

Ctirad Uher

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.

496 papers	38,821 citations	92 h-index	184 g-index
511 ext. papers	43,383 ext. citations	8.8 avg, IF	7.28 L-index

#	Paper	IF	Citations
496	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. <i>Energy and Environmental Science</i> , 2022 , 15, 368-375	35.4	12
495	A comprehensive review on Bi ₂ Te ₃ -based thin films: Thermoelectrics and beyond 2022 , 1, 88-115		17
494	The role of Ge vacancies and Sb doping in GeTe: a comparative study of Thermoelectric Transport Properties in Sb _x Ge _{1-1.5x} Te and Sb _x Ge _{1-x} Te Compounds. <i>Materials Today Physics</i> , 2022 , 100682	8	1
493	Fast ion transport for synthesis and stabilization of β -ZnSb. <i>Nature Communications</i> , 2021 , 12, 6077	17.4	0
492	All-Optical Probe of Three-Dimensional Topological Insulators Based on High-Harmonic Generation by Circularly Polarized Laser Fields. <i>Nano Letters</i> , 2021 , 21, 8970-8978	11.5	8
491	An Instant Change of Elastic Lattice Strain during Cu ₂ Se Phase Transition: Origin of Abnormal Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2021 , 31, 2100431	15.6	9
490	Identifying the Manipulation of Individual Atomic-Scale Defects for Boosting Thermoelectric Performances in Artificially Controlled BiTe Films. <i>ACS Nano</i> , 2021 , 15, 5706-5714	16.7	12
489	Ultralow Thermal Conductivity in Diamondoid Structures and High Thermoelectric Performance in (CuAg)(InGa)Te. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5978-5989	16.4	15
488	New criteria for the applicability of combustion synthesis: The investigation of thermodynamic and kinetic processes for binary Chemical Reactions. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158465	5.7	1
487	Measurements of nonequilibrium interatomic forces using time-domain x-ray scattering. <i>Physical Review B</i> , 2021 , 103,	3.3	1
486	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie</i> , 2021 , 133, 272-277	3.6	6
485	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 268-273	16.4	11
484	Achieving superior performance in thermoelectric Bi _{0.4} Sb _{1.6} Te _{3.72} by enhancing texture and inducing high-density line defects. <i>Science China Materials</i> , 2021 , 64, 1507-1520	7.1	3
483	Dissociation of GaSb in n-Type PbTe: off-Centered Gallium Atom and Weak Electron-Phonon Coupling Provide High Thermoelectric Performance. <i>Chemistry of Materials</i> , 2021 , 33, 1842-1851	9.6	11
482	Atomic mechanism of ionic confinement in the thermoelectric Cu ₂ Se based on a low-cost electric-current method. <i>Cell Reports Physical Science</i> , 2021 , 2, 100345	6.1	3
481	The origin of ultra-low thermal conductivity of the Bi ₂ Te ₂ S compound and boosting the thermoelectric performance via carrier engineering. <i>Materials Today Physics</i> , 2021 , 20, 100472	8	3
480	Ultralow Thermal Conductivity, Multiband Electronic Structure and High Thermoelectric Figure of Merit in TlCuSe. <i>Advanced Materials</i> , 2021 , 33, e2104908	24	5

