

# Karena W Chapman

## List of Publications by Year in descending order

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131  
papers

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docs citations

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times ranked

17798  
citing authors

#	ARTICLE	IF	CITATIONS
1	A mixing-flow reactor for time-resolved reaction measurements distributed in space. <i>Journal of Applied Crystallography</i> , 2022, 55, 258-264.	1.9	5
2	Relative Kinetics of Solid-State Reactions: The Role of Architecture in Controlling Reactivity. <i>Journal of the American Chemical Society</i> , 2022, 144, 11975-11979.	6.6	10
3	A multimodal analytical toolkit to resolve correlated reaction pathways: the case of nanoparticle formation in zeolites. <i>Chemical Science</i> , 2021, 12, 13836-13847.	3.7	5
4	Experimental considerations to study Li-excess disordered rock salt cathode materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1720-1732.	5.2	19
5	Nanostructure Transformation as a Signature of Oxygen Redox in Li-Rich 3d and 4d Cathodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 5763-5770.	6.6	29
6	Validation of non-negative matrix factorization for rapid assessment of large sets of atomic pair distribution function data. <i>Journal of Applied Crystallography</i> , 2021, 54, 768-775.	1.9	20
7	Resolving Single-layer Nanosheets as Short-lived Intermediates in the Solution Synthesis of FeS. , 2021, 3, 698-703.		14
8	Mechanistic Insights into Nanoparticle Formation from Bimetallic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 8976-8980.	6.6	22
9	Influence of Al location on formation of silver clusters in mordenite. <i>Microporous and Mesoporous Materials</i> , 2021, 327, 111401.	2.2	0
10	Homologous Structural, Chemical, and Biological Behavior of Sc and Lu Complexes of the Picaga Bifunctional Chelator: Toward Development of Matched Theranostic Pairs for Radiopharmaceutical Applications. <i>Bioconjugate Chemistry</i> , 2021, 32, 1232-1241.	1.8	19
11	The Molecular Path Approaching the Active Site in Catalytic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 20090-20094.	6.6	21
12	Best practices for <i>operando</i> depth-resolving battery experiments. <i>Journal of Applied Crystallography</i> , 2020, 53, 133-139.	1.9	8
13	Defect-Accommodating Intermediates Yield Selective Low-Temperature Synthesis of $\text{YMnO}_3$ Polymorphs. <i>Inorganic Chemistry</i> , 2020, 59, 13639-13650.	1.9	22
14	Intrinsic Kinetic Limitations in Substituted Lithium-Layered Transition-Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 7001-7011.	6.6	69
15	Energetics and Structure of Ag-Water Clusters Formed in Mordenite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4517-4524.	1.5	9
16	A thermal-gradient approach to variable-temperature measurements resolved in space. <i>Journal of Applied Crystallography</i> , 2020, 53, 662-670.	1.9	19
17	Reversible MOF-Based Sensors for the Electrical Detection of Iodine Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27982-27988.	4.0	52
18	Revisiting the charge compensation mechanisms in $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ systems. <i>Materials Horizons</i> , 2019, 6, 2112-2123.	6.4	62

