

Bo Brummerstedt Iversen

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.

520
papers

18,151
citations

67
h-index

106
g-index

577
ext. papers

20,192
ext. citations

6.3
avg, IF

6.95
L-index

#	Paper	IF	Citations
520	Effects of Voigt diffraction peak profiles on the pair distribution function.. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2022 , 78, 10-20	1.7	
519	Synthesis and structural characterization of Al ₂ O ₃ nanoparticles: Towards 3D optically stimulated luminescence dosimetry. <i>Journal of Physics: Conference Series</i> , 2022 , 2167, 012023	0.3	1
518	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry.. <i>Nano Letters</i> , 2022 ,	11.5	3
517	Direct observation of one-dimensional disordered diffusion channel in a chain-like thermoelectric with ultralow thermal conductivity. <i>Nature Communications</i> , 2021 , 12, 6709	17.4	4
516	Pair distribution function and Ga NMR study of aqueous Ga complexes. <i>Chemical Science</i> , 2021 , 12, 14420-14431	9.1	3
515	On single-crystal total scattering data reduction and correction protocols for analysis in direct space. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021 , 77, 611-636	1.7	0
514	Bandgap Tuning in Molecular Alloy Crystals Formed by Weak Chalcogen Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3059-3065	6.4	2
513	Synchrotron total-scattering data applicable to dual-space structural analysis. <i>IUCrJ</i> , 2021 , 8, 387-394	4.7	4
512	Structural evolution in thermoelectric zinc antimonide thin films studied by X-ray scattering techniques. <i>IUCrJ</i> , 2021 , 8, 444-454	4.7	0
511	Exciting Opportunities for Solid-State Mo NMR Studies of MoS Nano-structures in Materials Research from Low to Ultra-high Magnetic Field (35.2 T). <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7824-7838	3.8	1
510	Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. <i>Joule</i> , 2021 , 5, 1183-1195	27.8	9
509	Insights into Host-Guest Binding in Hydroquinone Clathrates: Single-Crystal X-ray and Neutron Diffraction, and Complementary Computational Studies on the Hydroquinone-CO ₂ Clathrate. <i>Crystal Growth and Design</i> , 2021 , 21, 3477-3486	3.5	1
508	Tuneable local order in thermoelectric crystals. <i>IUCrJ</i> , 2021 , 8, 695-702	4.7	2
507	Anharmonicity and correlated dynamics of PbTe and PbS studied by single crystal x-ray scattering. <i>Physical Review B</i> , 2021 , 103,	3.3	3
506	Chemical Bonding Origin of the Thermoelectric Power Factor in Half-Heusler Semiconductors. <i>Chemistry of Materials</i> , 2021 , 33, 5308-5316	9.6	6
505	Operando structural investigations of thermoelectric materials. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1189-1197	3.8	1
504	Phase control for indium oxide nanoparticles. <i>Nanoscale</i> , 2021 , 13, 4038-4050	7.7	4