479	High carrier mobility and ultralow thermal conductivity in the synthetic layered superlattice Sn ₄ Bi ₁₀ Se ₁₉ . <i>Materials Advances</i> , 2021 , 2, 2382-2390	3.3	4
478	Electroresistance in multipolar antiferroelectric CuSe semiconductor. <i>Nature Communications</i> , 2021 , 12, 7207	17.4	1
477	Nanoscale Engineering of Polymorphism in CuSe-Based Composites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31601-31611	9.5	3
476	Contrasting SnTe-NaSbTe and SnTe-NaBiTe Thermoelectric Alloys: High Performance Facilitated by Increased Cation Vacancies and Lattice Softening. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12524-12535	16.4	21
475	Anomalously Large Seebeck Coefficient of CuFeS ₂ Derives from Large Asymmetry in the Energy Dependence of Carrier Relaxation Time. <i>Chemistry of Materials</i> , 2020 , 32, 2639-2646	9.6	16
474	Understanding the thermally activated charge transport in NaPbmSbQm+2 (Q = S, Se, Te) thermoelectrics: weak dielectric screening leads to grain boundary dominated charge carrier scattering. <i>Energy and Environmental Science</i> , 2020 , 13, 1509-1518	35.4	40
473	Vacancy-Based Defect Regulation for High Thermoelectric Performance in GeSbTe Compounds. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19664-19673	9.5	24
472	Quasilinear dispersion in electronic band structure and high Seebeck coefficient in CuFeS ₂ -based thermoelectric materials. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
471	Discordant nature of Cd in PbSe: off-centering and core-shell nanoscale CdSe precipitates lead to high thermoelectric performance. <i>Energy and Environmental Science</i> , 2020 , 13, 200-211	35.4	36
470	Discordant nature of Cd in GeTe enhances phonon scattering and improves band convergence for high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1193-1204	13	49
469	Impurity states in Mo _{1-x} MxSe ₂ compounds doped with group VB elements and their electronic and thermal transport properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 619-629	7.1	7
468	Thickness-dependent electronic transport induced by in situ transformation of point defects in MBE-grown Bi ₂ Te ₃ thin films. <i>Applied Physics Letters</i> , 2020 , 117, 153902	3.4	11
467	Ultrafine Interwoven Dendritic Cu ₂ Se/CuFeSe ₂ Composites with Enhanced Thermoelectric Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9133-9142	6.1	6
466	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu Se Composites. <i>Advanced Materials</i> , 2020 , 32, e2003730	24	49
465	Origin of the Distinct Thermoelectric Transport Properties of Chalcopyrite ABTe ₂ (A = Cu, Ag; B = Ga, In). <i>Advanced Functional Materials</i> , 2020 , 30, 2005861	15.6	21
464	Lone-Electron-Pair Micelles Strengthen Bond Anharmonicity in MnPbSbS Complex Sulfosalt Leading to Ultralow Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44991-44997	9.5	6
463	Ultralow thermal conductivity in diamondoid lattices: high thermoelectric performance in chalcopyrite Cu _{0.8+y} Ag _{0.2} In _{1-y} Te ₂ . <i>Energy and Environmental Science</i> , 2020 , 13, 3693-3705	35.4	19
462	CuAlSe Inclusions Trigger Dynamic Cu Ion Depletion from the CuSe Matrix Enabling High Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58018-58027	9.5	1

461	High Figure of Merit in Gallium-Doped Nanostructured n-Type PbTe-GeTe with Midgap States. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16169-16177	16.4	44
460	Fine-tuning the solid-state ordering and thermoelectric performance of regioregular P3HT analogues by sequential oxygen-substitution of carbon atoms along the alkyl side chains. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2333-2344	7.1	11
459	Ultralow thermal conductivity in graphene-silica porous ceramics with a special saucer structure of graphene aerogels. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1574-1584	13	8
458	Origin of Intrinsically Low Thermal Conductivity in Tl ₂ SnCu ₂ Te Thermoelectric Material: Correlations between Lattice Dynamics and Thermal Transport. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10905-10914	16.4	29
457	Synergistically Improved Electronic and Thermal Transport Properties in Nb-Doped NbMoSeTe Solid Solutions Due to Alloy Phonon Scattering and Increased Valley Degeneracy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26069-26081	9.5	9
456	Ultralow thermal conductivity of BaAg ₂ SnSe ₄ and the effect of doping by Ga and In. <i>Materials Today Physics</i> , 2019 , 9, 100098	8	14
455	Fracture structure and thermoelectric enhancement of CuSe with substitution of nanostructured AgSe. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13569-13577	3.6	12
454	Charge Disproportionation Triggers Bipolar Doping in FeSbSn Se Ferromagnetic Semiconductors, Enabling a Temperature-Induced Lifshitz Transition. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9249-9261	16.4	2
453	Engineering Magnetic Transitions in Fe _{1-x} Sn _x Bi ₂ Se ₄ n-Type Ferromagnetic Semiconductors through Chemical Manipulation of Spatial Separation between Magnetic Centers. <i>Chemistry of Materials</i> , 2019 , 31, 3507-3518	9.6	2
452	Thermoelectric and thermal stability improvements in Nano-Cu ₂ Se included Ag ₂ Se. <i>Journal of Solid State Chemistry</i> , 2019 , 273, 122-127	3.3	18
451	Optimizing the average power factor of p-type (Na, Ag) co-doped polycrystalline SnSe. <i>RSC Advances</i> , 2019 , 9, 7115-7122	3.7	12
450	Charge-carrier behavior in Ba-, Sr- and Yb-filled CoSb ₃ : NMR and transport studies. <i>Physical Review B</i> , 2019 , 99,	3.3	2
449	Enhancement of Thermoelectric Performance for n-Type PbS through Synergy of Gap State and Fermi Level Pinning. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6403-6412	16.4	48
448	Coherent magnetic nanoinclusions induce charge localization in half-Heusler alloys leading to high-T _c ferromagnetism and enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11095-11103	13	14
447	Enhanced Density-of-States Effective Mass and Strained Endotaxial Nanostructures in Sb-Doped PbCdTe Thermoelectric Alloys. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9197-9204	9.5	46
446	3D Printing of highly textured bulk thermoelectric materials: mechanically robust BiSbTe alloys with superior performance. <i>Energy and Environmental Science</i> , 2019 , 12, 3106-3117	35.4	64
445	Ultralow Thermal Conductivity and High-Temperature Thermoelectric Performance in n-Type K ₂ Sb ₈ Se ₁₄ . <i>Chemistry of Materials</i> , 2019 , 31, 5943-5952	9.6	15
444	High Thermoelectric Performance in PbSe _{1-x} Na _x SbSe ₂ Alloys from Valence Band Convergence and Low Thermal Conductivity. <i>Advanced Energy Materials</i> , 2019 , 9, 1901377	21.8	42

