Lidong Chen

List of Publications by Citations

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	Convergence of electronic bands for high performance bulk thermoelectrics. *Nature*, **2011**, 473, 66-9	50.4	2611
489	Copper ion liquid-like thermoelectrics. *Nature Materials*, **2012**, 11, 422-5	27	1339
488	Multiple-filled skutterudites: high thermoelectric figure of merit through separately optimizing electrical and thermal transports. *Journal of the American Chemical Society*, **2011**, 133, 7837-46	16.4	1071
487	Research progress on conducting polymer based supercapacitor electrode materials. *Nano Energy*, **2017**, 36, 268-285	17.1	715
486	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. *Nature Communications*, **2015**, 6, 8144	17.4	658
485	Enhanced thermoelectric performance of single-walled carbon nanotubes/polyaniline hybrid nanocomposites. *ACS Nano*, **2010**, 4, 2445-51	16.7	531
484	High thermoelectric performance in non-toxic earth-abundant copper sulfide. *Advanced Materials*, **2014**, 26, 3974-8	24	501
483	Evaluation of Half-Heusler Compounds as Thermoelectric Materials Based on the Calculated Electrical Transport Properties. *Advanced Functional Materials*, **2008**, 18, 2880-2888	15.6	397
482	Anomalous barium filling fraction and n-type thermoelectric performance of BayCo4Sb12. *Journal of Applied Physics*, **2001**, 90, 1864-1868	2.5	390
481	Enhanced Seebeck coefficient through energy-barrier scattering in PbTe nanocomposites. *Physical Review B*, **2009**, 79,	3.3	356
480	Low thermal conductivity and high thermoelectric figure of merit in n-type BaxYbyCo4Sb12 double-filled skutterudites. *Applied Physics Letters*, **2008**, 92, 182101	3.4	334
479	Stabilizing the optimal carrier concentration for high thermoelectric efficiency. *Advanced Materials*, **2011**, 23, 5674-8	24	323
478	Ultrahigh thermoelectric performance by electron and phonon critical scattering in Cu2 Se1-x Ix. *Advanced Materials*, **2013**, 25, 6607-12	24	319
477	Effects of partial substitution of Ni by Pd on the thermoelectric properties of ZrNiSn-based half-Heusler compounds. *Applied Physics Letters*, **2001**, 79, 4165-4167	3.4	316
476	Strain field fluctuation effects on lattice thermal conductivity of ZrNiSn-based thermoelectric compounds. *Applied Physics Letters*, **2004**, 85, 1140-1142	3.4	305
475	Recent advances in high-performance bulk thermoelectric materials. *International Materials Reviews*, **2016**, 61, 379-415	16.1	302
474	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory□experiment perspective. *Npj Computational Materials*, **2016**, 2,	10.9	290

473	Preparation and electrical properties of graphene nanosheet/Al2O3 composites. *Carbon*, **2010**, 48, 1743-1749	10.4	283
472	Deposition and electrical properties of N□h codoped p-type ZnO films by ultrasonic spray pyrolysis. *Applied Physics Letters*, **2004**, 84, 541-543	3.4	282
471	Thermoelectrics: Direct Solar Thermal Energy Conversion. *MRS Bulletin*, **2008**, 33, 366-368	3.2	280
470	Low-Symmetry Rhombohedral GeTe Thermoelectrics. *Joule*, **2018**, 2, 976-987	27.8	275
469	Improved Thermoelectric Properties of Cu-Doped Quaternary Chalcogenides of Cu2CdSnSe4. *Advanced Materials*, **2009**, 21, 3808-3812	24	275
468	A wide-band-gap p-type thermoelectric material based on quaternary chalcogenides of Cu2ZnSnQ4 (Q=S,Se). *Applied Physics Letters*, **2009**, 94, 202103	3.4	268
467	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. *Advanced Materials*, **2019**, 31, e1807916	24	255
