

Lidong Chen

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.

490
papers

31,790
citations

89
h-index

162
g-index

518
ext. papers

36,568
ext. citations

8.2
avg, IF

7.46
L-index

#	Paper	IF	Citations
490	Entropy engineering induced exceptional thermoelectric and mechanical performances in Cu ₂ -Ag Te _{1-2S} Se. <i>Acta Materialia</i> , 2022 , 224, 117512	8.4	7
489	Novel meta-phase arising from large atomic size mismatch. <i>Matter</i> , 2022 ,	12.7	5
488	A high-efficiency GeTe-based thermoelectric module for low-grade heat recovery. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7677-7683	13	0
487	Structural Modularization of Cu Te Leading to High Thermoelectric Performance near the Mott-Ioffe-Regel Limit.. <i>Advanced Materials</i> , 2022 , e2108573	24	0
486	Enhanced thermal stability and oxidation resistance in La ₃ -Te ₄ by compositing metallic nickel particles. <i>Acta Materialia</i> , 2021 , 117526	8.4	2
485	Optimized Thermoelectric Properties of BiSbTe through AgCuTe Doping for Low-Grade Heat Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57514-57520	9.5	2
484	Significantly Enhanced Thermoelectric Properties of Copper Phthalocyanine/Single-Walled Carbon Nanotube Hybrids by Iodine Doping. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55156-55163	9.5	1
483	Phase-modulated mechanical and thermoelectric properties of Ag ₂ S _{1-x} Tex ductile semiconductors. <i>Journal of Materiomics</i> , 2021 ,	6.7	6
482	Unusually high Seebeck coefficient arising from temperature-dependent carrier concentration in PbSeAgSbSe ₂ alloys. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 17365-17370	7.1	1
481	Thermoelectric properties and service stability of Ag-containing Cu ₂ Se. <i>Materials Today Physics</i> , 2021 , 21, 100550	8	4
480	Ultralow Lattice Thermal Conductivity and Superhigh Thermoelectric Figure-of-Merit in (Mg, Bi) Co-Doped GeTe. <i>Advanced Materials</i> , 2021 , 33, e2008773	24	44
479	Effect of Cu-doping on the magnetic and electrical transport properties of three-quarter Heusler alloy ZrCo _{1.5} Sn. <i>Journal of Applied Physics</i> , 2021 , 129, 125106	2.5	1
478	Synergistically Optimized Electrical and Thermal Transport Properties in Copper Phthalocyanine-Based Organic Small Molecule with Nanoscale Phase Separations. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15064-15072	9.5	4
477	p-Type Plastic Inorganic Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2100883	21.8	11
476	Enhanced Thermoelectric Performance in Ge Sb Te/FeGe Composites Enabled by Hierarchical Defects. <i>Small</i> , 2021 , 17, e2100915	11	0
475	Recent Developments in Flexible Thermoelectric Devices. <i>Small Science</i> , 2021 , 1, 2100005		18
474	Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. <i>Joule</i> , 2021 , 5, 1183-1195	27.8	9