443	All-Scale Hierarchically Structured p-Type PbSe Alloys with High Thermoelectric Performance Enabled by Improved Band Degeneracy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4480-4486	16.4	62
442	Mictomagnetic full-Heusler nanoprecipitates in (Ti, Zr, Hf)NiFe _x Sn half-Heusler composites. <i>Materials Today Physics</i> , 2019 , 11, 100155	8	7
441	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. <i>Energy and Environmental Science</i> , 2019 , 12, 3390-3399	35.4	77
440	Modification of Bulk Heterojunction and Cl Doping for High-Performance Thermoelectric SnSe/SnSe Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15793-15802	9.5	28
439	Fabrication and Thermoelectric Properties of n-Type CoSbTe Using Selective Laser Melting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13669-13674	9.5	25
438	Rapid fabrication and thermoelectric performance of SnTe via non-equilibrium laser 3D printing. <i>Rare Metals</i> , 2018 , 37, 300-307	5.5	7
437	Low temperature thermoelectric properties of p-type doped single-crystalline SnSe. <i>Applied Physics Letters</i> , 2018 , 112, 142102	3.4	19
436	Sodium-Doped Tin Sulfide Single Crystal: A Nontoxic Earth-Abundant Material with High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800087	21.8	54
435	High Thermoelectric Performance in SnTe _{1-x} AgSbTe ₂ Alloys from Lattice Softening, Giant Phonon-Vacancy Scattering, and Valence Band Convergence. <i>ACS Energy Letters</i> , 2018 , 3, 705-712	20.1	90
434	Discovery of a magnetic conductive interface in PbZrTiO ₃ /SrTiO ₃ heterostructures. <i>Nature Communications</i> , 2018 , 9, 685	17.4	12
433	Rhombohedral to Cubic Conversion of GeTe via MnTe Alloying Leads to Ultralow Thermal Conductivity, Electronic Band Convergence, and High Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2673-2686	16.4	206
432	Structure and thermoelectric properties of 2D Cr ₂ Se ₃ -S ₃ solid solutions. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 836-846	7.1	9
431	Preparation and properties of ultra-low density proppants for use in hydraulic fracturing. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 163, 100-109	4.4	12
430	Surface phonons in the topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ . <i>Solid State Communications</i> , 2018 , 271, 1-5	1.6	7
429	High thermoelectric performance in Bi _{0.46} Sb _{1.54} Te ₃ nanostructured with ZnTe. <i>Energy and Environmental Science</i> , 2018 , 11, 1520-1535	35.4	155
428	Chemical manipulation of phase stability and electronic behavior in Cu _{4-x} Ag _x Se ₂ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6997-7004	13	8
427	Engineering Temperature-Dependent Carrier Concentration in Bulk Composite Materials via Temperature-Dependent Fermi Level Offset. <i>Advanced Energy Materials</i> , 2018 , 8, 1701623	21.8	15
426	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018 , 9, 2910	17.4	97

