Bo Brummerstedt Iversen

List of Publications by Year
in descending order

544 papers	22,346 citations	9264 74 h-index	19190 118 g-index
577 all docs	577 docs citations	577 times ranked	18472 citing authors

#	Article	IF	Citations
1	Disordered zinc in Zn4Sb3 with phonon-glass and electron-crystal thermoelectric properties. Nature Materials, 2004, 3, 458-463.	27.5	787
2	Avoided crossing of rattler modes in thermoelectric materials. Nature Materials, 2008, 7, 811-815.	27.5	557
3	Discovery of high-performance low-cost n-type Mg3Sb2-based thermoelectric materials with multi-valley conduction bands. Nature Communications, 2017, 8, 13901.	12.8	415
4	Coexistence of the topological state and a two-dimensional electron gas on the surface of Bi2Se3. Nature Communications, 2010, 1, 128.	12.8	407
5	Large Tunable Rashba Spin Splitting of a Two-Dimensional Electron Gas in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn Physical Review Letters, 2011, 107, 096802.	7.8	405
6	Three new co-crystals of hydroquinone: crystal structures and Hirshfeld surface analysis of intermolecular interactions. New Journal of Chemistry, 2010, 34, 193-199.	2.8	306
7	Thermoelectric clathrates of type I. Dalton Transactions, 2010, 39, 978-992.	3.3	277
8	Measuring thermoelectric transport properties of materials. Energy and Environmental Science, 2015, 8, 423-435.	30.8	275
9	Colossal Seebeck coefficient in strongly correlated semiconductor FeSb ₂. Europhysics Letters, 2007, 80, 17008.	2.0	224
10	Measurement of the electrical resistivity and Hall coefficient at high temperatures. Review of Scientific Instruments, 2012, 83, 123902.	1.3	223
11	Quantitative analysis of intermolecular interactions in orthorhombic rubrene. IUCrJ, 2015, 2, 563-574.	2.2	206
12	Designing high-performance layered thermoelectric materials through orbital engineering. Nature Communications, 2016, 7, 10892.	12.8	203
13	Elucidating Negative Thermal Expansion in MOF-5. Journal of Physical Chemistry C, 2010, 114, 16181-16186.	3.1	199
14	Revealing the Mechanisms behind SnO₂ Nanoparticle Formation and Growth during Hydrothermal Synthesis: An In Situ Total Scattering Study. Journal of the American Chemical Society, 2012, 134, 6785-6792.	13.7	180
15	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu₂Se_{1â€"<i>x</i>}S_{<i>x</i>} Liquid-like Materials. Chemistry of Materials, 2017, 29, 6367-6377.	6.7	179
16	Thermal conductivity of thermoelectric clathrates. Physical Review B, 2004, 69, .	3.2	169
17	Interstitial Zn Atoms Do the Trick in Thermoelectric Zinc Antimonide, Zn4Sb3: A Combined Maximum Entropy Method X-ray Electron Density and Ab Initio Electronic Structure Study. Chemistry - A European Journal, 2004, 10, 3861-3870.	3.3	169
18	Crystal Structures of Thermoelectricn-andp-type Ba8Ga16Ge30Studied by Single Crystal, Multitemperature, Neutron Diffraction, Conventional X-ray Diffraction and Resonant Synchrotron X-ray Diffraction. Journal of the American Chemical Society, 2006, 128, 15657-15665.	13.7	167