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19	A high-performance solid-state synthesized LiVOPO <sub>4</sub> for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2019, 105, 106491.	2.3	26
20	Quantifying Reaction and Rate Heterogeneity in Battery Electrodes in 3D through Operando X-ray Diffraction Computed Tomography. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18386-18394.	4.0	44
21	Rational synthesis and electrochemical performance of LiVOPO <sub>4</sub> polymorphs. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8423-8432.	5.2	20
22	Nanocrystals in Molten Salts and Ionic Liquids: Experimental Observation of Ionic Correlations Extending beyond the Debye Length. <i>ACS Nano</i> , 2019, 13, 5760-5770.	7.3	48
23	Structural evolution in a melt-quenched zeolitic imidazolate framework glass during heat-treatment. <i>Chemical Communications</i> , 2019, 55, 2521-2524.	2.2	21
24	Porosity Dependence of Compression and Lattice Rigidity in Metal-Organic Framework Series. <i>Journal of the American Chemical Society</i> , 2019, 141, 4365-4371.	6.6	51
25	Multivalent Electrochemistry of Spinel Mg <sub>x</sub> Mn <sub>3</sub> O <sub>4</sub> Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 1496-1504.	3.2	23
26	Identifying the chemical and structural irreversibility in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> – a model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4189-4198.	5.2	48
27	Atomic Structure of 2 nm Size Metallic Cobalt Prepared by Electrochemical Conversion: An in Situ Pair Distribution Function Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23861-23866.	1.5	14
28	Adsorptive removal of Sb(V) from water using a mesoporous Zr-based metal-organic framework. <i>Polyhedron</i> , 2018, 151, 338-343.	1.0	43
29	Iodine Gas Adsorption in Nanoporous Materials: A Combined Experiment-Modeling Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 2331-2338.	1.8	72
30	Accommodating High Transformation Strains in Battery Electrodes via the Formation of Nanoscale Intermediate Phases: Operando Investigation of Olivine NaFePO <sub>4</sub> . <i>Nano Letters</i> , 2017, 17, 1696-1702.	4.5	49
31	A Reversible Phase Transition for Sodium Insertion in Anatase TiO <sub>2</sub> . <i>Chemistry of Materials</i> , 2017, 29, 1836-1844.	3.2	68
32	Investigating Sodium Storage Mechanisms in Tin Anodes: A Combined Pair Distribution Function Analysis, Density Functional Theory, and Solid-State NMR Approach. <i>Journal of the American Chemical Society</i> , 2017, 139, 7273-7286.	6.6	121
33	Addressing the characterisation challenge to understand catalysis in MOFs: the case of nanoscale Cu supported in NU-1000. <i>Faraday Discussions</i> , 2017, 201, 337-350.	1.6	66
34	Adsorption of a Catalytically Accessible Polyoxometalate in a Mesoporous Channel-type Metal-Organic Framework. <i>Chemistry of Materials</i> , 2017, 29, 5174-5181.	3.2	143
35	Intergranular Cracking as a Major Cause of Long-Term Capacity Fading of Layered Cathodes. <i>Nano Letters</i> , 2017, 17, 3452-3457.	4.5	361
36	Multifunctional, Tunable Metal-Organic Framework Materials Platform for Bioimaging Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22268-22277.	4.0	122

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37	Liquid metal-organic frameworks. <i>Nature Materials</i> , 2017, 16, 1149-1154.	13.3	326
38	Reversible magnesium and aluminium ions insertion in cation-deficient anatase TiO <sub>2</sub> . <i>Nature Materials</i> , 2017, 16, 1142-1148.	13.3	366
39	Layered Lepidocrocite Type Structure Isolated by Revisiting the Sol-Gel Chemistry of Anatase TiO <sub>2</sub> : A New Anode Material for Batteries. <i>Chemistry of Materials</i> , 2017, 29, 8313-8324.	3.2	33
40	Lithiation Thermodynamics and Kinetics of the TiO <sub>2</sub> (B) Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 13330-13341.	6.6	45
41	Reaction Heterogeneity in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Induced by Surface Layer. <i>Chemistry of Materials</i> , 2017, 29, 7345-7352.	3.2	142
42	Bridging Zirconia Nodes within a Metal-Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. <i>Journal of the American Chemical Society</i> , 2017, 139, 10410-10418.	6.6	74
43	Emerging operando and x-ray pair distribution function methods for energy materials development. <i>MRS Bulletin</i> , 2016, 41, 231-240.	1.7	42
44	Structural Transitions of the Metal-Oxide Nodes within Metal-Organic Frameworks: On the Local Structures of NU-1000 and UiO-66. <i>Journal of the American Chemical Society</i> , 2016, 138, 4178-4185.	6.6	108
45	Selective O <sub>2</sub> Sorption at Ambient Temperatures via Node Distortions in Sc-MIL-100. <i>Chemistry of Materials</i> , 2016, 28, 3327-3336.	3.2	39
46	Structural Evolution of Reversible Mg Insertion into a Bilayer Structure of V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O Xerogel Material. <i>Chemistry of Materials</i> , 2016, 28, 2962-2969.	3.2	97
47	Unraveling the Complex Delithiation Mechanisms of Olivine-Type Cathode Materials, LiFe <sub>x</sub> Co <sub>1-x</sub> PO <sub>4</sub> . <i>Chemistry of Materials</i> , 2016, 28, 3676-3690.	3.2	38
48	Regioselective Atomic Layer Deposition in Metal-Organic Frameworks Directed by Dispersion Interactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 13513-13516.	6.6	78
49	Exploiting Pressure To Induce a Guest-Blocked Spin Transition in a Framework Material. <i>Inorganic Chemistry</i> , 2016, 55, 10490-10498.	1.9	41
50	Electrochemical activity of Fe-MIL-100 as a positive electrode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13764-13770.	5.2	17
51	Structural evolution and structure evolution in $T_{62}C_{38}$	1.1	8
52	The Interplay of Al and Mg Speciation in Advanced Mg Battery Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2016, 138, 328-337.	6.6	186
53	Tracking Sodium-Antimonide Phase Transformations in Sodium-Ion Anodes: Insights from Operando Pair Distribution Function Analysis and Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 2352-2365.	6.6	175
54	Thermodynamics, Kinetics and Structural Evolution of $\mu$ -LiVOPO <sub>4</sub> over Multiple Lithium Intercalation. <i>Chemistry of Materials</i> , 2016, 28, 1794-1805.	3.2	64