466	High efficiency Bi2Te3-based materials and devices for thermoelectric power generation between 100 and 300 □C. *Energy and Environmental Science*, **2016**, 9, 3120-3127	35.4	239
465	Abnormally enhanced thermoelectric transport properties of SWNT/PANI hybrid films by the strengthened PANI molecular ordering. *Energy and Environmental Science*, **2014**, 7, 3801-3807	35.4	236
464	Thermoelectric Devices for Power Generation: Recent Progress and Future Challenges . *Advanced Engineering Materials*, **2016**, 18, 194-213	3.5	218
463	Ultrahigh thermoelectric performance in Cu2Se-based hybrid materials with highly dispersed molecular CNTs. *Energy and Environmental Science*, **2017**, 10, 1928-1935	35.4	215
462	High-performance pseudocubic thermoelectric materials from non-cubic chalcopyrite compounds. *Advanced Materials*, **2014**, 26, 3848-53	24	211
461	Measuring thermoelectric transport properties of materials. *Energy and Environmental Science*, **2015**, 8, 423-435	35.4	210
460	Thermoelectric properties of the n-type filled skutterudite Ba0.3Co4Sb12 doped with Ni. *Journal of Applied Physics*, **2002**, 91, 3698-3705	2.5	208
459	Lattice Strain Advances Thermoelectrics. *Joule*, **2019**, 3, 1276-1288	27.8	204
458	Enhanced thermoelectric properties of CNT/PANI composite nanofibers by highly orienting the arrangement of polymer chains. *Journal of Materials Chemistry*, **2012**, 22, 17612		204
457	Dual-frequency resonant phonon scattering in BaxRyCo4Sb12 (R=La, Ce, and Sr). *Applied Physics Letters*, **2007**, 90, 192111	3.4	202
456	Improved Thermoelectric Performance of Silver Nanoparticles-Dispersed Bi2Te3 Composites Deriving from Hierarchical Two-Phased Heterostructure. *Advanced Functional Materials*, **2015**, 25, 966-976	15.6	198

455	Thermoelectric properties of tetrahedrally bonded wide-gap stannite compounds Cu2ZnSn1−xInxSe4. *Applied Physics Letters*, **2009**, 94, 122103	3.4	197
454	Skutterudite with graphene-modified grain-boundary complexion enhances zT enabling high-efficiency thermoelectric device. *Energy and Environmental Science*, **2017**, 10, 183-191	35.4	191
453	Cu-based thermoelectric materials. *Energy Storage Materials*, **2016**, 3, 85-97	19.4	182
452	Realizing a thermoelectric conversion efficiency of 12% in bismuth telluride/skutterudite segmented modules through full-parameter optimization and energy-loss minimized integration. *Energy and Environmental Science*, **2017**, 10, 956-963	35.4	181
451	On the Design of High-Efficiency Thermoelectric Clathrates through a Systematic Cross-Substitution of Framework Elements. *Advanced Functional Materials*, **2010**, 20, 755-763	15.6	181
450	Ternary compound CuInTe2: a promising thermoelectric material with diamond-like structure. *Chemical Communications*, **2012**, 48, 3818-20	5.8	180
449	Thermoelectric materials step up. *Nature Materials*, **2016**, 15, 691-2	27	172
448	PANI/graphene nanocomposite films with high thermoelectric properties by enhanced molecular ordering. *Journal of Materials Chemistry A*, **2015**, 3, 7086-7092	13	170
447	High-entropy-stabilized chalcogenides with high thermoelectric performance. *Science*, **2021**, 371, 830-834	33.3	167
446	High performance n-type AgSe film on nylon membrane for flexible thermoelectric power generator. *Nature Communications*, **2019**, 10, 841	17.4	165
445	Ultrahigh Thermoelectric Performance in Mosaic Crystals. *Advanced Materials*, **2015**, 27, 3639-44	24	163
444	Cu–Se Bond Network and Thermoelectric Compounds with Complex Diamondlike Structure. *Chemistry of Materials*, **2010**, 22, 6029-6031	9.6	163