#	Article	IF	Citations
19	Topological Analysis of the Charge Density in Short Intramolecular Oâ˜HÂ·Â·Â·O Hydrogen Bonds. Very Low Temperature X-ray and Neutron Diffraction Study of Benzoylacetone. Journal of the American Chemical Society, 1998, 120, 10040-10045.	13.7	153
20	High-Performance Low-Cost n-Type Se-Doped Mg₃Sb₂-Based Zintl Compounds for Thermoelectric Application. Chemistry of Materials, 2017, 29, 5371-5383.	6.7	148
21	In-Plane Magnetic Anisotropy of Fe Atoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 647 Td (stretchy="fa	7.8	144
22	Crystal structures, atomic vibration, and disorder of the type-I thermoelectric clathratesBa8Ga16Si30,Ba8Ga16Ge30,Ba8In16Ge30, andSr8Ga16Ge30. Physical Review B, 2005, 71, .	3.2	142
23	Effect of hydrothermal liquefaction aqueous phase recycling on bio-crude yields and composition. Bioresource Technology, 2016, 220, 190-199.	9.6	141
24	High temperature thermoelectric efficiency in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>8</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ge</mml:mi><mml:mn>30</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, .	3.2	138
25	The influence of crystallite size and crystallinity of anatase nanoparticles on the photo-degradation of phenol. Journal of Catalysis, 2014, 310, 100-108.	6.2	138
26	On the electronic nature of low-barrier hydrogen bonds in enzymatic reactions. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12799-12802.	7.1	136
27	Simultaneous Quantization of Bulk Conduction and Valence States through Adsorption of Nonmagnetic Impurities on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mn Physical Review Letters, 2011, 107, 086802.	7.8	136
28	Experimental setup for<i>in situ</i>X-ray SAXS/WAXS/PDF studies of the formation and growth of nanoparticles in near- and supercritical fluids. Journal of Applied Crystallography, 2010, 43, 729-736.	4.5	132
29	Ultrahigh thermoelectric performance in Cu 2â˜y Se 0.5 S 0.5 liquid-like materials. Materials Today Physics, 2017, 1, 14-23.	6.0	130
30	General Solvothermal Synthesis Method for Complete Solubility Range Bimetallic and Highâ€Entropy Alloy Nanocatalysts. Advanced Functional Materials, 2019, 29, 1905933.	14.9	130
31	Why are Clathrates Good Candidates for Thermoelectric Materials?. Journal of Solid State Chemistry, 2000, 149, 455-458.	2.9	129
32	Solvothermal synthesis of new metal organic framework structures in the zincâ€"terephthalic acidâ€"dimethyl formamide system. Journal of Solid State Chemistry, 2005, 178, 3342-3351.	2.9	128
33	Inâ€…Situ Studies of Solvothermal Synthesis of Energy Materials. ChemSusChem, 2014, 7, 1594-1611.	6.8	128
34	Characterization of the Short Strong Hydrogen Bond in Benzoylacetone by ab Initio Calculations and Accurate Diffraction Experiments. Implications for the Electronic Nature of Low-Barrier Hydrogen Bonds in Enzymatic Reactions. Journal of the American Chemical Society, 1998, 120, 12117-12124.	13.7	120
35	Evidence for a direct band gap in the topological insulator Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>from theory and experiment. Physical Review B, 2013, 87, .	3.2	117
36	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. Journal of the American Chemical Society, 2019, 141, 16202-16207.	13.7	113

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37	Insights into the design of thermoelectric Mg3Sb2 and its analogs by combining theory and experiment. Npj Computational Materials, 2019, 5, .	8.7	111
38	Phase transition enhanced thermoelectric figure-of-merit in copper chalcogenides. APL Materials, 2013, 1, .	5.1	109
39	Location of Cu²⁺in CHA zeolite investigated by X-ray diffraction using the Rietveld/maximum entropy method. IUCrJ, 2014, 1, 382-386.	2.2	107
40	First Experimental Characterization of a Non-nuclear Attractor in a Dimeric Magnesium(I) Compound. Journal of Physical Chemistry A, 2011, 115, 194-200.	2.5	106
41	Simultaneous improvement of power factor and thermal conductivity via Ag doping in p-type Mg₃Sb₂ thermoelectric materials. Journal of Materials Chemistry A, 2017, 5, 4932-4939.	10.3	105
42	Modeling the thermal conductivities of the zinc antimonides ZnSb and Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	102
43	Chemical bonding origin of the unexpected isotropic physical properties in thermoelectric Mg3Sb2 andÂrelated materials. Nature Communications, 2018, 9, 4716.	12.8	102
44	Stability of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Bi</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Se</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>(111) topological state: Electron-phonon and electron-defect scattering. Physical Review B, 2011, 83, .	3.2	101
45	Direct Evidence of Cation Disorder in Thermoelectric Lead Chalcogenides PbTe and PbS. Advanced Functional Materials, 2013, 23, 5477-5483.	14.9	98
46	Controllable Magnetic Doping of the Surface State of a Topological Insulator. Physical Review Letters, 2013, 110, 126804.	7.8	98
47	Host Structure Engineering in Thermoelectric Clathrates. Chemistry of Materials, 2007, 19, 4896-4905.	6.7	95
48	Experimental and Theoretical Charge Density Studies at Subatomic Resolution. Journal of Physical Chemistry A, 2011, 115, 13061-13071.	2.5	95
49	The chemistry of nucleation. CrystEngComm, 2016, 18, 8332-8353.	2.6	95
50	Biomolecule-Assisted Hydrothermal Synthesis and Self-Assembly of Bi₂Te₃ Nanostring-Cluster Hierarchical Structure. ACS Nano, 2010, 4, 2523-2530.	14.6	94
51	Large Seebeck effect by charge-mobility engineering. Nature Communications, 2015, 6, 7475.	12.8	94
52	Testing the Concept of Hypervalency: Charge Density Analysis of K₂SO₄. Inorganic Chemistry, 2012, 51, 8607-8616.	4.0	93
53	Cu₈GeSe₆-based thermoelectric materials with an argyrodite structure. Journal of Materials Chemistry C, 2017, 5, 943-952.	5.5	93
54	X-ray electron density investigation of chemical bonding in van der Waals materials. Nature Materials, 2018, 17, 249-252.	27.5	93