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55	Engineering the Transformation Strain in $\text{LiMn}_{1-y}\text{Fe}_y\text{PO}_4$ Olivines for Ultrahigh Rate Battery Cathodes. <i>Nano Letters</i> , 2016, 16, 2375-2380.	4.5	45
56	Surface and Structural Investigation of a $\text{MnO}_x$ Birnessite-Type Water Oxidation Catalyst Formed under Photocatalytic Conditions. <i>Chemistry - A European Journal</i> , 2015, 21, 14218-14228.	1.7	29
57	High Efficiency Adsorption and Removal of Selenate and Selenite from Water Using Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 7488-7494.	6.6	330
58	Best Practices for Operando Battery Experiments: Influences of X-ray Experiment Design on Observed Electrochemical Reactivity. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2081-2085.	2.1	74
59	Pressure-induced structural phase transformation in cobalt(II) dicyanamide. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 252-257.	0.5	14
60	Applications of principal component analysis to pair distribution function data. <i>Journal of Applied Crystallography</i> , 2015, 48, 1619-1626.	1.9	47
61	High Substitution Rate in $\text{TiO}_2$ Anatase Nanoparticles with Cationic Vacancies for Fast Lithium Storage. <i>Chemistry of Materials</i> , 2015, 27, 5014-5019.	3.2	77
62	Targeted Single-Site MOF Node Modification: Trivalent Metal Loading via Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015, 27, 4772-4778.	3.2	116
63	Large Negative Thermal Expansion and Anomalous Behavior on Compression in Cubic $\text{ReO}_3$ -Type $\text{A}^{\text{II}}\text{B}^{\text{IV}}\text{F}_6$ and $\text{CaZrF}_6$ and $\text{CaHfF}_6$ . <i>Chemistry of Materials</i> , 2015, 27, 3912-3918.	3.2	86
64	Oxyanion induced variations in domain structure for amorphous cobalt oxide oxygen evolving catalysts, resolved by X-ray pair distribution function analysis. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 713-721.	0.5	17
65	Catalytic Adventures in Space and Time Using High Energy X-rays. <i>Catalysis Surveys From Asia</i> , 2014, 18, 134-148.	1.0	9
66	Silver-mordenite for radiologic gas capture from complex streams: Dual catalytic $\text{CH}_3\text{I}$ decomposition and I confinement. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 297-303.	2.2	150
67	An ordered metallic glass solid solution phase that grows from the melt like a crystal. <i>Acta Materialia</i> , 2014, 62, 58-68.	3.8	13
68	Identifying the Structure of the Intermediate, $\text{Li}_{2/3}\text{CoPO}_4$ , Formed during Electrochemical Cycling of $\text{LiCoPO}_4$ . <i>Chemistry of Materials</i> , 2014, 26, 6193-6205.	3.2	54
69	Capturing metastable structures during high-rate cycling of $\text{LiFePO}_4$ nanoparticle electrodes. <i>Science</i> , 2014, 344, 1252-1257.	6.0	493
70	Understanding improved electrochemical properties of NiO-doped $\text{NiF}_2$ composite conversion materials by X-ray absorption spectroscopy and pair distribution function analysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3095.	1.3	15
71	Solvation structure and energetics of electrolytes for multivalent energy storage. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21941-21945.	1.3	124
72	Transport, Phase Reactions, and Hysteresis of Iron Fluoride and Oxyfluoride Conversion Electrode Materials for Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10858-10869.	4.0	107