443	Filling fraction limit for intrinsic voids in crystals: doping in skutterudites. *Physical Review Letters*, **2005**, 95, 185503	7.4	162
442	High thermoelectric performance of Yb0.26Co4Sb12/yGaSb nanocomposites originating from scattering electrons of low energy. *Acta Materialia*, **2010**, 58, 3995-4002	8.4	158
441	Sulfide bornite thermoelectric material: a natural mineral with ultralow thermal conductivity. *Energy and Environmental Science*, **2014**, 7, 4000-4006	35.4	154
440	Room-temperature ductile inorganic semiconductor. *Nature Materials*, **2018**, 17, 421-426	27	147
439	Synthesis and thermoelectric properties of KyCo4Sb12. *Applied Physics Letters*, **2006**, 89, 221107	3.4	141
438	Fabrication and thermoelectric performance of textured n-type Bi2(Te,Se)3 by spark plasma sintering. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2005**, 117, 334-338	3.1	133

437	High thermoelectric performance in copper telluride. *NPG Asia Materials*, **2015**, 7, e210-e210	10.3	131
436	Entropy as a Gene-Like Performance Indicator Promoting Thermoelectric Materials. *Advanced Materials*, **2017**, 29, 1702712	24	130
435	Resonant level-induced high thermoelectric response in indium-doped GeTe. *NPG Asia Materials*, **2017**, 9, e343-e343	10.3	129
434	PbTe nanocomposites synthesized from PbTe nanocrystals. *Applied Physics Letters*, **2007**, 90, 222112	3.4	124
433	Densification of Al2O3 powder using spark plasma sintering. *Journal of Materials Research*, **2000**, 15, 982-987	2.5	124
432	Enhanced thermoelectric performance of dual-element-filled skutterudites BaxCeyCo4Sb12. *Acta Materialia*, **2009**, 57, 3135-3139	8.4	122
431	Synthesis and thermoelectric properties of p-type- and n-type-filled skutterudite RyMxCo4□Sb12(R:Ce,Ba,Y;M:Fe,Ni). *Journal of Applied Physics*, **2005**, 97, 093712	2.5	122
430	High-temperature thermoelectric properties of Ca3Co4O9+□with Eu substitution. *Solid State Communications*, **2004**, 129, 615-618	1.6	120
429	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu2Se1□Sx Liquid-like Materials. *Chemistry of Materials*, **2017**, 29, 6367-6377	9.6	115
428	Transport Properties of Bulk Thermoelectrics: An International Round-Robin Study, Part II: Thermal Diffusivity, Specific Heat, and Thermal Conductivity. *Journal of Electronic Materials*, **2013**, 42, 1073-1084	1.9	115
427	Forming-free colossal resistive switching effect in rare-earth-oxide Gd2O3 films for memristor applications. *Journal of Applied Physics*, **2009**, 106, 073723	2.5	109
426	The synergic regulation of conductivity and Seebeck coefficient in pure polyaniline by chemically changing the ordered degree of molecular chains. *Journal of Materials Chemistry A*, **2014**, 2, 2634-2640	13	107
425	Large thermoelectric power factor in polyaniline/graphene nanocomposite films prepared by solution-assistant dispersing method. *Journal of Materials Chemistry A*, **2014**, 2, 11107	13	106
424	Superlow thermal conductivity 3D carbon nanotube network for thermoelectric applications. *ACS Applied Materials & Interfaces*, **2012**, 4, 81-6	9.5	105
423	Good Performance and Flexible PEDOT:PSS/CuSe Nanowire Thermoelectric Composite Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 12819-12829	9.5	103
422	Microwave-assisted rapid synthesis of Sb2Te3 nanosheets and thermoelectric properties of bulk samples prepared by spark plasma sintering. *Journal of Materials Chemistry*, **2010**, 20, 1976		103