503	Strategies for synthesis of Prussian blue analogues. <i>Royal Society Open Science</i> , 2021 , 8, 201779	3.3	17
502	Multipole electron densities and structural parameters from synchrotron powder X-ray diffraction data obtained with a MYTHEN detector system (OHGI). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021 , 77, 85-95	1.7	5
501	Tailoring the stoichiometry of CN nanosheets under electron beam irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4747-4756	3.6	1
500	Locating Fe dopants in catalytic PtPd nanoparticles on Alumina using X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2021 , 11, 1961-1964	5.5	
499	Unravelling the complex formation mechanism of HfO nanocrystals using in situ pair distribution function analysis. <i>Nanoscale</i> , 2021 , 13, 12711-12719	7.7	1
498	Sample dependent performance of aqueous copper hexacyanoferrate/zinc batteries. <i>Materials Advances</i> , 2021 , 2, 2036-2044	3.3	2
497	Improved Thermoelectric Properties of N-Type MgSb through Cation-Site Doping with Gd or Ho. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10964-10971	9.5	10
496	Breaking thermoelectric performance limits. <i>Nature Materials</i> , 2021 , 20, 1309-1310	27	8
495	Stability and Thermoelectric Properties of ZnSb with TiO Nanoparticle Inclusions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45708-45716	9.5	1
494	Tuning of bandgaps and emission properties of light-emitting diode materials through homogeneous alloying in molecular crystals. <i>Chemical Science</i> , 2021 , 12, 12391-12399	9.4	0
493	Maximizing the Catalytically Active {001} Facets on Anatase Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 5134-5141	9.6	6
492	Why Does BiWO Visible-Light Photocatalyst Always Form as Nanoplatelets?. <i>Inorganic Chemistry</i> , 2020 , 59, 9364-9373	5.1	4
491	Accurate high-resolution single-crystal diffraction data from a Pilatus3 X CdTe detector. <i>Journal of Applied Crystallography</i> , 2020 , 53, 635-649	3.8	11
490	Atomic Scale Design of Spinel ZnAl ₂ O ₄ Nanocrystal Synthesis. <i>Crystal Growth and Design</i> , 2020 , 20, 1789-1799	3.5	9
489	Mapping the redox chemistry of common solvents in solvothermal synthesis through in situ X-ray diffraction. <i>Nanoscale</i> , 2020 , 12, 8511-8518	7.7	4
488	Single-Crystal High-Pressure X-ray Diffraction Study of Host Structure Compression in Clathrates of Dianion Compound. <i>Crystal Growth and Design</i> , 2020 , 20, 4092-4099	3.5	2
487	Chemical Bonding in Colossal Thermopower FeSb. <i>Chemistry - A European Journal</i> , 2020 , 26, 8651-8662	4.8	1
486	X-ray scattering study of thermoelectric ZnSb. <i>IUCrJ</i> , 2020 , 7, 100-104	4.7	5

485	Expression and interactions of stereochemically active lone pairs and their relation to structural distortions and thermal conductivity. <i>IUCrJ</i> , 2020 , 7, 480-489	4.7	11
484	A simple model for vacancy order and disorder in defective half-Heusler systems. <i>IUCrJ</i> , 2020 , 7, 673-680	4.7	14
483	Continuous flow hydrothermal synthesis of rutile SnO ₂ nanoparticles: Exploration of pH and temperature effects. <i>Journal of Supercritical Fluids</i> , 2020 , 166, 105029	4.2	10
482	Microstructure and Thermoelectric Properties of Zn _{1-x} Ag _x Sb Thin Films Grown by Single-Target Magnetron Sputtering. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2055-2062	6.1	9
481	Rapid One-Step Synthesis and Compaction of High-Performance n-Type Mg ₃ Sb ₂ Thermoelectrics. <i>Angewandte Chemie</i> , 2020 , 132, 4308-4312	3.6	2
480	Continuous flow hydrothermal synthesis of phase pure rutile TiO nanoparticles with a rod-like morphology. <i>Nanoscale</i> , 2020 , 12, 2695-2702	7.7	6
479	Rapid One-Step Synthesis and Compaction of High-Performance n-Type Mg Sb Thermoelectrics. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4278-4282	16.4	17
478	Group 13 Precursor Structures and Their Effect on Oxide Nanocrystal Formation. <i>Chemistry - A European Journal</i> , 2020 , 26, 1022-1026	4.8	7
477	Probing the validity of the spinel inversion model: a combined SPXRD, PDF, EXAFS and NMR study of ZnAlO. <i>Dalton Transactions</i> , 2020 , 49, 13449-13461	4.3	5
476	Selective Catalytic Reduction of NO Using Phase-Pure Anatase, Rutile, and Brookite TiO Nanocrystals. <i>Inorganic Chemistry</i> , 2020 , 59, 15324-15334	5.1	6
475	Facile synthesis of brookite TiO nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 15084-15087	5.8	6
474	Probing Efficient N-Type Lanthanide Dopants for MgSb Thermoelectrics. <i>Advanced Science</i> , 2020 , 7, 2002867	23.67	9
473	Temperature dependence of dynamic dipole formation in PbTe. <i>Physical Review B</i> , 2020 , 102,	3.3	6
472	Zinc antimonide thin film based flexible thermoelectric module. <i>Materials Letters</i> , 2020 , 280, 128582	3.3	2
471	Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22357-22365	3.8	3
470	Autocatalytic Formation of High-Entropy Alloy Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 22104-22108	13.08	5
469	Autocatalytic Formation of High-Entropy Alloy Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21920-21924	16.4	16
468	General Solvothermal Synthesis Method for Complete Solubility Range Bimetallic and High-Entropy Alloy Nanocatalysts. <i>Advanced Functional Materials</i> , 2019 , 29, 1905933	15.6	57

