetic structure of wüstite Fe _{1-x} O. <i>Physical Review B</i> , 2013 , 88,	3.3	8
55	Ligand-Directed Control over Crystal Structures of Inorganic-Organic Frameworks and Formation of Solid Solutions. <i>Angewandte Chemie</i> , 2013 , 125, 5654-5657	3.6	11
54	Structures and magnetic properties of Mn and Co inorganic-organic frameworks with mixed linear dicarboxylate ligands. <i>CrystEngComm</i> , 2012 , 14, 2711	3.3	20
53	Bismuth 2,6-pyridinedicarboxylates: assembly of molecular units into coordination polymers, CO ₂ sorption and photoluminescence. <i>Dalton Transactions</i> , 2012 , 41, 4126-34	4.3	54
52	Influence of ligand field stabilization energy on the elastic properties of multiferroic MOFs with the perovskite architecture. <i>Dalton Transactions</i> , 2012 , 41, 3949-52	4.3	69
51	Negative linear compressibility of a metal-organic framework. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11940-3	16.4	216
50	Comparison of the relative stability of zinc and lithium-boron zeolitic imidazolate frameworks. <i>CrystEngComm</i> , 2012 , 14, 374-378	3.3	43
49	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	39
48	Facile mechanosynthesis of amorphous zeolitic imidazolate frameworks. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14546-9	16.4	155

47	Oxide phosphors for light upconversion; Yb ³⁺ and Tm ³⁺ co-doped Y ₂ BaZnO ₅ . <i>Journal of Applied Physics</i> , 2011 , 109, 063104	2.5	52
46	Efficient oxide phosphors for light upconversion; green emission from Yb ³⁺ and Ho ³⁺ co-doped Ln ₂ BaZnO ₅ (Ln = Y, Gd). <i>Journal of Materials Chemistry</i> , 2011 , 21, 1387-1394		90
45	Evolution of the structures and magnetic properties of the manganese dicarboxylates, Mn ₂ (CO ₂ (CH ₂) _n CO ₂)(OH) ₂ and Mn ₄ (CO ₂ (CH ₂) _n CO ₂) ₃ (OH) ₂ . <i>Chemical Science</i> , 2011 , 2, 1929	9.4	19
44	Reversible pressure-induced amorphization of a zeolitic imidazolate framework (ZIF-4). <i>Chemical Communications</i> , 2011 , 47, 7983-5	5.8	152
43	Mechanical properties of hybrid inorganic-organic framework materials: establishing fundamental structure-property relationships. <i>Chemical Society Reviews</i> , 2011 , 40, 1059-80	58.5	533
42	Thermal Amorphization of Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie</i> , 2011 , 123, 3123-3127	3.6	28
41	Electric Control of Magnetization and Interplay between Orbital Ordering and Ferroelectricity in a Multiferroic Metal-Organic Framework. <i>Angewandte Chemie</i> , 2011 , 123, 5969-5972	3.6	50
40	Preparation, magnetism and electronic structures of cadmium technetates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1496-1502		8
39	Understanding ligand-centred photoluminescence through flexibility and bonding of anthraquinone inorganic-organic frameworks. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6595		14
38	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	3.5	39
37	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, 9938-43	11.5	362
36	Oxide phosphors for efficient light upconversion: Yb ³⁺ and Er ³⁺ co-doped Ln ₂ BaZnO ₅ (Ln = Y, Gd). <i>Journal of Materials Chemistry</i> , 2010 , 20, 3989		98
35	Structure and properties of an amorphous metal-organic framework. <i>Physical Review Letters</i> , 2010 , 104, 115503	7.4	198
34	Dimensionality Trends in Metal-Organic Frameworks Containing Perfluorinated or Nonfluorinated Benzenedicarboxylates. <i>Crystal Growth and Design</i> , 2010 , 10, 2041-2043	3.5	85
33	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	9.6	62
32	Neutron diffraction study of the magnetic structures of manganese succinate Mn(C ₄ H ₄ O ₄): A complex inorganic-organic framework. <i>Physical Review B</i> , 2010 , 82,	3.3	16
31	Anionic Metal-Organic Frameworks of Bismuth Benzenedicarboxylates: Synthesis, Structure and Ligand-Sensitized Photoluminescence. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3823-3828	2.3	71
30	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, 7579-85	4.8	35