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55	Experimental and theoretical investigations of strongly correlatedFeSb2â^’xSnx. Physical Review B, 2006, 74, .	3.2	91
56	Low-Temperature Structural Transitions in the Phonon-Glass Thermoelectric Material Î²-Zn4Sb3:Â Ordering of Zn Interstitials and Defects. Chemistry of Materials, 2007, 19, 834-838.	6.7	89
57	Understanding the Formation and Evolution of Ceria Nanoparticles Under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2012, 51, 9030-9033.	13.8	88
58	Defects in Hydrothermally Synthesized LiFePO₄ and LiFe_{1-x}Mn_{<i>x</i>}PO₄ Cathode Materials. Chemistry of Materials, 2013, 25, 2282-2290.	6.7	88
59	Interrelation between atomic switching disorder and thermoelectric properties of ZrNiSn half-Heusler compounds. CrystEngComm, 2012, 14, 4467.	2.6	87
60	Extremely low thermal conductivity and high thermoelectric performance in liquid-like Cu₂Se_{1â^’x}S_x polymorphic materials. Journal of Materials Chemistry A, 2017, 5, 18148-18156.	10.3	86
61	New Insight on Tuning Electrical Transport Properties via Chalcogen Doping in nâ€type Mg₃Sb₂â€Based Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1702776.	19.5	85
62	Narrow band gap and enhanced thermoelectricity in FeSb2. Dalton Transactions, 2010, 39, 1012-1019.	3.3	84
63	Ab initio Calculations of Intrinsic Point Defects in ZnSb. Chemistry of Materials, 2012, 24, 2111-2116.	6.7	84
64	Experimental evidence for the existence of non-nuclear maxima in the electron-density distribution of metallic beryllium. A comparative study of the maximum entropy method and the multipole refinement method. Acta Crystallographica Section B: Structural Science, 1995, 51, 580-591.	1.8	83
65	Enhanced Thermoelectric Properties in Zinc Antimonides. Chemistry of Materials, 2011, 23, 3907-3914.	6.7	83
66	Improvements and considerations for size distribution retrieval from small-angle scattering data by Monte Carlo methods. Journal of Applied Crystallography, 2013, 46, 365-371.	4.5	83
67	Critical Size of Crystalline ZrO₂ Nanoparticles Synthesized in Near- and Supercritical Water and Supercritical Isopropyl Alcohol. ACS Nano, 2008, 2, 1058-1068.	14.6	82
68	Timeâ€Resolved In Situ Synchrotron Xâ€ray Study and Largeâ€Scale Production of Magnetite Nanoparticles in Supercritical Water. Angewandte Chemie - International Edition, 2009, 48, 4788-4791.	13.8	80
69	Synthesis, Physical Properties, Multitemperature Crystal Structure, and 20 K Synchrotron X-ray Charge Density of a Magnetic Metal Organic Framework Structure, Mn3(C8O4H4)3(C5H11ON)2. Journal of the American Chemical Society, 2005, 127, 9156-9166.	13.7	79
70	Electronic structure and transport in the low-temperature thermoelectricCsBi4Te6: Semiclassical transport equations. Physical Review B, 2006, 73, .	3.2	78
71	Experimental and Theoretical Charge Density Study of Chemical Bonding in a Co Dimer Complex. Journal of the American Chemical Society, 2008, 130, 3834-3843.	13.7	78
72	Anisotropic Crystal Growth Kinetics of Anatase TiO₂ Nanoparticles Synthesized in a Nonaqueous Medium. Chemistry of Materials, 2010, 22, 6044-6055.	6.7	77