467	Boosting Photocatalytic Hydrogen Production by Modulating Recombination Modes and Proton Adsorption Energy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5381-5386	6.4	8
466	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16202-16207	16.4	67
465	Magnetic correlations and structure in bixbyite across the spin-glass transition. <i>Physical Review B</i> , 2019 , 100,	3.3	6
464	Transport properties and crystal structure of layered LaSb ₂ . <i>Journal of Applied Physics</i> , 2019 , 125, 045110.5	10.5	1
463	Thermal stability of p-type Ag-doped MgSb thermoelectric materials investigated by powder X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4295-4305	3.6	16
462	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. <i>Angewandte Chemie</i> , 2019 , 131, 10361-10365	3.6	3
461	Formation Mechanism of Epitaxial Palladium-Platinum Core-Shell Nanocatalysts in a One-Step Supercritical Synthesis. <i>Advanced Functional Materials</i> , 2019 , 29, 1902214	15.6	7
460	Investigation of an Unusual Crystal Habit of Hydrochlorothiazide Reveals Large Polar Enantiopure Domains and a Possible Crystal Nucleation Mechanism. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10255-10259	16.4	6
459	Order-disorder transition in nano-rutile TiO ₂ anodes: a high capacity low-volume change Li-ion battery material. <i>Nanoscale</i> , 2019 , 11, 12347-12357	7.7	26
458	Low-Temperature Structural Phase Transitions in Thermoelectric Tetrahedrite, Cu ₁₂ Sb ₄ As ₁₃ , and Tennantite, Cu ₁₂ As ₄ As ₁₃ . <i>Crystal Growth and Design</i> , 2019 , 19, 3979-3988	3.5	6
457	Reconciling Crystallographic and Physical Property Measurements on Thermoelectric Lead Sulfide. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8146-8157	16.4	12
456	Solving the disordered structure of ECuSe using the three-dimensional difference pair distribution function. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 465-473	1.7	18
455	Low-Barrier Hydrogen Bonds in Negative Thermal Expansion Material H [Co(CN)] ₂ . <i>Chemistry - A European Journal</i> , 2019 , 25, 6814-6822	4.8	8
454	Evolution of the Polymorph Selectivity of Titania Formation under Acidic and Low-Temperature Conditions. <i>ACS Omega</i> , 2019 , 4, 5750-5757	3.9	1
453	Electron Density Studies in Materials Research. <i>Chemistry - A European Journal</i> , 2019 , 25, 15010-15029	4.8	16
452	Influence of Phase Separation and Spinodal Decomposition on Microstructure of Mg ₂ Si _{1-x} S _x Alloys. <i>Crystal Growth and Design</i> , 2019 , 19, 4927-4933	3.5	6
451	Fermi surface complexity, effective mass, and conduction band alignment in n-type thermoelectric Mg ₃ Sb ₂ δ -Bi _x from first principles calculations. <i>Journal of Applied Physics</i> , 2019 , 126, 085104	2.5	20
450	Insights into the design of thermoelectric Mg ₃ Sb ₂ and its analogs by combining theory and experiment. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	52

