Bo Brummerstedt Iversen

List of Publications by Year
in descending order

544	22,346	9264 74	19190 118
papers	citations	h-index	g-index

577	577	577	18472
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stability and effect of PbS nanoinclusions in thermoelectric PbTe. Journal of Materials Chemistry A, 2022, 10, 1473-1480.	10.3	5
2	Characterizing thermoelectric stability. Dalton Transactions, 2022, , .	3.3	6
3	Sensitivity of the glass transition and melting in a metalâ€“organic framework to ligand chemistry. Chemical Communications, 2022, 58, 823-826.	4.1	8
4	Effects of Voigt diffraction peak profiles on the pair distribution function. Acta Crystallographica Section A: Foundations and Advances, 2022, 78, 10-20.	0.1	3
5	Synthesis and structural characterization of Al₂O₃ nanoparticles: Towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012023.	0.4	2
6	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.	9.1	15
7	Xâ€ray Electron Density Study of the Chemical Bonding Origin of Glass Formation in Metalâ€“Organic Frameworks**. Angewandte Chemie - International Edition, 2022, , .	13.8	7
8	Anharmonic motion and aspherical nuclear probability density functions in cesium halides. Physical Review B, 2022, 105, .	3.2	0
9	Highly efficient and stable Ru nanoparticle electrocatalyst for the hydrogen evolution reaction in alkaline conditions. Catalysis Science and Technology, 2022, 12, 3606-3613.	4.1	5
10	Optical manipulation of Rashba-split 2-dimensional electron gas. Nature Communications, 2022, 13, .	12.8	10
11	Synthesis of Phase-Pure Thermochromic VO₂ (M1). Inorganic Chemistry, 2022, 61, 8760-8766.	4.0	3
12	Epitaxial intergrowths and local oxide relaxations in natural bixbyite Fe_{2â˜’x}Mn_xO₃. IUCrJ, 2022, 9, 523-532.	2.2	2
13	Insight into the Strategies for Improving the Thermal Stability of Efficient N-Type Mg₃Sb₂-Based Thermoelectric Materials. ACS Applied Materials & Interfaces, 2022, 14, 31024-31034.	8.0	17
14	Phase control for indium oxide nanoparticles. Nanoscale, 2021, 13, 4038-4050.	5.6	10
15	Strategies for synthesis of Prussian blue analogues. Royal Society Open Science, 2021, 8, 201779.	2.4	43
16	Multipole electron densities and structural parameters from synchrotron powder X-ray diffraction data obtained with a MYTHEN detector system (OHGI). Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 85-95.	0.1	8
17	Tailoring the stoichiometry of C₃N₄ nanosheets under electron beam irradiation. Physical Chemistry Chemical Physics, 2021, 23, 4747-4756.	2.8	6
18	Locating Fe dopants in catalytic PtPd nanoparticles on Î³-alumina using X-ray absorption spectroscopy. Catalysis Science and Technology, 2021, 11, 1961-1964.	4.1	0

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19	Unravelling the complex formation mechanism of HfO₂ nanocrystals using in situ pair distribution function analysis. Nanoscale, 2021, 13, 12711-12719.	5.6	8
20	Sample dependent performance of aqueous copper hexacyanoferrate/zinc batteries. Materials Advances, 2021, 2, 2036-2044.	5.4	9
21	Improved Thermoelectric Properties of N-Type Mg₃Sb₂ through Cation-Site Doping with Gd or Ho. ACS Applied Materials & Interfaces, 2021, 13, 10964-10971.	8.0	21
22	Bandgap Tuning in Molecular Alloy Crystals Formed by Weak Chalcogen Interactions. Journal of Physical Chemistry Letters, 2021, 12, 3059-3065.	4.6	12
23	Synchrotron total-scattering data applicable to dual-space structural analysis. IUCrJ, 2021, 8, 387-394.	2.2	8
24	Structural evolution in thermoelectric zinc antimonide thin films studied by in situ X-ray scattering techniques. IUCrJ, 2021, 8, 444-454.	2.2	2
25	Exciting Opportunities for Solid-State 95Mo NMR Studies of MoS2 Nanostructures in Materials Research from a Low to an Ultrahigh Magnetic Field (35.2 T). Journal of Physical Chemistry C, 2021, 125, 7824-7838.	3.1	1
26	Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. Joule, 2021, 5, 1183-1195.	24.0	27