473	Enhanced Thermoelectric and Mechanical Performances in Sintered BiSbTe-AgSbSe Composite. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24937-24944	9.5	8
472	Transparent Power-Generating Windows Based on Solar-Thermal-Electric Conversion. <i>Advanced Energy Materials</i> , 2021 , 11, 2101213	21.8	3
471	Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal MgPb for cryogenic heat pumping. <i>Nature Communications</i> , 2021 , 12, 3837	17.4	6
470	Nano-scale compositional oscillation and phase intergrowth in Cu ₂ S _{0.5} Se _{0.5} and their role in thermal transport. <i>Journal of Materials Science and Technology</i> , 2021 , 79, 222-229	9.1	2
469	Room-temperature plastic inorganic semiconductors for flexible and deformable electronics. <i>Information Materials</i> , 2021 , 3, 22-35	23.1	16
468	Organic thermoelectric materials 2021 , 183-219		1
467	Design and fabrication of thermoelectric devices 2021 , 221-267		1
466	Strategies to optimize thermoelectric performance 2021 , 19-50		1
465	Measurement of thermoelectric properties 2021 , 51-80		
464	Review of inorganic thermoelectric materials 2021 , 81-145		0
463	Segmented modules 2021 , 469-492		
462	High efficiency GeTe-based materials and modules for thermoelectric power generation. <i>Energy and Environmental Science</i> , 2021 , 14, 995-1003	35.4	33
461	Refined band structure plus enhanced phonon scattering realizes thermoelectric performance optimization in CuMn codoped SnTe. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13065-13070	13	10
460	Ductile Ag ₂ S ₂ Te with Excellent Shape-Conformability and High Thermoelectric Performance. <i>Advanced Materials</i> , 2021 , 33, e2007681	24	24
459	High-entropy-stabilized chalcogenides with high thermoelectric performance. <i>Science</i> , 2021 , 371, 830-834	35.3	167
458	Anion-Dependent Molecular Doping and Charge Transport in Ferric Salt-Doped P3HT for Thermoelectric Application. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1252-1259	4	6
457	Investigation on Low-Temperature Thermoelectric Properties of AgSe Polycrystal Fabricated by Using Zone-Melting Method. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8246-8255	6.4	8
456	Enhanced thermoelectric performance in ductile Ag ₂ S ₂ -based materials via doping iodine. <i>Applied Physics Letters</i> , 2021 , 119, 121905	3.4	5

455	Expand band gap and suppress bipolar excitation to optimize thermoelectric performance of Bi _{0.35} Sb _{1.65} Te ₃ sintered materials. <i>Materials Today Physics</i> , 2021 , 21, 100544	8	5
454	Intrinsic lamellar defects containing atomic Cu in Cu ₂ X (X = S, Se) thermoelectric materials. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4173-4181	7.1	1
453	Low-dimensional and nanocomposite thermoelectric materials 2021 , 147-182		
452	A low-cost and eco-friendly Br-doped Cu ₇ Sn ₃ S ₁₀ thermoelectric compound with zT around unity. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7946-7954	13	9
451	Enhanced Thermoelectric Properties of Cu x Se (1.75 ≤ x ≤ 1.0) during Phase Transitions. <i>Chinese Physics Letters</i> , 2021 , 38, 117201	1.8	1
450	Half-Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. <i>Advanced Energy Materials</i> , 2020 , 10, 2000888	21.8	40
449	Electrode interface optimization advances conversion efficiency and stability of thermoelectric devices. <i>Nature Communications</i> , 2020 , 11, 2723	17.4	38
448	Good stability and high thermoelectric performance of Fe doped CuS. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7374-7380	3.6	12
447	The order-disorder transition in CuSe and medium-range ordering in the high-temperature phase. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 201-207	1.8	5
446	Interfacial behaviors of p-type CeyFexCo ₄ Sb ₁₂ /Nb thermoelectric joints. <i>Functional Materials Letters</i> , 2020 , 13, 2051020	1.2	
445	Electronic origin of the enhanced thermoelectric efficiency of Cu ₂ Se. <i>Science Bulletin</i> , 2020 , 65, 1888-1893	3.6	5
444	Number mismatch between cations and anions as an indicator for low lattice thermal conductivity in chalcogenides. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	7
443	Doubled Thermoelectric Figure of Merit in p-Type BiFeSi via Synergistically Optimizing Electrical and Thermal Transports. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12901-12909	9.5	9
442	Semiconducting polymer contributes favorably to the Seebeck coefficient in multi-component, high-performance n-type thermoelectric nanocomposites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9797-9805 ¹¹	13	11
441	Thermoelectric Properties of Nano-grained Mooihoekite Cu ₉ Fe ₉ S ₁₆ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 1116-1121	1.3	3
440	Crystalline Structure-Dependent Mechanical and Thermoelectric Performance in AgSe S System. <i>Research</i> , 2020 , 2020, 6591981	7.8	16
439	Conformal organic/inorganic semiconductor composites for flexible thermoelectrics. <i>Energy and Environmental Science</i> , 2020 , 13, 511-518	35.4	36
438	Enhanced thermoelectric properties of copper phthalocyanine/single-walled carbon nanotubes hybrids. <i>Carbon</i> , 2020 , 159, 471-477	10.4	28