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73	Redoxâ€Driven Migration of Copper Ions in the Cuâ€CHA Zeolite as Shown by the Inâ€…Situ PXRD/XANES Technique. Angewandte Chemie - International Edition, 2017, 56, 10367-10372.	13.8	76
74	Mechanisms for Iron Oxide Formation under Hydrothermal Conditions: An <i>in Situ</i> Total Scattering Study. ACS Nano, 2014, 8, 10704-10714.	14.6	75
75	Nanostructured Co1â^'xNix(Sb1â^'yTey)3 skutterudites: Theoretical modeling, synthesis and thermoelectric properties. Journal of Applied Physics, 2005, 97, 044317.	2.5	74
76	Optimized Carbonation of Magnesium Silicate Mineral for CO₂ Storage. ACS Applied Materials & Interfaces, 2015, 7, 5258-5264.	8.0	74
77	Probing the accuracy and precision of Hirshfeld atom refinement with <i>HARt</i> interfaced with <i>Olex2</i>. IUCrJ, 2018, 5, 32-44.	2.2	74
78	Multi-Temperature Crystallographic Studies of Mixed-Valence Polynuclear Complexes; Valence Trapping Process in the Trinuclear Oxo-Bridged Iron Compound, [Fe3O(O2CC(CH3)3)6(C5H5N)3]. Journal of the American Chemical Society, 2000, 122, 11370-11379.	13.7	73
79	Supercritical Propanolâ€"Water Synthesis and Comprehensive Size Characterisation of Highly Crystalline anatase TiO2 Nanoparticles. Journal of Solid State Chemistry, 2006, 179, 2674-2680.	2.9	73
80	Hg0.04Zn3.96Sb3: Synthesis, Crystal Structure, Phase Transition, and Thermoelectric Properties. Chemistry of Materials, 2007, 19, 6304-6311.	6.7	73
81	High thermoelectric performance and low thermal conductivity in Cu2â^'yS1/3Se1/3Te1/3 liquid-like materials with nanoscale mosaic structures. Nano Energy, 2017, 42, 43-50.	16.0	73
82	The Charge Density Distribution in a Model Compound of the Catalytic Triad in Serine Proteases. Chemistry - A European Journal, 2001, 7, 3756-3767.	3.3	71
83	Crystal structure and phase transition of thermoelectric SnSe. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 310-316.	1.1	70
84	Thermoelectric properties of Cu₂Se_{1â^'x}Te_x solid solutions. Journal of Materials Chemistry A, 2018, 6, 6977-6986.	10.3	70
85	Synthesis and characterization of basic bismuth(III) nitrates. Dalton Transactions RSC, 2000, , 265-270.	2.3	69
86	Guestâ€"Framework Interaction in Type I Inorganic Clathrates with Promising Thermoelectric Properties: On the Ionic versus Neutral Nature of the Alkaline-Earth Metal Guest A in A8Ga16Ge30 (A=Sr, Ba). Chemistry - A European Journal, 2003, 9, 4556-4568.	3.3	69
87	In Situ High-Energy Synchrotron Radiation Study of Solâ€"Gel Nanoparticle Formation in Supercritical Fluids. Angewandte Chemie - International Edition, 2007, 46, 1113-1116.	13.8	69
88	Metastable formation of low temperature cubic Li2TiO3 under hydrothermal conditions â€" Its stability and structural properties. Solid State Ionics, 2010, 181, 1525-1529.	2.7	69
89	The Chemistry of Nucleation: In Situ Pair Distribution Function Analysis of Secondary Building Units During UiOâ€66 MOF Formation. Chemistry - A European Journal, 2019, 25, 2051-2058.	3.3	68
90	Interanionic Oâ^'Hâ‹…â‹…â‹…O Interactions: The Charge Density Point of View. Angewandte Chemie - International Edition, 2000, 39, 2719-2722.	13.8	67