27	Insights into Hostâ€“Guest Binding in Hydroquinone Clathrates: Single-Crystal X-ray and Neutron Diffraction, and Complementary Computational Studies on the Hydroquinone-CO₂ Clathrate. Crystal Growth and Design, 2021, 21, 3477-3486.	3.0	5
28	Tuneable local order in thermoelectric crystals. IUCrJ, 2021, 8, 695-702.	2.2	8
29	Anharmonicity and correlated dynamics of PbTe and PbS studied by single crystal x-ray scattering. Physical Review B, 2021, 103, .	3.2	7
30	Chemical Bonding Origin of the Thermoelectric Power Factor in Half-Heusler Semiconductors. Chemistry of Materials, 2021, 33, 5308-5316.	6.7	25
31	Operando structural investigations of thermoelectric materials. Journal of Applied Crystallography, 2021, 54, 1189-1197.	4.5	6
32	Breaking thermoelectric performance limits. Nature Materials, 2021, 20, 1309-1310.	27.5	22
33	Stability and Thermoelectric Properties of Zn4Sb3 with TiO2 Nanoparticle Inclusions. ACS Applied Materials & Interfaces, 2021, 13, 45708-45716.	8.0	7
34	Tuning of bandgaps and emission properties of light-emitting diode materials through homogeneous alloying in molecular crystals. Chemical Science, 2021, 12, 12391-12399.	7.4	5
35	Pair distribution function and ⁷¹Ga NMR study of aqueous Ga³⁺ complexes. Chemical Science, 2021, 12, 14420-14431.	7.4	6
36	On single-crystal total scattering data reduction and correction protocols for analysis in direct space. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 611-636.	0.1	5

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37	First-order antiferromagnetic transitions of SrMn ₂ P ₂ and CaMn ₂ P ₂ single crystals containing corrugated-honeycomb Mn sublattices. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
38	Direct observation of one-dimensional disordered diffusion channel in a chain-like thermoelectric with ultralow thermal conductivity. Nature Communications, 2021, 12, 6709.	12.8	21
39	Microstructure and Thermoelectric Properties of Zn_{1â€“x}Ag_xSb Thin Films Grown by Single-Target Magnetron Sputtering. ACS Applied Energy Materials, 2020, 3, 2055-2062.	5.1	15
40	Rapid Oneâ€Step Synthesis and Compaction of Highâ€Performance nâ€Type Mg₃Sb₂ Thermoelectrics. Angewandte Chemie, 2020, 132, 4308-4312.	2.0	6
41	Continuous flow hydrothermal synthesis of phase pure rutile TiO₂ nanoparticles with a rod-like morphology. Nanoscale, 2020, 12, 2695-2702.	5.6	12
42	Rapid Oneâ€Step Synthesis and Compaction of Highâ€Performance nâ€Type Mg₃Sb₂ Thermoelectrics. Angewandte Chemie - International Edition, 2020, 59, 4278-4282.	13.8	32
43	Groupâ€…13 Precursor Structures and Their Effect on Oxide Nanocrystal Formation. Chemistry - A European Journal, 2020, 26, 1022-1026.	3.3	9
44	Probing the validity of the spinel inversion model: a combined SPXRD, PDF, EXAFS and NMR study of ZnAl₂O₄. Dalton Transactions, 2020, 49, 13449-13461.	3.3	11
45	Selective Catalytic Reduction of NO Using Phase-Pure Anatase, Rutile, and Brookite TiO₂ Nanocrystals. Inorganic Chemistry, 2020, 59, 15324-15334.	4.0	23
46	Facile synthesis of brookite TiO₂ nanoparticles. Chemical Communications, 2020, 56, 15084-15087.	4.1	13
47	Probing Efficient Nâ€Type Lanthanide Dopants for Mg₃Sb₂ Thermoelectrics. Advanced Science, 2020, 7, 2002867.	11.2	23
48	Temperature dependence of dynamic dipole formation in PbTe. Physical Review B, 2020, 102, .	3.2	14
49	Zinc antimonide thin film based flexible thermoelectric module. Materials Letters, 2020, 280, 128582.	2.6	4
50	Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22357-22365.	3.1	4
51	Autocatalytic Formation of Highâ€Entropy Alloy Nanoparticles. Angewandte Chemie, 2020, 132, 22104-22108.	2.0	25
52	Autocatalytic Formation of Highâ€Entropy Alloy Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 21920-21924.	13.8	50
53	Maximizing the Catalytically Active {001} Facets on Anatase Nanoparticles. Chemistry of Materials, 2020, 32, 5134-5141.	6.7	9