421	Upconversion Luminescence in Er3+ Doped and Yb3+/Er3+ Codoped Yttria Nanocrystalline Powders. *Journal of the American Ceramic Society*, **2004**, 87, 1072-1075	3.8	103
420	Transport Properties of Bulk Thermoelectrics□An International Round-Robin Study, Part I: Seebeck Coefficient and Electrical Resistivity. *Journal of Electronic Materials*, **2013**, 42, 654-664	1.9	101

419	Highly anisotropic P3HT films with enhanced thermoelectric performance via organic small molecule epitaxy. *NPG Asia Materials*, **2016**, 8, e292-e292	10.3	101
418	Assembly of one-dimensional nanorods into Bi2S3 films with enhanced thermoelectric transport properties. *Applied Physics Letters*, **2007**, 90, 112106	3.4	100
417	Ultrahigh thermoelectric performance in Cu 2 Se 0.5 S 0.5 liquid-like materials. *Materials Today Physics*, **2017**, 1, 14-23	8	99
416	Thermoelectric properties of textured p-type (Bi,Sb)2Te3 fabricated by spark plasma sintering. *Scripta Materialia*, **2005**, 52, 347-351	5.6	98
415	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. *Nature Communications*, **2018**, 9, 2910	17.4	97
414	Enhanced thermoelectric figure of merit of CoSb3 via large-defect scattering. *Applied Physics Letters*, **2004**, 84, 2301-2303	3.4	97
413	Phase diagram of In CoSb system and thermoelectric properties of In-containing skutterudites. *Energy and Environmental Science*, **2014**, 7, 812-819	35.4	96
412	Thermoelectric properties of p-type (Bi2Te3)x(Sb2Te3)1 crystals prepared via zone melting. *Journal of Crystal Growth*, **2005**, 277, 258-263	1.6	96
411	Flexible thermoelectrics: from silver chalcogenides to full-inorganic devices. *Energy and Environmental Science*, **2019**, 12, 2983-2990	35.4	95
410	Thermoelectric transport of Se-rich Ag2Se in normal phases and phase transitions. *Applied Physics Letters*, **2014**, 104, 133903	3.4	95
409	Realization of high thermoelectric performance in n-type partially filled skutterudites. *Journal of Materials Research*, **2011**, 26, 1745-1754	2.5	95
408	Fabrication and microstructure of p-type transparent conducting CuS thin film and its application in dye-sensitized solar cell. *Applied Physics Letters*, **2008**, 93, 132106	3.4	95
407	Rationalizing phonon dispersion for lattice thermal conductivity of solids. *National Science Review*, **2018**, 5, 888-894	10.8	95
406	Thermoelectric properties of p-type Fe-doped TiCoSb half-Heusler compounds. *Journal of Applied Physics*, **2007**, 102, 103705	2.5	94
405	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. *Energy and Environmental Science*, **2020**, 13, 1240-1249	35.4	94
404	Effect of TiC content on the microstructure and properties of Ti3SiC2 iC composites in situ fabricated by spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 487, 137-143	5.3	91
403	Engineering carrier scattering at the interfaces in polyaniline based nanocomposites for high thermoelectric performances. *Materials Chemistry Frontiers*, **2017**, 1, 741-748	7.8	90
402	Charge-Compensated Compound Defects in Ga-containing Thermoelectric Skutterudites. *Advanced Functional Materials*, **2013**, 23, 3194-3203	15.6	90

401	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. *Nano Energy*, **2017**, 41, 501-510	17.1	87
400	Effect of antisite defects on band structure and thermoelectric performance of ZrNiSn half-Heusler alloys. *Applied Physics Letters*, **2010**, 96, 152105	3.4	86
399	p-Type skutterudites RxMyFe3CoSb12 (R, M□=□Ba, Ce, Nd, and Yb): Effectiveness of double-filling for the lattice thermal conductivity reduction. *Intermetallics*, **2011**, 19, 1747-1751	3.5	84