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91	Crystal Structure, Band Structure, and Physical Properties of Ba8Cu6-xGe40+x(0 â‰xâ‰ 0.7). Chemistry of Materials, 2006, 18, 4633-4642.	6.7	67
92	Thermally stable thermoelectric Zn4Sb3 by zone-melting synthesis. Applied Physics Letters, 2008, 92, .	3.3	67
93	Huge Thermoelectric Power Factor: FeSb₂versus FeAs₂and RuSb₂. Applied Physics Express, 2009, 2, 091102.	2.4	67
94	Maximum entropy method analysis of thermal motion and disorder in thermoelectric clathrate Ba8Ga16Si30. Journal of Applied Physics, 2002, 91, 5694-5699.	2.5	66
95	Electron Density Distributions of Redox Active Mixed Valence Carboxylate Bridged Trinuclear Iron Complexes. Journal of the American Chemical Society, 2003, 125, 11088-11099.	13.7	66
96	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeSb</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Prototype of huge electron-diffusion thermoelectricity. Physical Review B, 2009, 79, .	3.2	66
97	Size and Morphology Dependence of ZnO Nanoparticles Synthesized by a Fast Continuous Flow Hydrothermal Method. Crystal Growth and Design, 2011, 11, 4027-4033.	3.0	66
98	Surface-Dominated Transport on a Bulk Topological Insulator. Nano Letters, 2014, 14, 3755-3760.	9.1	66
99	Atomic properties and chemical bonding in the pyrite and marcasite polymorphs of FeS₂: a combined experimental and theoretical electron density study. Chemical Science, 2014, 5, 1408-1421.	7.4	65
100	Crystal structure across the Î² to Î± phase transition in thermoelectric Cu_{2â^'<i>x</i>}Se. IUCrJ, 2017, 4, 476-485.	2.2	65
101	Fulfilling thermoelectric promises: Î²-Zn4Sb3 from materials research to power generation. Journal of Materials Chemistry, 2010, 20, 10778.	6.7	64
102	Robust Surface Doping of Bi₂Se₃ by Rubidium Intercalation. ACS Nano, 2012, 6, 7009-7015.	14.6	64
103	Predicting the Chemical Composition of Aqueous Phase from Hydrothermal Liquefaction of Model Compounds and Biomasses. Energy & Fuels, 2016, 30, 10470-10483.	5.1	64
104	Hostâ€"Guest Chemistry of the Chromium-Wheel Complex [Cr8F8(tBuCO2)16]: Prediction of Inclusion Capabilities by Using an Electrostatic Potential Distribution Determined by Modeling Synchrotron X-ray Structure Factors at 16 K. Chemistry - A European Journal, 2002, 8, 2775.	3.3	63
105	The use of synchrotron radiation in X-ray charge density analysis of coordination complexes. Coordination Chemistry Reviews, 2005, 249, 179-195.	18.8	63
106	Experimental Electron Density Study of the Mgâ^'Mg Bonding Character in a Magnesium(I) Dimer. Journal of the American Chemical Society, 2009, 131, 4208-4209.	13.7	63
107	Experimental determination of core electron deformation in diamond. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 39-48.	0.1	63
108	Strong Nâ^'Hâ‹...â‹...â‹...O Hydrogen Bonding in a Model Compound of the Catalytic Triad in Serine Proteases. Angewandte Chemie - International Edition, 1999, 38, 1239-1242.	13.8	62