54	Why Does Bi₂WO₆ Visible-Light Photocatalyst Always Form as Nanoplatelets?. Inorganic Chemistry, 2020, 59, 9364-9373.	4.0	20

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55	Accurate high-resolution single-crystal diffraction data from a Pilatus3â€…X CdTe detector. Journal of Applied Crystallography, 2020, 53, 635-649.	4.5	28
56	Atomic Scale Design of Spinel ZnAl₂O₄ Nanocrystal Synthesis. Crystal Growth and Design, 2020, 20, 1789-1799.	3.0	15
57	Mapping the redox chemistry of common solvents in solvothermal synthesis through in situ X-ray diffraction. Nanoscale, 2020, 12, 8511-8518.	5.6	11
58	Single-Crystal High-Pressure X-ray Diffraction Study of Host Structure Compression in Clathrates of Dianinâ€™s Compound. Crystal Growth and Design, 2020, 20, 4092-4099.	3.0	5
59	Chemical Bonding in Colossal Thermopower FeSb₂. Chemistry - A European Journal, 2020, 26, 8651-8662.	3.3	6
60	Continuous flow hydrothermal synthesis of rutile SnO2 nanoparticles: Exploration of pH and temperature effects. Journal of Supercritical Fluids, 2020, 166, 105029.	3.2	18
61	OperandoX-ray scattering study of thermoelectric Î²-Zn₄Sb₃. IUCrJ, 2020, 7, 100-104.	2.2	10
62	Expression and interactions of stereochemically active lone pairs and their relation to structural distortions and thermal conductivity. IUCrJ, 2020, 7, 480-489.	2.2	18
63	A simple model for vacancy order and disorder in defective half-Heusler systems. IUCrJ, 2020, 7, 673-680.	2.2	24
64	Electron Density Studies in Materials Research. Chemistry - A European Journal, 2019, 25, 15010-15029.	3.3	26
65	Influence of Phase Separation and Spinodal Decomposition on Microstructure of Mg₂Si_{1â€“x}Sn_x Alloys. Crystal Growth and Design, 2019, 19, 4927-4933.	3.0	11
66	Fermi surface complexity, effective mass, and conduction band alignment in n-type thermoelectric Mg3Sb2â€‰â€“â€‰xBix from first principles calculations. Journal of Applied Physics, 2019, 126, .	2.5	41
67	Insights into the design of thermoelectric Mg3Sb2 and its analogs by combining theory and experiment. Npj Computational Materials, 2019, 5, .	8.7	111
68	Promotion Mechanisms of Au Supported on TiO₂ in Thermal- and Photocatalytic Glycerol Conversion. Journal of Physical Chemistry C, 2019, 123, 19734-19741.	3.1	16
69	Enhanced thermoelectric properties of SnSe thin films grown by single-target magnetron sputtering. Journal of Materials Chemistry A, 2019, 7, 17981-17986.	10.3	43
70	General Solvothermal Synthesis Method for Complete Solubility Range Bimetallic and Highâ€Entropy Alloy Nanocatalysts. Advanced Functional Materials, 2019, 29, 1905933.	14.9	130
71	Boosting Photocatalytic Hydrogen Production by Modulating Recombination Modes and Proton Adsorption Energy. Journal of Physical Chemistry Letters, 2019, 10, 5381-5386.	4.6	15
72	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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73	Magnetic correlations and structure in bixbyite across the spin-glass transition. Physical Review B, 2019, 100, .	3.2	10
74	Transport properties and crystal structure of layered LaSb2. Journal of Applied Physics, 2019, 125, .	2.5	5
75	Thermal stability of p-type Ag-doped Mg₃Sb₂ thermoelectric materials investigated by powder X-ray diffraction. Physical Chemistry Chemical Physics, 2019, 21, 4295-4305.	2.8	25
76	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. Angewandte Chemie, 2019, 131, 10361-10365.	2.0	5
77	Formation Mechanism of Epitaxial Palladiumâ€“Platinum Coreâ€“Shell Nanocatalysts in a Oneâ€Step Supercritical Synthesis. Advanced Functional Materials, 2019, 29, 1902214.	14.9	15
78	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. Angewandte Chemie - International Edition, 2019, 58, 10255-10259.	13.8	7
79	Orderâ€“disorder transition in nano-rutile TiO₂ anodes: a high capacity low-volume change Li-ion battery material. Nanoscale, 2019, 11, 12347-12357.	5.6	40
80	Low-Temperature Structural Phase Transitions in Thermoelectric Tetrahedrite, Cu₁₂Sb₄S₁₃, and Tennantite, Cu₁₂As₄S₁₃. Crystal Growth and Design, 2019, 19, 3979-3988.	3.0	8