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73	Resolving and Quantifying Nanoscaled Phases in Amorphous FeF <sub>3</sub> by Pair Distribution Function and Mössbauer Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14039-14043.	1.5	10
74	Mesoscale Effects in Electrochemical Conversion: Coupling of Chemistry to Atomic- and Nanoscale Structure in Iron-Based Electrodes. <i>Journal of the American Chemical Society</i> , 2014, 136, 6211-6214.	6.6	32
75	Unraveling the Dynamic Nature of a CuO/CeO <sub>2</sub> Catalyst for CO Oxidation in Operando: A Combined Study of XANES (Fluorescence) and DRIFTS. <i>ACS Catalysis</i> , 2014, 4, 1650-1661.	5.5	128
76	Role of Anion Site Disorder in the Near Zero Thermal Expansion of Tantalum Oxyfluoride. <i>Chemistry of Materials</i> , 2013, 25, 1900-1904.	3.2	31
77	Origin of additional capacities in metal oxide lithium-ion battery electrodes. <i>Nature Materials</i> , 2013, 12, 1130-1136.	13.3	635
78	Correlating structure and chemistry through simultaneous in situ pair distribution function and infrared spectroscopy measurements. <i>CrystEngComm</i> , 2013, 15, 9377.	1.3	10
79	Orientational order-dependent thermal expansion and compressibility of ZrW <sub>2</sub> O <sub>8</sub> and ZrMo <sub>2</sub> O <sub>8</sub> . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19665.	1.3	22
80	Mapping spatially inhomogeneous electrochemical reactions in battery electrodes using high energy X-rays. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8466.	1.3	15
81	Exploiting High Pressures to Generate Porosity, Polymorphism, And Lattice Expansion in the Nonporous Molecular Framework Zn(CN) <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2013, 135, 7621-7628.	6.6	74
82	Competitive I <sub>2</sub> Sorption by Cu-BTC from Humid Gas Streams. <i>Chemistry of Materials</i> , 2013, 25, 2591-2596.	3.2	294
83	Negative thermal expansion and compressibility of Sc <sub>1-x</sub> Y <sub>x</sub> F <sub>3</sub> (x=0.25). <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	68
84	Comprehensive Insights into the Structural and Chemical Changes in Mixed-Anion FeOF Electrodes by Using Operando PDF and NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 4070-4078.	6.6	124
85	Three-Dimensional Structure of the Siskin Green River Oil Shale Kerogen Model: A Comparison between Calculated and Observed Properties. <i>Energy &amp; Fuels</i> , 2013, 27, 702-710.	2.5	94
86	Multinuclear NMR Study of Zinc Dicyanide. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 1205-1218.	1.4	8
87	Variation in the ratio of Mg <sub>2</sub> Co and MgCo <sub>2</sub> in amorphous-like mechanically alloyed Mg <sub>x</sub> Co <sub>100-x</sub> using atomic pair distribution function analysis. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 299-303.	1.1	9
88	A New Class of Lithium and Sodium Rechargeable Batteries Based on Selenium and Selenium-Sulfur as a Positive Electrode. <i>Journal of the American Chemical Society</i> , 2012, 134, 4505-4508.	6.6	534
89	Elucidating the Domain Structure of the Cobalt Oxide Water Splitting Catalyst by X-ray Pair Distribution Function Analysis. <i>Journal of the American Chemical Society</i> , 2012, 134, 11096-11099.	6.6	139
90	Pair distribution function-derived mechanism of a single-crystal to disordered to single-crystal transformation in a hemilabile metal-organic framework. <i>Chemical Science</i> , 2012, 3, 2559.	3.7	34