437	Crystal Structure and Thermoelectric Properties of $\text{Cu}_2\text{Fe}_{1-x}\text{Mn}_x\text{SnSe}_4$ Diamond-like Chalcogenides. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2137-2146	6.1	7
436	Enhanced Thermoelectric Performance and Service Stability of Cu_2Se Via Tailoring Chemical Compositions at Multiple Atomic Positions. <i>Advanced Functional Materials</i> , 2020 , 30, 1908315	15.6	26
435	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. <i>Nano Energy</i> , 2020 , 68, 104347	17.1	46
434	A Device-to-Material Strategy Guiding the Double-High Thermoelectric Module. <i>Joule</i> , 2020 , 4, 2475-2483	27.8	27
433	Electronic quality factor for thermoelectrics. <i>Science Advances</i> , 2020 , 6,	14.3	49
432	Preparation and Thermoelectric Properties of Semiconducting Single-Walled Carbon Nanotubes/Regioregular Poly(3-dodecylthiophene) Composite Films. <i>Polymers</i> , 2020 , 12,	4.5	1
431	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. <i>Science</i> , 2020 , 369, 542-545	33.3	60
430	Discovery of high-performance thermoelectric copper chalcogenide using modified diffusion-couple high-throughput synthesis and automated histogram analysis technique. <i>Energy and Environmental Science</i> , 2020 , 13, 3041-3053	35.4	16
429	Ternary Compounds CuTe ($\text{Y} = \text{Y}, \text{Sm}, \text{and Dy}$): A Family of New Thermoelectric Materials with Trigonal Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40486-40494	9.5	1
428	Cu_2Se -Based liquid-like thermoelectric materials: looking back and stepping forward. <i>Energy and Environmental Science</i> , 2020 , 13, 3307-3329	35.4	33
427	Synergistically Improved Molecular Doping and Carrier Mobility by Copolymerization of Donor-Acceptor and Donor-Donor Building Blocks for Thermoelectric Application. <i>Advanced Functional Materials</i> , 2020 , 30, 2004378	15.6	23
426	Decoupling Thermoelectric Performance and Stability in Liquid-Like Thermoelectric Materials. <i>Advanced Science</i> , 2020 , 7, 1901598	13.6	20
425	Recent Advances in Liquid-Like Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1903867	36.6	67
424	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. <i>Energy and Environmental Science</i> , 2020 , 13, 1240-1249	35.4	94
423	Largely Enhanced Seebeck Coefficient and Thermoelectric Performance by the Distortion of Electronic Density of States in GeSbTe . <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34046-34052	9.5	19
422	Flexible thermoelectrics: from silver chalcogenides to full-inorganic devices. <i>Energy and Environmental Science</i> , 2019 , 12, 2983-2990	35.4	95
421	Thermoelectric properties of non-stoichiometric $\text{Cu}_{2+x}\text{Sn}_{1-x}\text{S}_3$ compounds. <i>Journal of Applied Physics</i> , 2019 , 126, 085111	2.5	19
420	Protective Properties of Electrochemically Deposited Al-Based Coatings on $\text{Yb}_{0.3}\text{Co}_4\text{Sb}_{12}$ Skutterudite. <i>Journal of Electronic Materials</i> , 2019 , 48, 5523-5531	1.9	4