398	Investigation of the Anisotropic Thermoelectric Properties of Oriented Polycrystalline SnSe. *Energies*, **2015**, 8, 6275-6285	3.1	83
397	Evaluating the potential for high thermoelectric efficiency of silver selenide. *Journal of Materials Chemistry C*, **2013**, 1, 7568	7.1	83
396	Solid-State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. *Advanced Materials*, **2017**, 29, 1701148	24	82
395	Effects of partial substitution of transition metals for cobalt on the high-temperature thermoelectric properties of Ca3Co4O9+□*Journal of Applied Physics*, **2005**, 97, 103905	2.5	81
394	Thermoelectric transport properties of diamond-like Cu1□Fe1+xS2 tetrahedral compounds. *Journal of Applied Physics*, **2014**, 116, 203705	2.5	78
393	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. *Energy and Environmental Science*, **2019**, 12, 3390-3399	35.4	77
392	Significant enhancement of figure-of-merit in carbon-reinforced Cu2Se nanocrystalline solids. *Nano Energy*, **2017**, 41, 164-171	17.1	76
391	The thermoelectric performance of ZrNiSn/ZrO2 composites. *Solid State Communications*, **2004**, 130, 181-185	1.6	76
390	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. *Joule*, **2019**, 3, 1538-1548	39.8	75
389	Enhanced stability and thermoelectric figure-of-merit in copper selenide by lithium doping. *Materials Today Physics*, **2017**, 1, 7-13	8	75
388	Rapid fabrication of Ti3SiC2□SiC nanocomposite using the spark plasma sintering-reactive synthesis (SPS-RS) method. *Scripta Materialia*, **2007**, 56, 241-244	5.6	74
387	Engineered Molecular Chain Ordering in Single-Walled Carbon Nanotubes/Polyaniline Composite Films for High-Performance Organic Thermoelectric Materials. *Chemistry - an Asian Journal*, **2016**, 11, 1804-10	4.5	72
386	Dense nanostructured solid electrolyte with high Li-ion conductivity by spark plasma sintering technique. *Materials Research Bulletin*, **2008**, 43, 2334-2341	5.1	71
385	Optimized thermoelectric properties of Mo3Sb7□Tex with significant phonon scattering by electrons. *Energy and Environmental Science*, **2011**, 4, 4086	35.4	70
384	Fabrication and thermoelectric properties of Ca3□DyxCo4O9+□system. *Journal of Alloys and Compounds*, **2004**, 376, 58-61	5.7	70

383	Interfacial evolution behavior and reliability evaluation of CoSb3/Ti/Mo□Cu thermoelectric joints during accelerated thermal aging. *Journal of Alloys and Compounds*, **2009**, 477, 425-431	5.7	69
382	Enhanced thermoelectric performance by the combination of alloying and doping in TiCoSb-based half-Heusler compounds. *Journal of Applied Physics*, **2009**, 106, 103703	2.5	69
381	Effect of plasma activated sintering (PAS) parameters on densification of copper powder. *Materials Research Bulletin*, **2000**, 35, 619-628	5.1	69
380	Effects of Ce filling fraction and Fe content on the thermoelectric properties of Co-rich CeyFexCo4□Sb12. *Journal of Materials Research*, **2001**, 16, 837-843	2.5	68
379	Recent Advances in Liquid-Like Thermoelectric Materials. *Advanced Functional Materials*, **2020**, 30, 1903867	15.6	67
378	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe1-xSex with refined band structures. *Nano Energy*, **2019**, 60, 1-7	17.1	66
377	Effects of nano-TiO2 dispersion on the thermoelectric properties offilled-skutterudite Ba0.22Co4Sb12. *Solid State Sciences*, **2009**, 11, 1612-1616	3.4	66
376	Superior performance and high service stability for GeTe-based thermoelectric compounds. *National Science Review*, **2019**, 6, 944-954	10.8	65