29	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 . <i>Chemistry - A European Journal</i> , 2010 , 16, 10684-90	4.8	105
28	Rapid Room-Temperature Synthesis of Zeolitic Imidazolate Frameworks by Using Mechanochemistry. <i>Angewandte Chemie</i> , 2010 , 122, 9834-9837	3.6	73
27	Rapid room-temperature synthesis of zeolitic imidazolate frameworks by using mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9640-3	16.4	312
26	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, 7087-9	16.4	363
25	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	3.5	41
24	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. <i>CrystEngComm</i> , 2009 , 11, 2272	3.3	181
23	Enhanced H ₂ adsorption enthalpy in the low-surface area, partially fluorinated coordination polymer Zn ₅ (triazole) ₆ (tetrafluoroterephthalate) ₂ (H ₂ O) ₂ ·4H ₂ O. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4307		77
22	The role of static disorder in negative thermal expansion in ReO ₃ . <i>Journal of Applied Physics</i> , 2009 , 105, 114901	2.5	42
21	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, 13625-7	16.4	653
20	Phase selection and energetics in chiral alkaline Earth tartrates and their racemic and meso analogues: synthetic, structural, computational, and calorimetric studies. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15375-86	16.4	75
19	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, 10450-1	16.4	389
18	Modeling the Hydrogen Storage Materials with Exposed M ²⁺ Coordination Sites. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16171-16173	3.8	17
17	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. <i>Chemistry of Materials</i> , 2008 , 20, 6396-6404	9.6	71
16	Comparison of chiral and racemic forms of zinc cyclohexane trans-1,2-dicarboxylate frameworks: a structural, computational, and calorimetric study. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8634-7	16.4	35
15	Chemical and Structural Diversity in Chiral Magnesium Tartrates and their Racemic and Meso Analogues. <i>Crystal Growth and Design</i> , 2007 , 7, 1522-1532	3.5	58
14	Materials science. There's room in the middle. <i>Science</i> , 2007 , 318, 58-9	33.3	317
13	Thermodynamic and kinetic factors in the hydrothermal synthesis of hybrid frameworks: zinc 4-cyclohexene-1,2-dicarboxylates. <i>Chemical Communications</i> , 2006 , 2687-9	5.8	50
12	Structural diversity and chemical trends in hybrid inorganic-organic framework materials. <i>Chemical Communications</i> , 2006 , 4780-95	5.8	945

11	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, 7608-11	16.4	264
10	Epitaxial growth and properties of metastable BiMnO ₃ thin films. <i>Applied Physics Letters</i> , 2004 , 84, 91-93	3.4	89
9	The role of temperature in the synthesis of hybrid inorganic-organic materials: the example of cobalt succinates. <i>Chemical Communications</i> , 2004 , 368-9	5.8	369
8	Structure and Magnetism of VSB-2, -3, and -4 or Ni ₄ (O ₃ P-(CH ₂)-PO ₃) ₂ [(H ₂ O) _n (n= 3, 2, 0), the First Ferromagnetic Nickel(II) Diphosphonates: Increase of Dimensionality and Multiple Coordination Changes during a Quasi Topotactic Dehydration. <i>Chemistry of Materials</i> , 1999 , 11, 2937-2947	9.6	84
7	Theoretical Calculations on Silica Frameworks and Their Correlation with Experiment. <i>Chemistry of Materials</i> , 1994 , 6, 1647-1650	9.6	144
6	Processing and Characterization of Thin Films of the Two-Layer Superconducting Phase in the Bi-Sr-Ca-Cu-O System: Evidence for Solid Solution. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 123-129	3.8	35
5	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	16.4	93
4	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	16.4	29
3	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		128
2	Crystal structures of mixed-valency and mixed-metal salts A ₂ MIII _{0.5} SbV _{0.5} X ₆ (A = Rb, Cs; M = Sb, Bi, In, Tl, Fe, Rh; X = Cl, Br). A powder neutron diffraction study. <i>Inorganic Chemistry</i> , 1985 , 24, 545-552	5.1	32
1	Anion ordering in mixed valence dicesium hexachloroantimonate (Cs ₂ SbCl ₆) and related salts. <i>Journal of the American Chemical Society</i> , 1983 , 105, 3366-3368	16.4	22