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109	Hydrothermal co-liquefaction of biomasses â€“ quantitative analysis of bio-crude and aqueous phase composition. Sustainable Energy and Fuels, 2017, 1, 789-805.	4.9	62
110	Thermoelectric properties of thin films of bismuth telluride electrochemically deposited on stainless steel substrates. Electrochimica Acta, 2011, 56, 4216-4223.	5.2	61
111	Nonstoichiometry and chemical purity effects in thermoelectric Ba8Ga16Ge30 clathrate. Journal of Applied Physics, 2002, 92, 7281-7290.	2.5	60
112	Lowâ€Cost Highâ€Performance Zinc Antimonide Thin Films for Thermoelectric Applications. Advanced Materials, 2012, 24, 1693-1696.	21.0	60
113	Strong phonon charge carrier coupling in thermoelectric clathrates. Physical Review B, 2006, 73, .	3.2	59
114	Controlling Size, Crystallinity, and Electrochemical Performance of Li₄Ti₅O₁₂ Nanocrystals. Chemistry of Materials, 2013, 25, 5023-5030.	6.7	59
115	Scrutinizing negative thermal expansion in MOF-5 by scattering techniques and ab initio calculations. Dalton Transactions, 2013, 42, 1996-2007.	3.3	59
116	In Situ Total Xâ€Ray Scattering Study of WO₃ Nanoparticle Formation under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2014, 53, 3667-3670.	13.8	59
117	Solid State Formation Mechanism of Li₄Ti₅O₁₂from an Anatase TiO₂Source. Chemistry of Materials, 2014, 26, 3679-3686.	6.7	59
118	F center in sodium electrosodalite as a physical manifestation of a non-nuclear attractor in the electron density. Physical Review B, 1999, 59, 12359-12369.	3.2	57
119	Development and Application of Chemical Analysis Methods for Investigation of Bio-Oils and Aqueous Phase from Hydrothermal Liquefaction of Biomass. Energy & Fuels, 2012, 26, 6988-6998.	5.1	57
120	Visualizing Lithiumâ€Ion Migration Pathways in Battery Materials. Chemistry - A European Journal, 2013, 19, 15535-15544.	3.3	57
121	Crystal structure and transport properties of nickel containing germanium clathrates. Physical Review B, 2007, 76, .	3.2	56
122	Experimental Charge Densities of Semiconducting Cage Structures Containing Alkaline Earth Guest Atoms. Angewandte Chemie - International Edition, 2000, 39, 3613-3616.	13.8	55
123	In-Situ Synchrotron Radiation Study of Formation and Growth of Crystalline CexZr1âˆ'xO2 Nanoparticles Synthesized in Supercritical Water. Chemistry of Materials, 2010, 22, 1814-1820.	6.7	55
124	Enhanced thermoelectric properties of Mg2Si by addition of TiO2 nanoparticles. Journal of Applied Physics, 2012, 111, .	2.5	55
125	Cd Substitution in M_{<i>x</i>}Zn_{4âˆ'<i>-</i>x}Sb₃: Effect on Thermal Stability, Crystal Structure, Phase Transitions, and Thermoelectric Performance. Chemistry of Materials, 2010, 22, 2375-2383.	6.7	54
126	ZnO nanoparticle based highly efficient CdS/CdSe quantum dot-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 8710.	2.8	54

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127	Formation Mechanisms of Nanocrystalline MnO₂ Polymorphs under Hydrothermal Conditions. Crystal Growth and Design, 2018, 18, 827-838.	3.0	54
128	Highâ€Pressure, Highâ€Temperature Formation of Phaseâ€Pure Monoclinic Zirconia Nanocrystals Studied by Timeâ€Resolved in situ Synchrotron Xâ€Ray Diffraction. Advanced Materials, 2009, 21, 3572-3575.	21.0	53
129	Hydrothermal Liquefaction of the Microalgae <i>Phaeodactylum tricornutum</i>: Impact of Reaction Conditions on Product and Elemental Distribution. Energy & Fuels, 2014, 28, 5792-5803.	5.1	53
130	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. Nature Communications, 2017, 8, 14074.	12.8	53
131	<i>In Situ</i> X-ray Diffraction Study of the Formation, Growth, and Phase Transition of Colloidal Cu_{2â€“<i>x</i>}S Nanocrystals. ACS Nano, 2014, 8, 4295-4303.	14.6	52
132	In situ total X-ray scattering study of the formation mechanism and structural defects in anatase TiO₂ nanoparticles under hydrothermal conditions. CrystEngComm, 2015, 17, 6868-6877.	2.6	52
133	Accurate charge densities in days â€” use of synchrotrons, image plates and very low temperatures. Acta Crystallographica Section B: Structural Science, 1999, 55, 363-374.	1.8	51
134	Demonstration of thin film pair distribution functionÂanalysis (tfPDF) for the study of local structure in amorphous and crystalline thin films. IUCrJ, 2015, 2, 481-489.	2.2	50
135	Mechanistic Insight into the Interaction Between a Titanium Dioxide Photocatalyst and Pd Cocatalyst for Improved Photocatalytic Performance. ACS Catalysis, 2016, 6, 4239-4247.	11.2	50
136	Role of vacancies in the high-temperature pseudodisplacive phase transition in GeTe. Physical Review B, 2018, 97, .	3.2	50
137	Autocatalytic Formation of Highâ€Entropy Alloy Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 21920-21924.	13.8	50
138	Reactor design for in situ X-ray scattering studies of nanoparticle formation in supercritical water syntheses. Journal of Supercritical Fluids, 2008, 44, 385-390.	3.2	48
139	Multitemperature crystal structures and physical properties of the partially filled thermoelectric skutterudites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>M</mml:mi><mml:mrow><mml:mn>0.1</mml:mn></mml:mrow></mml:msub><m mathvariant="normal">Co</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi		

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