425	Understanding the Intrinsic Carrier Transport in Highly Oriented Poly(3-hexylthiophene): Effect of Side Chain Regioregularity. <i>Polymers</i> , 2018 , 10,	4.5	12
424	Soft phonon modes from off-center Ge atoms lead to ultralow thermal conductivity and superior thermoelectric performance in n-type PbSe _{1-x} Te _x . <i>Energy and Environmental Science</i> , 2018 , 11, 3220-3230	35.4	75
423	Unconventional large linear magnetoresistance in Cu ₂ Te. <i>AIP Advances</i> , 2018 , 8, 055135	1.5	2
422	Insights on the Synthesis, Crystal and Electronic Structures, and Optical and Thermoelectric Properties of SrSb HfSe Orthorhombic Perovskite. <i>Inorganic Chemistry</i> , 2018 , 57, 7402-7411	5.1	10
421	High Thermoelectric Performance in Supersaturated Solid Solutions and Nanostructured n-Type PbTe _{1-x} Te _x . <i>Advanced Functional Materials</i> , 2018 , 28, 1801617	15.6	69
420	Finite element analysis of temperature and stress fields during the selective laser melting process of thermoelectric SnTe. <i>Journal of Materials Processing Technology</i> , 2018 , 261, 74-85	5.3	38
419	Interpreting the Combustion Process for High-Performance ZrNiSn Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 864-872	9.5	19
418	Ultra-high average figure of merit in synergistic band engineered Sn _x Na _{1-x} Se _{0.95} O _{0.1} single crystals. <i>Materials Today</i> , 2018 , 21, 501-507	21.8	55
417	Understanding the combustion process for the synthesis of mechanically robust SnSe thermoelectrics. <i>Nano Energy</i> , 2018 , 44, 53-62	17.1	37
416	Chemical Insights into PbSe- x%HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18115-18123	16.4	60
415	Dual Alloying Strategy to Achieve a High Thermoelectric Figure of Merit and Lattice Hardening in p-Type Nanostructured PbTe. <i>ACS Energy Letters</i> , 2018 , 3, 2593-2601	20.1	30
414	Direct Measurement of Anharmonic Decay Channels of a Coherent Phonon. <i>Physical Review Letters</i> , 2018 , 121, 125901	7.4	18
413	Electron Density Optimization and the Anisotropic Thermoelectric Properties of Ti Self-Intercalated TiS Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32344-32354	9.5	14
412	Weak Electron Phonon Coupling and Deep Level Impurity for High Thermoelectric Performance Pb _{1-x} GaxTe. <i>Advanced Energy Materials</i> , 2018 , 8, 1800659	21.8	75
411	Absence of Nanostructuring in NaPb SbTe : Solid Solutions with High Thermoelectric Performance in the Intermediate Temperature Regime. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7021-7031	16.4	19
410	Thermal conductivity in BiSbTe and the role of dense dislocation arrays at grain boundaries. <i>Science Advances</i> , 2018 , 4, eaar5606	14.3	102
409	Thermoelectric properties of n-type ZrNiSn prepared by rapid non-equilibrium laser processing.. <i>RSC Advances</i> , 2018 , 8, 15796-15803	3.7	14
408	Multi-Scale Microstructural Thermoelectric Materials: Transport Behavior, Non-Equilibrium Preparation, and Applications. <i>Advanced Materials</i> , 2017 , 29, 1602013	24	182