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91	Hysteretic Three-Step Spin Crossover in a Thermo- and Photochromic 3D Pillared Hofmann-Type Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10154-10158.	7.2	151
92	The AMPIX electrochemical cell: a versatile apparatus for <i>in situ</i> X-ray scattering and spectroscopic measurements. <i>Journal of Applied Crystallography</i> , 2012, 45, 1261-1269.	1.9	179
93	Fast time-resolved pair distribution function studies of supported gold nanoparticle formation. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 268-271.	1.1	7
94	Chasing Changing Nanoparticles with Time-Resolved Pair Distribution Function Methods. <i>Journal of the American Chemical Society</i> , 2012, 134, 5036-5039.	6.6	73
95	Structural and Mechanistic Revelations on an Iron Conversion Reaction from Pair Distribution Function Analysis. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4852-4855.	7.2	36
96	Sonication-induced Ostwald ripening of ZIF-8 nanoparticles and formation of ZIF-8/polymer composite membranes. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 292-299.	2.2	171
97	Determining Quantitative Kinetics and the Structural Mechanism for Particle Growth in Porous Templates. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2742-2746.	2.1	52
98	Local Structural Evolution of Mechanically Alloyed Mg <sub>50</sub> Co <sub>50</sub> Using Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7723-7728.	1.5	17
99	Insight into the Hydrogenation Properties of Mechanically Alloyed Mg <sub>50</sub> Co <sub>50</sub> from the Local Structure. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20335-20341.	1.5	23
100	Trapping Guests within a Nanoporous Metal-Organic Framework through Pressure-Induced Amorphization. <i>Journal of the American Chemical Society</i> , 2011, 133, 18583-18585.	6.6	247
101	Capture of Volatile Iodine, a Gaseous Fission Product, by Zeolitic Imidazolate Framework-8. <i>Journal of the American Chemical Society</i> , 2011, 133, 12398-12401.	6.6	579
102	Elucidating the Structure of Surface Acid Sites on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Chemical Society</i> , 2011, 133, 8522-8524.	6.6	39
103	Optimizing high-pressure pair distribution function measurements in diamond anvil cells. <i>Journal of Applied Crystallography</i> , 2010, 43, 297-307.	1.9	32
104	Pronounced Negative Thermal Expansion from a Simple Structure: Cubic ScF <sub>3</sub> . <i>Journal of the American Chemical Society</i> , 2010, 132, 15496-15498.	6.6	389
105	Investigation of Surface Structures by Powder Diffraction: A Differential Pair Distribution Function Study on Arsenate Sorption on Ferrihydrite. <i>Inorganic Chemistry</i> , 2010, 49, 325-330.	1.9	53
106	Radioactive Iodine Capture in Silver-Containing Mordenites through Nanoscale Silver Iodide Formation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8897-8899.	6.6	517
107	Zero Thermal Expansion in a Flexible, Stable Framework: Tetramethylammonium Copper(I) Zinc(II) Cyanide. <i>Journal of the American Chemical Society</i> , 2010, 132, 10-11.	6.6	104
108	Application of high-energy X-rays and Pair-Distribution-Function analysis to nano-scale structural studies in catalysis. <i>Catalysis Today</i> , 2009, 145, 213-219.	2.2	61