375	Experiment on thermal uniformity and pressure drop of exhaust heat exchanger for automotive thermoelectric generator. *Energy*, **2013**, 54, 372-377	7.9	65
374	Structure-transformation-induced abnormal thermoelectric properties in semiconductor copper selenide. *Materials Letters*, **2013**, 93, 121-124	3.3	65
373	Multiformity and fluctuation of Cu ordering in Cu2Se thermoelectric materials. *Journal of Materials Chemistry A*, **2015**, 3, 6901-6908	13	64
372	The □electron crystal□behavior in copper chalcogenides Cu2X (X = Se, S). *Journal of Materials Chemistry A*, **2017**, 5, 5098-5105	13	63
371	Copper chalcogenide thermoelectric materials. *Science China Materials*, **2019**, 62, 8-24	7.1	63
370	Joining of Mo to CoSb3 by spark plasma sintering by inserting a Ti interlayer. *Materials Letters*, **2004**, 58, 3876-3878	3.3	63
369	Moderate-temperature thermoelectric properties of TiCoSb-based half-Heusler compounds Ti1□TaxCoSb. *Journal of Applied Physics*, **2007**, 101, 113714	2.5	62
368	High temperature sublimation behavior of antimony in CoSb3 thermoelectric material during thermal duration test. *Journal of Alloys and Compounds*, **2011**, 509, 3166-3171	5.7	61
367	Dominant red emission (4F9/2-4I15/2) via upconversion in YAG (Y3Al5O12):Yb3+,Er3+ nanopowders. *Optical Materials*, **2007**, 29, 1352-1357	3.3	61
366	Cu8GeSe6-based thermoelectric materials with an argyrodite structure. *Journal of Materials Chemistry C*, **2017**, 5, 943-952	7.1	60

365	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. *Science*, **2020**, 369, 542-545	33.3	60
364	Two-dimensional thermoelectrics with Rashba spin-split bands in bulk BiTeI. *Physical Review B*, **2014**, 90,	3.3	59
363	Preparation of dense β-CaSiO3 ceramic with high mechanical strength and HAp formation ability in simulated body fluid. *Journal of the European Ceramic Society*, **2006**, 26, 1701-1706	6	59
362	Preparation and thermoelectric properties of SWCNT/PEDOT:PSS coated tellurium nanorod composite films. *Journal of Alloys and Compounds*, **2019**, 778, 163-169	5.7	59
361	Investigation of thermoelectric properties of Cu2GaxSn1−xSe3 diamond-like compounds by hot pressing and spark plasma sintering. *Acta Materialia*, **2013**, 61, 4297-4304	8.4	58
360	Thermoelectric performance of p-type Bi2Sb2Te3 materials prepared by spark plasma sintering. *Journal of Alloys and Compounds*, **2005**, 390, 208-211	5.7	58
359	Dielectric properties of SrBi2−xPrxNb2O9 ceramics (x=0, 0.04 and 0.2). *Solid State Communications*, **2005**, 133, 375-379	1.6	58
358	Electrical Transport Properties of Filled CoSb3 Skutterudites: A Theoretical Study. *Journal of Electronic Materials*, **2009**, 38, 1397-1401	1.9	57
357	Strong anisotropy in thermoelectric properties of CNT/PANI composites. *Carbon*, **2017**, 114, 1-7	10.4	56
356	Extremely low thermal conductivity and high thermoelectric performance in liquid-like Cu2Se1−xSx polymorphic materials. *Journal of Materials Chemistry A*, **2017**, 5, 18148-18156	13	56
355	Influence of fullerene dispersion on high temperature thermoelectric properties of BayCo4Sb12-based composites. *Journal of Applied Physics*, **2007**, 102, 103709	2.5	56
354	Effect of TeI4 content on the thermoelectric properties of n-type Bi2Te2.7Se0.3 crystals prepared by zone melting. *Materials Chemistry and Physics*, **2005**, 92, 39-42	4.4	56
353	An argyrodite-type AgGaSe liquid-like material with ultralow thermal conductivity and high thermoelectric performance. *Chemical Communications*, **2017**, 53, 11658-11661	5.8	55