407	Potential for superionic conductors in thermoelectric applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017 , 4, 58-63	7.9	23
406	NMR study of vacancy and structure-induced changes in Cu _{2-x} Te. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 106, 52-57	3.9	8
405	Panosopic approach for high-performance Te-doped skutterudite. <i>NPG Asia Materials</i> , 2017 , 9, e352-e353	3.3	37
404	Non-equilibrium synthesis and characterization of n-type Bi ₂ Te _{2.7} Se _{0.3} thermoelectric material prepared by rapid laser melting and solidification. <i>RSC Advances</i> , 2017 , 7, 21439-21445	3.7	28
403	Intrinsically low thermal conductivity from a quasi-one-dimensional crystal structure and enhanced electrical conductivity network via Pb doping in SbCrSe ₃ . <i>NPG Asia Materials</i> , 2017 , 9, e387-e387	10.3	26
402	Partial indium solubility induces chemical stability and colossal thermoelectric figure of merit in Cu ₂ Se. <i>Energy and Environmental Science</i> , 2017 , 10, 1668-1676	35.4	207
401	Thermoelectric Materials: Multi-Scale Microstructural Thermoelectric Materials: Transport Behavior, Non-Equilibrium Preparation, and Applications (Adv. Mater. 20/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
400	Preparation of n-type Bi ₂ Te ₃ thermoelectric materials by non-contact dispenser printing combined with selective laser melting. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700067	2.5	27
399	Subtle Roles of Sb and S in Regulating the Thermoelectric Properties of N-Type PbTe to High Performance. <i>Advanced Energy Materials</i> , 2017 , 7, 1700099	21.8	88
398	Chemical synthesis and enhanced electrical properties of bulk poly(3,4-ethylenedioxythiophene)/reduced graphene oxide nanocomposites. <i>Synthetic Metals</i> , 2017 , 229, 65-71	3.6	14
397	Eco-friendly high-performance silicide thermoelectric materials. <i>National Science Review</i> , 2017 , 4, 611-626	6.8	49
396	Realizing a thermoelectric conversion efficiency of 12% in bismuth telluride/skutterudite segmented modules through full-parameter optimization and energy-loss minimized integration. <i>Energy and Environmental Science</i> , 2017 , 10, 956-963	35.4	181
395	Crystal Structure and Thermoelectric Properties of the Lillianite Homologue PbBiSe. <i>Inorganic Chemistry</i> , 2017 , 56, 261-268	5.1	18
394	Facile room temperature solventless synthesis of high thermoelectric performance Ag ₂ Se via a dissociative adsorption reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23243-23251	13	52
393	Stretchable conductors by kirigami patterning of aramid-silver nanocomposites with zero conductance gradient. <i>Applied Physics Letters</i> , 2017 , 111, 161901	3.4	32
392	Grain boundary scattering effects on mobilities in p-type polycrystalline SnSe. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10191-10200	7.1	35
391	Grain boundary engineering with nano-scale InSb producing high performance In Ce Co ₄ Sb ₁₂ + skutterudite thermoelectrics. <i>Journal of Materiomics</i> , 2017 , 3, 273-279	6.7	27
390	Surface vibrational modes of the topological insulator Bi ₂ Se ₃ observed by Raman spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	22

389	Entropy as a Gene-Like Performance Indicator Promoting Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1702712	24	130
388	High thermoelectric performance of p-BiSbTe compounds prepared by ultra-fast thermally induced reaction. <i>Energy and Environmental Science</i> , 2017 , 10, 2638-2652	35.4	90
387	Thermoelectric performance of CuFeS ₂ +2x composites prepared by rapid thermal explosion. <i>NPG Asia Materials</i> , 2017 , 9, e390-e390	10.3	29
386	Modification of the intermediate band and thermoelectric properties in Se-doped CoSbS _{1-x} Sex compounds. <i>RSC Advances</i> , 2017 , 7, 34466-34472	3.7	9
385	Thermoelectric properties of Cu/Ag doped type-III Ba ₂₄ Ge ₁₀₀ clathrates. <i>Journal of Solid State Chemistry</i> , 2017 , 253, 414-420	3.3	4
384	The Role of Zn in Chalcopyrite CuFeS ₂ : Enhanced Thermoelectric Properties of Cu _{1-x} ZnxFeS ₂ with In Situ Nanoprecipitates. <i>Advanced Energy Materials</i> , 2017 , 7, 1601299	21.8	107
383	Optimization of Ag Nanoparticles on Thermoelectric Performance of Ba-Filled Skutterudite. <i>Science of Advanced Materials</i> , 2017 , 9, 682-687	2.3	9
382	Origins of phase separation in thermoelectric (Ti, Zr, Hf)NiSn half-Heusler alloys from first principles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13949-13956	13	34
381	Nonmagnetic In Substituted CuFe _{1-x} In _x S ₂ Solid Solution Thermoelectric. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27895-27902	3.8	27
380	Promising bulk nanostructured Cu ₂ Se thermoelectrics via high throughput and rapid chemical synthesis. <i>RSC Advances</i> , 2016 , 6, 111457-111464	3.7	28
379	Suppressed Magnetic Circular Dichroism and Valley-Selective Magnetoabsorption due to the Effective Mass Anisotropy in Bismuth. <i>Physical Review Letters</i> , 2016 , 117, 017402	7.4	4
378	Optimization of the Electronic Band Structure and the Lattice Thermal Conductivity of Solid Solutions According to Simple Calculations: A Canonical Example of the Mg ₂ Si _{1-x} GexSny Ternary Solid Solution. <i>Chemistry of Materials</i> , 2016 , 28, 5538-5548	9.6	40
377	Band Ordering and Dynamics of Cu ₂ Te and Cu _{1.98} Ag _{0.2} Te. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14549-14555	3.8	11
376	Non-equilibrium processing leads to record high thermoelectric figure of merit in PbTe-SrTe. <i>Nature Communications</i> , 2016 , 7, 12167	17.4	377
375	High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. <i>Advanced Functional Materials</i> , 2016 , 26, 8435-8445	15.6	89
374	Enhanced ZT and attempts to chemically stabilize Cu ₂ Se via Sn doping. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17225-17235	13	62
373	Zhao et al. reply. <i>Nature</i> , 2016 , 539, E2-E3	50.4	10
372	Manipulating the Combustion Wave during Self-Propagating Synthesis for High Thermoelectric Performance of Layered Oxychalcogenide Bi _{1-x} PbxCuSeO. <i>Chemistry of Materials</i> , 2016 , 28, 4628-4640	9.6	71