449	Promotion Mechanisms of Au Supported on TiO ₂ in Thermal- and Photocatalytic Glycerol Conversion. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19734-19741	3.8	9
448	Enhanced thermoelectric properties of SnSe thin films grown by single-target magnetron sputtering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17981-17986	13	18
447	Time-resolved grazing-incidence pair distribution functions during deposition by radio-frequency magnetron sputtering. <i>IUCrJ</i> , 2019 , 6, 299-304	4.7	14
446	Three-dimensional morphology of anatase nanocrystals obtained from supercritical flow synthesis with industrial grade TiOSO precursor. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 1086-1095	1.8	4
445	Multipole electron densities and atomic displacement parameters in urea from accurate powder X-ray diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 600-609	1.7	6
444	Measurement of Electric Fields Experienced by Urea Guest Molecules in the 18-Crown-6/Urea (1:5) Host-Guest Complex: An Experimental Reference Point for Electric-Field-Assisted Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3965-3976	16.4	23
443	Accessing the rich carbon nitride materials chemistry by heat treatments of ammonium thiocyanate, NH ₄ SCN. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 621-633	1.8	1
442	The Chemistry of Nucleation: In Situ Pair Distribution Function Analysis of Secondary Building Units During UiO-66 MOF Formation. <i>Chemistry - A European Journal</i> , 2019 , 25, 2051-2058	4.8	34
441	Resonant Plasmon-Enhanced Upconversion in Monolayers of Core-Shell Nanocrystals: Role of Shell Thickness. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1209-1218	9.5	17
440	Detailed Investigation into the Asphaltene Fraction of Hydrothermal Liquefaction Derived Bio-Crude and Hydrotreated Bio-Crudes. <i>Energy & Fuels</i> , 2018 , 32, 3579-3587	4.1	12
439	Is SrZn ₂ Sb ₂ a Realistic Candidate for High-Temperature Thermoelectric Applications?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5317-5324	3.8	6
438	New Insight on Tuning Electrical Transport Properties via Chalcogen Doping in n-type Mg ₃ Sb ₂ -Based Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1702776	21.8	56
437	Enhanced thermoelectric performance and high-temperature thermal stability of p-type Ag-doped Zn_4Sb_3 . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4079-4087	13	24
436	X-ray electron density investigation of chemical bonding in van der Waals materials. <i>Nature Materials</i> , 2018 , 17, 249-252	27	61
435	Rationalization of Hydrothermal Synthesis of NaNbO ₃ by Rapid in Situ Time-Resolved Synchrotron X-ray Diffraction. <i>Crystal Growth and Design</i> , 2018 , 18, 770-774	3.5	15
434	Formation Mechanisms of Nanocrystalline MnO ₂ Polymorphs under Hydrothermal Conditions. <i>Crystal Growth and Design</i> , 2018 , 18, 827-838	3.5	37
433	Probing the accuracy and precision of Hirshfeld atom refinement with interfaced with. <i>IUCrJ</i> , 2018 , 5, 32-44	4.7	60
432	A Helium-Surface Interaction Potential of Bi ₂ Te ₃ (111) from Ultrahigh-Resolution Spin-Echo Measurements. <i>Surface Science</i> , 2018 , 678, 25-31	1.8	7

431	Role of vacancies in the high-temperature pseudodisplacive phase transition in GeTe. <i>Physical Review B</i> , 2018 , 97,	3.3	36
430	Pitfalls and reproducibility of in situ synchrotron powder X-ray diffraction studies of solvothermal nanoparticle formation. <i>Journal of Applied Crystallography</i> , 2018 , 51, 526-540	3.8	20
429	Is RuAs a candidate for high temperature thermoelectric applications?. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9930-9937	3.6	2
428	Thermoelectric properties of Cu ₂ Se _{1-x} Te _x solid solutions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6977-6986	13	45
427	Hydrothermal Liquefaction of Enzymatic Hydrolysis Lignin: Biomass Pretreatment Severity Affects Lignin Valorization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5940-5949	8.3	30
426	Solvothermal flow synthesis of zinc phosphate pigment. <i>Dalton Transactions</i> , 2018 , 47, 9136-9142	4.3	4
425	Maximum Entropy Method Visualization of Disorder and Ion Migration in Thermoelectric Cu ₂ -Se. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800068	3.5	4
424	Nanoscale surface dynamics of BiTe(111): observation of a prominent surface acoustic wave and the role of van der Waals interactions. <i>Nanoscale</i> , 2018 , 10, 14627-14636	7.7	24
423	High-power lithium-ion microbatteries from imprinted 3D electrodes of sub-10 nm LiMn ₂ O ₄ /Li ₄ Ti ₅ O ₁₂ nanocrystals and a copolymer gel electrolyte. <i>Nano Energy</i> , 2018 , 52, 431-440	17.1	28
422	Thermal stability of Mg ₃ Sb _{1.475} Bi _{0.475} Te _{0.05} high performance n-type thermoelectric investigated through powder X-ray diffraction and pair distribution function analysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17171-17176	13	23
421	Model-free reconstruction of magnetic correlations in frustrated magnets. <i>IUCrJ</i> , 2018 , 5, 410-416	4.7	10
420	Functionally Graded (PbTe) _{1-x} (SnTe) _x Thermoelectrics. <i>Chemistry of Materials</i> , 2018 , 30, 280-287	9.6	12
419	Chemical bonding origin of the unexpected isotropic physical properties in thermoelectric MgSb and related materials. <i>Nature Communications</i> , 2018 , 9, 4716	17.4	54
418	Energy Harvesting from a Thermoelectric Zinc Antimonide Thin Film under Steady and Unsteady Operating Conditions. <i>Materials</i> , 2018 , 11,	3.5	3
417	Operando powder X-ray diffraction study of P ₂ -Na _x Ni _{0.3} Mn _{0.7} O ₂ cathode material during electrochemical cycling. <i>Journal of Applied Crystallography</i> , 2018 , 51, 1304-1310	3.8	6
416	Alkali Counterions Impact Crystallization Kinetics of Apatite Nanocrystals from Amorphous Calcium Phosphate in Water at High pH. <i>Crystal Growth and Design</i> , 2018 , 18, 6723-6728	3.5	9
415	Exploration of Phase Compositions, Crystal Structures, and Electrochemical Properties of Na _x FeyMn _{1-x} O ₂ Sodium Ion Battery Materials. <i>Chemistry of Materials</i> , 2018 , 30, 6636-6645	9.6	7
414	Structural Evolution during Lithium- and Magnesium-Ion Intercalation in Vanadium Oxide Nanotube Electrodes for Battery Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5071-5082	5.6	6