81	Reconciling Crystallographic and Physical Property Measurements on Thermoelectric Lead Sulfide. Journal of the American Chemical Society, 2019, 141, 8146-8157.	13.7	20
82	Solving the disordered structure of Î²-Cu_{2â^'x}Se using the three-dimensional difference pair distribution function. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 465-473.	0.1	26
83	Lowâ€Barrier Hydrogen Bonds in Negative Thermal Expansion Material H₃[Co(CN)₆]. Chemistry - A European Journal, 2019, 25, 6814-6822.	3.3	14
84	Evolution of the Polymorph Selectivity of Titania Formation under Acidic and Low-Temperature Conditions. ACS Omega, 2019, 4, 5750-5757.	3.5	3
85	Measurement of Electric Fields Experienced by Urea Guest Molecules in the 18-Crown-6/Urea (1:5) Hostâ€“Guest Complex: An Experimental Reference Point for Electric-Field-Assisted Catalysis. Journal of the American Chemical Society, 2019, 141, 3965-3976.	13.7	35
86	Frontispiece: Electron Density Studies in Materials Research. Chemistry - A European Journal, 2019, 25, .	3.3	0
87	Accessing the rich carbon nitride materials chemistry by heat treatments of ammonium thiocyanate, NH₄SCN. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 621-633.	1.1	2
88	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
89	Resonant Plasmon-Enhanced Upconversion in Monolayers of Coreâ€“Shell Nanocrystals: Role of Shell Thickness. ACS Applied Materials & Interfaces, 2019, 11, 1209-1218.	8.0	17
90	Time-resolved grazing-incidence pair distribution functions during deposition by radio-frequency magnetron sputtering. IUCrJ, 2019, 6, 299-304.	2.2	19

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91	Three-dimensional morphology of anatase nanocrystals obtained from supercritical flow synthesis with industrial grade TiOSO₄ precursor. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 1086-1095.	1.1	4
92	Multipole electron densities and atomic displacement parameters in urea from accurate powder X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 600-609.	0.1	9
93	Real-time study of local order in thin films by grazing-incidence total scattering and pair distribution function analysis. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a99-a99.	0.1	0
94	Formation mechanism of epitaxial palladiumâ€“platinum coreâ€“shell nanocatalysts in a one-step supercritical synthesis. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e676-e676.	0.1	1
95	In situ X-ray scattering study of hydrothermal synthesis of anatase TiO2 nanoparticles from commercial precursor TiOSO4. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e643-e643.	0.1	0
96	The inversion model and its limitations for spinel ZnAl2O4: a multi-technique study. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e700-e700.	0.1	0
97	Detailed Investigation into the Asphaltene Fraction of Hydrothermal Liquefaction Derived Bio-Crude and Hydrotreated Bio-Crudes. Energy & Fuels, 2018, 32, 3579-3587.	5.1	19
98	Is SrZn₂Sb₂ a Realistic Candidate for High-Temperature Thermoelectric Applications?. Journal of Physical Chemistry C, 2018, 122, 5317-5324.	3.1	8
99	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
100	Enhanced thermoelectric performance and high-temperature thermal stability of p-type Ag-doped Î²-Zn4Sb3. Journal of Materials Chemistry A, 2018, 6, 4079-4087.	10.3	34
101	X-ray electron density investigation of chemical bonding in van der Waals materials. Nature Materials, 2018, 17, 249-252.	27.5	93
102	Rationalization of Hydrothermal Synthesis of NaNbO₃ by Rapid in Situ Time-Resolved Synchrotron X-ray Diffraction. Crystal Growth and Design, 2018, 18, 770-774.	3.0	18
103	Formation Mechanisms of Nanocrystalline MnO₂ Polymorphs under Hydrothermal Conditions. Crystal Growth and Design, 2018, 18, 827-838.	3.0	54
104	Probing the accuracy and precision of Hirshfeld atom refinement with HARt interfaced with Olex2. IUCrJ, 2018, 5, 32-44.	2.2	74