371	Thermoelectric properties of p-type $\text{Ag}_{1-x}(\text{Pb}_{1-x}\text{Sn})\text{Sb}_{1-x}\text{Te}_{x+2}$. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 34-42	3.3	5
370	A first-principles approach to half-Heusler thermoelectrics: Accelerated prediction and understanding of material properties. <i>Journal of Materiomics</i> , 2016 , 2, 104-113	6.7	43
369	Recent advances in high-performance bulk thermoelectric materials. <i>International Materials Reviews</i> , 2016 , 61, 379-415	16.1	302
368	Broad temperature plateau for high ZTs in heavily doped p-type SnSe single crystals. <i>Energy and Environmental Science</i> , 2016 , 9, 454-460	35.4	331
367	Phase Segregation and Superior Thermoelectric Properties of $\text{Mg}_2\text{Si}_{1-x}\text{Sb}_x$ ($0 \leq x \leq 0.025$) Prepared by Ultrafast Self-Propagating High-Temperature Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3268-76	9.5	37
366	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2366-73	16.4	213
365	Distribution of impurity states and charge transport in $\text{Zr}_{0.25}\text{Hf}_{0.75}\text{Ni}_{1-x}\text{Sn}_{1-x}\text{Sb}_x$ nanocomposites. <i>Journal of Solid State Chemistry</i> , 2016 , 234, 72-86	3.3	5
364	In situ nanostructure design leading to a high figure of merit in an eco-friendly stable $\text{Mg}_2\text{Si}_{0.30}\text{Sn}_{0.70}$ solid solution. <i>RSC Advances</i> , 2016 , 6, 16824-16831	3.7	12
363	$\text{Cr}_2\text{Ge}_2\text{Te}_6$: High Thermoelectric Performance from Layered Structure with High Symmetry. <i>Chemistry of Materials</i> , 2016 , 28, 1611-1615	9.6	64
362	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. <i>Science</i> , 2016 , 351, 141-4	33.3	1237
361	Toward High-Thermoelectric-Performance Large-Size Nanostructured BiSbTe Alloys via Optimization of Sintering-Temperature Distribution. <i>Advanced Energy Materials</i> , 2016 , 6, 1600595	21.8	42
360	Ultra-Fast One-Step Fabrication of Cu_2Se Thermoelectric Legs With NiAl Electrodes by Plasma-Activated Reactive Sintering Technique. <i>Advanced Engineering Materials</i> , 2016 , 18, 1181-1188	3.5	8
359	Thermoelectric Devices for Power Generation: Recent Progress and Future Challenges. <i>Advanced Engineering Materials</i> , 2016 , 18, 194-213	3.5	218
358	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory-experiment perspective. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	290
357	Indium Preferential Distribution Enables Electronic Engineering of Magnetism in $\text{FeSb}_2\text{In}_x\text{Se}_4$ p-Type High-Tc Ferromagnetic Semiconductors. <i>Chemistry of Materials</i> , 2016 , 28, 8570-8579	9.6	8
356	Chapter 3 Growth and Transport Properties of Tetradymite Thin Films 2016 , 95-124		2
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