419	Lattice dynamics of thermoelectric palladium sulfide. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 484-492	37	7
418	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , 2019 , 31, e1807916	24	255
417	Ultrahigh figure-of-merit of Cu ₂ Se incorporated with carbon coated boron nanoparticles. <i>Information Materials</i> , 2019 , 1, 108-115	23.1	29
416	Thermodynamics, kinetics and electronic properties of point defects in β -FeSi. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10497-10504	3.6	9
415	Step distribution of Yb filling fraction during microstructural evolution in skutterudites. <i>Journal of Advanced Ceramics</i> , 2019 , 8, 62-71	10.7	5
414	Enhanced Thermoelectric Performance of Quaternary CuAgSeS Liquid-like Chalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13433-13440	9.5	20
413	Good Performance and Flexible PEDOT:PSS/CuSe Nanowire Thermoelectric Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12819-12829	9.5	103
412	Thermoelectric properties of n-type CuSnS-based compounds.. <i>RSC Advances</i> , 2019 , 9, 7826-7832	3.7	11
411	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe _{1-x} Sex with refined band structures. <i>Nano Energy</i> , 2019 , 60, 1-7	17.1	66
410	Aguilarite AgSSe Thermoelectric Material: Natural Mineral with Low Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12632-12638	9.5	12
409	Lattice Strain Advances Thermoelectrics. <i>Joule</i> , 2019 , 3, 1276-1288	27.8	204
408	Superior performance and high service stability for GeTe-based thermoelectric compounds. <i>National Science Review</i> , 2019 , 6, 944-954	10.8	65
407	Low Contact Resistivity and Interfacial Behavior of p-Type NbFeSb/Mo Thermoelectric Junction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14182-14190	9.5	19
406	Dopant-Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800618	6.4	22
405	Recent Advances in n-Type Thermoelectric Nanocomposites. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800643	6.4	32
404	A high-throughput strategy to screen interfacial diffusion barrier materials for thermoelectric modules. <i>Journal of Materials Research</i> , 2019 , 34, 1179-1187	2.5	11
403	Copper chalcogenide thermoelectric materials. <i>Science China Materials</i> , 2019 , 62, 8-24	7.1	63
402	High Performance and Flexible Polyvinylpyrrolidone/Ag/AgTe Ternary Composite Film for Thermoelectric Power Generator. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33254-33262	9.5	28

401	Integrating large-area perovskite solar module with thermoelectric generator for enhanced and stable power output. <i>Nano Energy</i> , 2019 , 65, 104009	17.1	19
400	Ru Alloying Induced Enhanced Thermoelectric Performance in FeSi-Based Compounds. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32151-32158	9.5	8
399	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. <i>Joule</i> , 2019 , 3, 1538-1548	15.8	75
398	Fabrication and Thermoelectric Properties of PEDOT Films and Their Composites 2019 , 69-96		1
397	Are Cu Te-Based Compounds Excellent Thermoelectric Materials?. <i>Advanced Materials</i> , 2019 , 31, e1903480	3.4	33
396	Thermal transport in thermoelectric materials with chemical bond hierarchy. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 183002	1.8	8
395	High performance n-type AgSe film on nylon membrane for flexible thermoelectric power generator. <i>Nature Communications</i> , 2019 , 10, 841	17.4	165
394	Quasi-two-dimensional GeSbTe compounds as promising thermoelectric materials with anisotropic transport properties. <i>Applied Physics Letters</i> , 2019 , 114, 053903	3.4	8
393	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
392	Enhanced Molecular Doping for High Conductivity in Polymers with Volume Freed for Dopants. <i>Macromolecules</i> , 2019 , 52, 9804-9812	5.5	21
391	Preparation and thermoelectric properties of SWCNT/PEDOT:PSS coated tellurium nanorod composite films. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 163-169	5.7	59
390	Nanoscale Behavior and Manipulation of the Phase Transition in Single-Crystal Cu Se. <i>Advanced Materials</i> , 2019 , 31, e1804919	24	17
389	Preparation and thermoelectric properties of PEDOT:PSS coated Te nanorod/PEDOT:PSS composite films. <i>Organic Electronics</i> , 2019 , 64, 79-85	3.5	55
388	Thermal Conductivity during Phase Transitions. <i>Advanced Materials</i> , 2019 , 31, e1806518	24	43
387	Improved electrical transport properties and optimized thermoelectric figure of merit in lithium-doped copper sulfides. <i>Rare Metals</i> , 2018 , 37, 282-289	5.5	18
386	Significantly optimized thermoelectric properties in high-symmetry cubic Cu ₇ PSe ₆ compounds via entropy engineering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6493-6502	13	40
385	Improved Thermoelectric Performance in Nonstoichiometric CuMnSnSe Quaternary Diamondlike Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10123-10131	9.5	20
384	Thermoelectric properties of polycrystalline palladium sulfide.. <i>RSC Advances</i> , 2018 , 8, 13154-13158	3.7	11