105	A Helium-Surface Interaction Potential of Bi2Te3(111) from Ultrahigh-Resolution Spin-Echo Measurements. Surface Science, 2018, 678, 25-31.	1.9	12
106	Role of vacancies in the high-temperature pseudodisplacive phase transition in GeTe. Physical Review B, 2018, 97, .	3.2	50
107	Pitfalls and reproducibility ofin situsynchrotron powder X-ray diffraction studies of solvothermal nanoparticle formation. Journal of Applied Crystallography, 2018, 51, 526-540.	4.5	26
108	Is RuAs2 a candidate for high temperature thermoelectric applications?. Physical Chemistry Chemical Physics, 2018, 20, 9930-9937.	2.8	3

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109	Thermoelectric properties of Cu₂Se_{1â^'x}Te_x solid solutions. Journal of Materials Chemistry A, 2018, 6, 6977-6986.	10.3	70
110	Hydrothermal Liquefaction of Enzymatic Hydrolysis Lignin: Biomass Pretreatment Severity Affects Lignin Valorization. ACS Sustainable Chemistry and Engineering, 2018, 6, 5940-5949.	6.7	39
111	Functionally Graded (PbTe)_{1â€“x}(SnTe)_x Thermoelectrics. Chemistry of Materials, 2018, 30, 280-287.	6.7	17
112	High Performance Microbatteries for Integrated Power via Nanoimprinting of 3-D Electrodes. , 2018, , .		0
113	Chemical bonding origin of the unexpected isotropic physical properties in thermoelectric Mg3Sb2 andÂrelated materials. Nature Communications, 2018, 9, 4716.	12.8	102
114	Energy Harvesting from a Thermoelectric Zinc Antimonide Thin Film under Steady and Unsteady Operating Conditions. Materials, 2018, 11, 2365.	2.9	3
115	Operando powder X-ray diffraction study of P2-Na_xNi_{0.3}Mn_{0.7}O₂ cathode material during electrochemical cycling. Journal of Applied Crystallography, 2018, 51, 1304-1310.	4.5	6
116	Alkali Counterions Impact Crystallization Kinetics of Apatite Nanocrystals from Amorphous Calcium Phosphate in Water at High pH. Crystal Growth and Design, 2018, 18, 6723-6728.	3.0	13
117	Exploration of Phase Compositions, Crystal Structures, and Electrochemical Properties of NaxFeyMn1â€“yO2 Sodium Ion Battery Materials. Chemistry of Materials, 2018, 30, 6636-6645.	6.7	15
118	Structural Evolution during Lithium- and Magnesium-Ion Intercalation in Vanadium Oxide Nanotube Electrodes for Battery Applications. ACS Applied Nano Materials, 2018, 1, 5071-5082.	5.0	12
119	Solvothermal flow synthesis of zinc phosphate pigment. Dalton Transactions, 2018, 47, 9136-9142.	3.3	5
120	Maximum Entropy Method Visualization of Disorder and Ion Migration in Thermoelectric Cu_{2â€Îˊ}Se. Advanced Theory and Simulations, 2018, 1, 1800068.	2.8	6
121	Nanoscale surface dynamics of Bi₂Te₃(111): observation of a prominent surface acoustic wave and the role of van der Waals interactions. Nanoscale, 2018, 10, 14627-14636.	5.6	27
122	High-power lithium-ion microbatteries from imprinted 3D electrodes of sub-10â€¯nm LiMn2O4/Li4Ti5O12 nanocrystals and a copolymer gel electrolyte. Nano Energy, 2018, 52, 431-440.	16.0	37
123	Thermal stability of Mg₃Sb_{1.475}Bi_{0.475}Te_{0.05} high performance n-type thermoelectric investigated through powder X-ray diffraction and pair distribution function analysis. Journal of Materials Chemistry A, 2018, 6, 17171-17176.	10.3	39
124	Model-free reconstruction of magnetic correlations in frustrated magnets. IUCrJ, 2018, 5, 410-416.	2.2	17
125	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. Nature Communications, 2017, 8, 14074.	12.8	53
126	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

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127	Reorientation of the diagonal double-stripe spin structure at Fe1+yTe bulk and thin-film surfaces. Nature Communications, 2017, 8, 13939.	12.8	24
128	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
129	Lowâ€Temperature Anharmonicity in Cesium Chloride (CsCl). Angewandte Chemie, 2017, 129, 3679-3683.	2.0	5