413	Interfacial superconductivity in a bi-collinear antiferromagnetically ordered FeTe monolayer on a topological insulator. <i>Nature Communications</i> , 2017 , 8, 14074	17.4	39
412	Discovery of high-performance low-cost n-type MgSb-based thermoelectric materials with multi-valley conduction bands. <i>Nature Communications</i> , 2017 , 8, 13901	17.4	297
411	Reorientation of the diagonal double-stripe spin structure at FeTe bulk and thin-film surfaces. <i>Nature Communications</i> , 2017 , 8, 13939	17.4	20
410	Simultaneous improvement of power factor and thermal conductivity via Ag doping in p-type Mg ₃ Sb ₂ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4932-4939	13	79
409	Low-Temperature Anharmonicity in Cesium Chloride (CsCl). <i>Angewandte Chemie</i> , 2017 , 129, 3679-3683	3.6	4
408	Low-Temperature Anharmonicity in Cesium Chloride (CsCl). <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3625-3629	16.4	11
407	Catalytic hydrotreatment of bio-crude produced from the hydrothermal liquefaction of aspen wood: a catalyst screening and parameter optimization study. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 832-841	5.8	30
406	Unraveling the spin structure of unoccupied states in Bi ₂ Se ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	13
405	Neutron and X-ray investigations of the Jahn-Teller switch in partially deuterated ammonium copper Tutton salt, (NH ₄) ₂ [Cu(H ₂ O) ₆](SO ₄) ₂ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 87-93	1.8	3
404	Hydrothermal co-liquefaction of biomasses – quantitative analysis of bio-crude and aqueous phase composition. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 789-805	5.8	44
403	Formation mechanism and growth of MNbO ₃ , M=K, Na by in situ X-ray diffraction. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3835-3842	3.8	17
402	High-Temperature Crystal Structure and Chemical Bonding in Thermoelectric Germanium Selenide (GeSe). <i>Chemistry - A European Journal</i> , 2017 , 23, 6888-6895	4.8	29
401	In Situ PDF Study of the Nucleation and Growth of Intermetallic PtPb Nanocrystals. <i>ChemNanoMat</i> , 2017 , 3, 472-478	3.5	14
400	Intermolecular Interaction Energies in Hydroquinone Clathrates at High Pressure. <i>Crystal Growth and Design</i> , 2017 , 17, 3834-3846	3.5	17
399	Products of hydrothermal treatment of lignin and the importance of ortho-directed repolymerization reactions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 126, 371-379	6	15
398	Revealing the slow decomposition kinetics of type-I clathrate BaGaGe. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15734-15744	3.6	11
397	Crystal structure across the Ito II phase transition in thermoelectric Cu ₂ Se. <i>IUCrJ</i> , 2017 , 4, 476-485	4.7	44
396	Variable-temperature structural studies on valence tautomerism in cobalt bis(dioxolene) molecular complexes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 304-312	1.8	2