383	Multiple phase transitions and structural oscillations in thermoelectric Cu ₂ S at elevating temperatures. <i>Ceramics International</i> , 2018 , 44, 13076-13081	5.1	8
382	Room-temperature ductile inorganic semiconductor. <i>Nature Materials</i> , 2018 , 17, 421-426	27	147
381	A novel hydrophilic pyridinium salt polymer/SWCNTs composite film for high thermoelectric performance. <i>Polymer</i> , 2018 , 136, 149-156	3.9	12
380	Intrinsically High Thermoelectric Performance in AgInSe n-Type Diamond-Like Compounds. <i>Advanced Science</i> , 2018 , 5, 1700727	13.6	41
379	Low-Symmetry Rhombohedral GeTe Thermoelectrics. <i>Joule</i> , 2018 , 2, 976-987	27.8	275
378	Scanning laser melting for rapid and massive fabrication of filled skutterudites with high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6772-6779	13	10
377	Thermoelectric properties of Cu ₂ Se _{1-x} Tex solid solutions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6977-6986	13	45
376	Pressure-induced superconductivity in palladium sulfide. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 155703	1.8	6
375	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018 , 9, 2910	17.4	97
374	One-step Synthesis and Enhanced Thermoelectric Properties of Polymer-Quantum Dot Composite Films. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8037-8042	16.4	27
373	Giant enhancement of the figure-of-merit over a broad temperature range in nano-boron incorporated Cu ₂ Se. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18409-18416	13	37
372	Optimizing the Thermoelectric Performance of Poly(3-hexylthiophene) through Molecular-Weight Engineering. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3246-3253	4.5	12
371	Understanding the Intrinsic Carrier Transport in Highly Oriented Poly(3-hexylthiophene): Effect of Side Chain Regioregularity. <i>Polymers</i> , 2018 , 10,	4.5	12
370	Enhanced Thermoelectric Performance in n-Type BiTe-Based Alloys via Suppressing Intrinsic Excitation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21372-21380	9.5	51
369	Synthesis and Thermoelectric Properties of Charge-Compensated SPdCoSb Skutterudites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 625-634	9.5	14
368	Enhanced thermoelectric performance of CNT/P3HT composites with low CNT content.. <i>RSC Advances</i> , 2018 , 8, 33855-33863	3.7	16
367	How to Measure Thermoelectric Properties Reliably. <i>Joule</i> , 2018 , 2, 2183-2188	27.8	38
366	Rationalizing phonon dispersion for lattice thermal conductivity of solids. <i>National Science Review</i> , 2018 , 5, 888-894	10.8	95

365	Cotton-based wearable poly(3-hexylthiophene) electronic device for thermoelectric application with cross-plane temperature gradient. <i>Thin Solid Films</i> , 2018 , 667, 59-63	2.2	24
364	Self-propagation high-temperature synthesis of half-Heusler thermoelectric materials: reaction mechanism and applicability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19470-19478	13	21
363	One-step Synthesis and Enhanced Thermoelectric Properties of Polymer/Quantum Dot Composite Films. <i>Angewandte Chemie</i> , 2018 , 130, 8169-8174	3.6	7
362	Resonant level-induced high thermoelectric response in indium-doped GeTe. <i>NPG Asia Materials</i> , 2017 , 9, e343-e343	10.3	129
361	The Electron crystal behavior in copper chalcogenides Cu ₂ X (X = Se, S). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5098-5105	13	63
360	Quantitative description on structure-property relationships of Li-ion battery materials for high-throughput computations. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 134-146	7.1	16
359	Constructing nanoporous carbon nanotubes/Bi ₂ Te ₃ composite for synchronous regulation of the electrical and thermal performances. <i>Journal of Applied Physics</i> , 2017 , 121, 055104	2.5	13
358	Research progress on conducting polymer based supercapacitor electrode materials. <i>Nano Energy</i> , 2017 , 36, 268-285	17.1	715
357	Strong anisotropy in thermoelectric properties of CNT/PANI composites. <i>Carbon</i> , 2017 , 114, 1-7	10.4	56
356	Compound Defects and Thermoelectric Properties of Self-Charge Compensated Skutterudites SeCoSbSe. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22713-22724	9.5	13
355	Thermoelectric properties of copper-deficient Cu ₂ -Se (0.05 ≤ x ≤ 0.25) binary compounds. <i>Ceramics International</i> , 2017 , 43, 11142-11148	5.1	43
354	Crystal structure across the Ito phase transition in thermoelectric Cu ₂ Se. <i>IUCrJ</i> , 2017 , 4, 476-485	4.7	44
353	Ultrahigh Thermoelectric Performance in SrNb _{0.2} Ti _{0.8} O ₃ Oxide Films at a Submicrometer-Scale Thickness. <i>ACS Energy Letters</i> , 2017 , 2, 915-921	20.1	17
352	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
351	Multiple nanostructures in high performance Cu ₂ S _{0.5} Te _{0.5} thermoelectric materials. <i>Ceramics International</i> , 2017 , 43, 7866-7869	5.1	12
350	Engineering carrier scattering at the interfaces in polyaniline based nanocomposites for high thermoelectric performances. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 741-748	7.8	90
349	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
348	An argyrodite-type AgGaSe liquid-like material with ultralow thermal conductivity and high thermoelectric performance. <i>Chemical Communications</i> , 2017 , 53, 11658-11661	5.8	55