130	Lowâ€Temperature Anharmonicity in Cesium Chloride (CsCl). Angewandte Chemie - International Edition, 2017, 56, 3625-3629.	13.8	19
131	Catalytic hydrotreatment of bio-crude produced from the hydrothermal liquefaction of aspen wood: a catalyst screening and parameter optimization study. Sustainable Energy and Fuels, 2017, 1, 832-841.	4.9	45
132	Unraveling the spin structure of unoccupied states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:m Physical Review B, 2017, 95, .	3.7	15
133	Neutron and X-ray investigations of the Jahnâ€Teller switch in partially deuterated ammonium copper Tutton salt, (NH₄)₂[Cu(H₂O)₆](SO₄)₂. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 87-93.	1.1	3
134	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
135	Formation mechanism and growth of <scp>MN</scp>bO₃, M=K, Na by inÂsitu Xâ€ray diffraction. Journal of the American Ceramic Society, 2017, 100, 3835-3842.	3.8	20
136	Highâ€Temperature Crystal Structure and Chemical Bonding in Thermoelectric Germanium Selenide (GeSe). Chemistry - A European Journal, 2017, 23, 6888-6895.	3.3	36
137	In Situ PDF Study of the Nucleation and Growth of Intermetallic PtPb Nanocrystals. ChemNanoMat, 2017, 3, 472-478.	2.8	19
138	Intermolecular Interaction Energies in Hydroquinone Clathrates at High Pressure. Crystal Growth and Design, 2017, 17, 3834-3846.	3.0	21
139	Products of hydrothermal treatment of lignin and the importance of ortho-directed repolymerization reactions. Journal of Analytical and Applied Pyrolysis, 2017, 126, 371-379.	5.5	21
140	Revealing the slow decomposition kinetics of type-I clathrate Ba₈Ga₁₆Ge₃₀. Physical Chemistry Chemical Physics, 2017, 19, 15734-15744.	2.8	15
141	Crystal structure across the Î² to Î± phase transition in thermoelectric Cu_{2â”’x}Se. IUCrJ, 2017, 4, 476-485.	2.2	65
142	Variable-temperature structural studies on valence tautomerism in cobalt bis(dioxolene) molecular complexes. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 304-312.	1.1	4
143	Supercritical Flow Synthesis of Pt_{1â€“x}Ru_x Nanoparticles: Comparative Phase Diagram Study of Nanostructure versus Bulk. Chemistry of Materials, 2017, 29, 3265-3273.	6.7	9
144	Structural stability and thermoelectric properties of cation- and anion-doped Mg₂Si_{0.4}Sn_{0.6}. Inorganic Chemistry Frontiers, 2017, 4, 456-467.	6.0	13

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145	Cu₈GeSe₆-based thermoelectric materials with an argyrodite structure. Journal of Materials Chemistry C, 2017, 5, 943-952.	5.5	93
146	In operando observation of sodium ion diffusion in a layered sodium transition metal oxide cathode material, P2 Na_xCo_{0.7}Mn_{0.3}O₂. Chemical Communications, 2017, 53, 1160-1163.	4.1	13
147	Accurate charge densities from powder X-ray diffraction â€“ a new version of the Aarhus vacuum imaging-plate diffractometer. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 521-530.	1.1	8
148	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
149	Tailoring band gap and thermal diffusivity of nanostructured phase-pure ZnAl 2 O 4 by direct spark plasma sintering synthesis. Journal of Solid State Chemistry, 2017, 256, 45-52.	2.9	11
150	Experimental Investigation of Zinc Antimonide Thin Film Thermoelectric Element over Wide Range of Operating Conditions. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700301.	1.8	7
151	Investigation of the precipitation of Na2SO4 in supercritical water. Chemical Engineering Science, 2017, 174, 268-276.	3.8	31
152	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
153	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu₂Se_{1â€“x}S_x Liquid-like Materials. Chemistry of Materials, 2017, 29, 6367-6377.	6.7	179
154	Redoxâ€Driven Migration of Copper Ions in the Cuâ€CHA Zeolite as Shown by the Inâ€...Situ PXRD/XANES Technique. Angewandte Chemie, 2017, 129, 10503-10508.	2.0	21
155	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
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