395	Supercritical Flow Synthesis of Pt _{1-x} Ru _x Nanoparticles: Comparative Phase Diagram Study of Nanostructure versus Bulk. <i>Chemistry of Materials</i> , 2017 , 29, 3265-3273	9.6	6
394	Structural stability and thermoelectric properties of cation- and anion-doped Mg ₂ Si _{0.4} Sn _{0.6} . <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 456-467	6.8	12
393	Cu ₈ GeSe ₆ -based thermoelectric materials with an argyrodite structure. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 943-952	7.1	60
392	In operando observation of sodium ion diffusion in a layered sodium transition metal oxide cathode material, P2 NaCoMnO. <i>Chemical Communications</i> , 2017 , 53, 1160-1163	5.8	11
391	Accurate charge densities from powder X-ray diffraction - a new version of the Aarhus vacuum imaging-plate diffractometer. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 521-530	1.8	7
390	High thermoelectric performance and low thermal conductivity in Cu ₂ S _{1/3} Se _{1/3} Te _{1/3} liquid-like materials with nanoscale mosaic structures. <i>Nano Energy</i> , 2017 , 42, 43-50	17.1	44
389	Tailoring band gap and thermal diffusivity of nanostructured phase-pure ZnAl ₂ O ₄ by direct spark plasma sintering synthesis. <i>Journal of Solid State Chemistry</i> , 2017 , 256, 45-52	3.3	7
388	Experimental Investigation of Zinc Antimonide Thin Film Thermoelectric Element over Wide Range of Operating Conditions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700301	1.6	6
387	Investigation of the precipitation of Na ₂ SO ₄ in supercritical water. <i>Chemical Engineering Science</i> , 2017 , 174, 268-276	4.4	24
386	Ultrahigh thermoelectric performance in Cu ₂ Se _{0.5} S _{0.5} liquid-like materials. <i>Materials Today Physics</i> , 2017 , 1, 14-23	8	99
385	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu ₂ Se _{1-x} S _x Liquid-like Materials. <i>Chemistry of Materials</i> , 2017 , 29, 6367-6377	9.6	115
384	Redox-Driven Migration of Copper Ions in the Cu-CHA Zeolite as Shown by the In Situ PXRD/XANES Technique. <i>Angewandte Chemie</i> , 2017 , 129, 10503-10508	3.6	19
383	Redox-Driven Migration of Copper Ions in the Cu-CHA Zeolite as Shown by the In Situ PXRD/XANES Technique. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10367-10372	16.4	62
382	Electron-phonon coupling and surface Debye temperature of Bi ₂ Te ₃ (111) from helium atom scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	30
381	Extremely low thermal conductivity and high thermoelectric performance in liquid-like Cu ₂ Se _{1-x} S _x polymorphic materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18148-18156	13	56
380	Elaborating the Crystal Structures of MgAgSb Thermoelectric Compound: Polymorphs and Atomic Disorders. <i>Chemistry of Materials</i> , 2017 , 29, 6378-6388	9.6	15
379	Assessment of agricultural crops and natural vegetation in Scotland for energy production by anaerobic digestion and hydrothermal liquefaction. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 467-477	2.3	7
378	Insight into Nucleation and Growth of Bi _{2-x} Sb _x Te ₃ (x = 0) Nanoplatelets in Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2017 , 29, 5070-5079	9.6	7

377	High-Performance Low-Cost n-Type Se-Doped Mg ₃ Sb ₂ -Based Zintl Compounds for Thermoelectric Application. <i>Chemistry of Materials</i> , 2017 , 29, 5371-5383	9.6	108
376	Effect of Thermal Cycling on Zinc Antimonide Thin Film Thermoelectric Characteristics. <i>Energy Procedia</i> , 2017 , 142, 519-524	2.3	7
375	Multi-temperature structure of thermoelectric Mg ₂ Si and Mg ₂ Sn. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 1158-1163	1.8	8
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2	Thermoelectric performance of large single crystal clathrate $Ba_{8/}Ga_{16/}Ge_{30/}$		2
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