347	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. <i>Nano Energy</i> , 2017 , 41, 501-510	17.1	87
346	Solid-State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1701148	24	82
345	High thermoelectric performance and low thermal conductivity in $\text{Cu}_2\text{S}_{1/3}\text{Se}_{1/3}\text{Te}_{1/3}$ liquid-like materials with nanoscale mosaic structures. <i>Nano Energy</i> , 2017 , 42, 43-50	17.1	44
344	Significant enhancement of figure-of-merit in carbon-reinforced Cu_2Se nanocrystalline solids. <i>Nano Energy</i> , 2017 , 41, 164-171	17.1	76
343	Micron-thick highly conductive PEDOT films synthesized via self-inhibited polymerization: roles of anions. <i>NPG Asia Materials</i> , 2017 , 9, e405-e405	10.3	38
342	Ultrahigh thermoelectric performance in $\text{Cu}_2\text{Se}_{0.5}\text{S}_{0.5}$ liquid-like materials. <i>Materials Today Physics</i> , 2017 , 1, 14-23	8	99
341	Enhanced Thermoelectric Performance through Tuning Bonding Energy in $\text{Cu}_2\text{Se}_{1-x}\text{S}_x$ Liquid-like Materials. <i>Chemistry of Materials</i> , 2017 , 29, 6367-6377	9.6	115
340	Enhanced stability and thermoelectric figure-of-merit in copper selenide by lithium doping. <i>Materials Today Physics</i> , 2017 , 1, 7-13	8	75
339	Ultrahigh thermoelectric performance in Cu_2Se -based hybrid materials with highly dispersed molecular CNTs. <i>Energy and Environmental Science</i> , 2017 , 10, 1928-1935	35.4	215
338	Extremely low thermal conductivity and high thermoelectric performance in liquid-like $\text{Cu}_2\text{Se}_{1-x}\text{S}_x$ polymorphic materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18148-18156	13	56
337	Entropy as a Gene-Like Performance Indicator Promoting Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1702712	24	130
336	Suppressed intrinsic excitation and enhanced thermoelectric performance in $\text{Ag}_x\text{Bi}_{0.5}\text{Sb}_{1.5-x}\text{Te}_3$. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12619-12628	7.1	32
335	Three-dimensional tubular graphene/polyaniline composites as high-performance elastic thermoelectrics. <i>Composites Science and Technology</i> , 2017 , 150, 135-140	8.6	19
334	Skutterudite with graphene-modified grain-boundary complexion enhances zT enabling high-efficiency thermoelectric device. <i>Energy and Environmental Science</i> , 2017 , 10, 183-191	35.4	191
333	Enhanced thermoelectric properties in p-type $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ alloy by combining incorporation and doping using multi-scale CuAlO_2 particles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600451	1.6	5
332	Study on the High Temperature Interfacial Stability of $\text{Ti}/\text{Mo}/\text{Yb}_{0.3}\text{Co}_4\text{Sb}_{12}$ Thermoelectric Joints. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 952	2.6	10
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