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109	Dynamic Interplay between Spin-Crossover and Host-Guest Function in a Nanoporous Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2009, 131, 10998-11009.	6.6	416
110	Guest Tunable Structure and Spin Crossover Properties in a Nanoporous Coordination Framework Material. <i>Journal of the American Chemical Society</i> , 2009, 131, 12106-12108.	6.6	201
111	Pressure-Induced Amorphization and Porosity Modification in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2009, 131, 17546-17547.	6.6	376
112	Anomalous Thermal Expansion of Cuprites: A Combined High Resolution Pair Distribution Function and Geometric Analysis. <i>Chemistry of Materials</i> , 2009, 21, 425-431.	3.2	23
113	Pair distribution function analysis of pressure treated zeolite Na-A. <i>Chemical Communications</i> , 2009, , 3383.	2.2	31
114	In-Situ X-ray Diffraction Studies of Host-Guest Properties in Nanoporous Zinc-Triazolate-Based Framework Materials. <i>Crystal Growth and Design</i> , 2009, 9, 3609-3614.	1.4	13
115	A versatile sample-environment cell for non-ambient X-ray scattering experiments. <i>Journal of Applied Crystallography</i> , 2008, 41, 822-824.	1.9	258
116	Negative Thermal Expansion in the Metal-Organic Framework Material $\text{Cu}_3(1,3,5\text{-benzenetricarboxylate})_2$ . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8929-8932.	7.2	251
117	Single-Crystal to Single-Crystal Structural Transformation and Photomagnetic Properties of a Porous Iron(II) Spin-Crossover Framework. <i>Journal of the American Chemical Society</i> , 2008, 130, 2869-2876.	6.6	228
118	Elucidating the Mechanism of a Two-Step Spin Transition in a Nanoporous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2008, 130, 17552-17562.	6.6	172
119	Guest-Dependent High Pressure Phenomena in a Nanoporous Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2008, 130, 10524-10526.	6.6	162
120	Pressure Enhancement of Negative Thermal Expansion Behavior and Induced Framework Softening in Zinc Cyanide. <i>Journal of the American Chemical Society</i> , 2007, 129, 10090-10091.	6.6	89
121	Watching Nanoparticles Grow: The Mechanism and Kinetics for the Formation of $\text{TiO}_2$ -Supported Platinum Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 13822-13824.	6.6	122
122	Spin-Crossover Studies on a Series of 1D Chain and Dinuclear Iron(II) Triazine-Dipyridylamine Compounds. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1073-1085.	1.0	58
123	Applications of an amorphous silicon-based area detector for high-resolution, high-sensitivity and fast time-resolved pair distribution function measurements. <i>Journal of Applied Crystallography</i> , 2007, 40, 463-470.	1.9	197
124	Dehydration of the nanoporous coordination framework $\text{Eriii}[\text{Coiii}(\text{CN})_6]_4 \cdot 4(\text{H}_2\text{O})$ : single crystal to single crystal transformation and negative thermal expansion in $\text{Eriii}[\text{Coiii}(\text{CN})_6]$ . <i>Chemical Communications</i> , 2006, , 1857-1859.	2.2	73
125	Compositional Dependence of Negative Thermal Expansion in the Prussian Blue Analogues $\text{MIIPtIV}(\text{CN})_6$ (M = Mn, Fe, Co, Ni, Cu, Zn, Cd). <i>Journal of the American Chemical Society</i> , 2006, 128, 7009-7014.	6.6	228
126	Direct observation of adsorbed $\text{H}_2$ -framework interactions in the Prussian Blue analogue $\text{MnII}3[\text{CoIII}(\text{CN})_6]_2$ : The relative importance of accessible coordination sites and van der Waals interactions. <i>Chemical Communications</i> , 2006, , 4013.	2.2	63



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127	Low energy phonons in the NTE compounds and. Physica B: Condensed Matter, 2006, 385-386, 60-62.	1.3	31
128	Guest-Dependent Negative Thermal Expansion in Nanoporous Prussian Blue Analogues $MIIIPtIV(CN)_6 \cdot x\{H_2O\}$ ( $0 \leq x \leq 2$ ; $M = Zn, Cd$ ). Journal of the American Chemical Society, 2005, 127, 17980-17981.	6.6	215
129	Reversible hydrogen gas uptake in nanoporous Prussian Blue analogues. Chemical Communications, 2005, , 3322.	2.2	155
130	Direct Observation of a Transverse Vibrational Mechanism for Negative Thermal Expansion in $Zn(CN)_2$ : An Atomic Pair Distribution Function Analysis. Journal of the American Chemical Society, 2005, 127, 15630-15636.	6.6	211
131	Selective Recovery of Dynamic Guest Structure in a Nanoporous Prussian Blue through in Situ X-ray Diffraction: A Differential Pair Distribution Function Analysis. Journal of the American Chemical Society, 2005, 127, 11232-11233.	6.6	88