352	Controllable synthesis and electrochemical hydrogen storage properties of Bi2Se3 architectural structures. *Chemical Communications*, **2010**, 46, 3101-3	5.8	55
351	Retention behavior of the electric-pulse-induced reversible resistance change effect in Ag/La0.7Ca0.3MnO3/Pt sandwiches. *Applied Physics Letters*, **2005**, 86, 172107	3.4	55
350	Preparation and thermoelectric properties of PEDOT:PSS coated Te nanorod/PEDOT:PSS composite films. *Organic Electronics*, **2019**, 64, 79-85	3.5	55
349	Enhanced thermoelectric properties of n-type Bi2Te3-based nanocomposite fabricated by spark plasma sintering. *Journal of Alloys and Compounds*, **2011**, 509, 4769-4773	5.7	54
348	Effects of partial substitution of Co by Ni on the high-temperature thermoelectric properties of TiCoSb-based half-Heusler compounds. *Journal of Alloys and Compounds*, **2005**, 391, 194-197	5.7	54

347	Construction of a 3D-rGO network-wrapping architecture in a YbyCo4Sb12/rGO composite for enhancing the thermoelectric performance. *Journal of Materials Chemistry A*, **2015**, 3, 8643-8649	13	53
346	Enhanced thermoelectric performance in Cd doped CuInTe2 compounds. *Journal of Applied Physics*, **2014**, 115, 163705	2.5	53
345	New monoclinic phase at the composition Cu2SnSe3 and its thermoelectric properties. *Inorganic Chemistry*, **2013**, 52, 11067-74	5.1	53
344	Numerical and experimental analysis for exhaust heat exchangers in automobile thermoelectric generators. *Case Studies in Thermal Engineering*, **2014**, 4, 99-112	5.6	52
343	Microstructure and properties of Ti3SiC2/SiC nanocomposites fabricated by spark plasma sintering. *Composites Science and Technology*, **2008**, 68, 499-505	8.6	52
342	The High Thermoelectric Properties of Conducting Polyaniline with Special Submicron-fibre Structure. *Chemistry Letters*, **2005**, 34, 522-523	1.7	52
341	Enhanced Thermoelectric Performance in n-Type BiTe-Based Alloys via Suppressing Intrinsic Excitation. *ACS Applied Materials & Interfaces*, **2018**, 10, 21372-21380	9.5	51
340	Rapidly sintering nanosized SiC particle reinforced TiC composites by the spark plasma sintering (SPS) technique. *Journal of Materials Science*, **2004**, 39, 4515-4519	4.3	51
339	Microstructure Contact Studies for Skutterudite Thermoelectric Devices. *International Journal of Applied Ceramic Technology*, **2012**, 9, 733-741	2	50
338	Infrared to visible upconversion luminescence in Er3+:Y2O3 transparent ceramics. *Journal of Luminescence*, **2007**, 122-123, 8-10	3.8	50
337	Facile Chemical Synthesis of Nanocrystalline Thermoelectric Alloys Based on Bi□Sb□Te□Se. *Crystal Growth and Design*, **2010**, 10, 3983-3989	3.5	49
336	Electronic quality factor for thermoelectrics. *Science Advances*, **2020**, 6,	14.3	49
335	Fabrication of a CoSb3-based thermoelectric module. *Materials Science in Semiconductor Processing*, **2010**, 13, 221-224	4.3	48
334	Disorder scattering effect on the high-temperature lattice thermal conductivity of TiCoSb-based half-Heusler compounds. *Journal of Applied Physics*, **2005**, 98, 013708	2.5	48
333	High temperature reliability evaluation of CoSb3/electrode thermoelectric joints. *Intermetallics*, **2009**, 17, 136-141	3.5	46
332	State of boron in chemical vapour-deposited SiC-B composite powders. *Journal of Materials Science Letters*, **1990**, 9, 997-999		46
331	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. *Nano Energy*, **2020**, 68, 104347	17.1	46
330	Thermoelectric properties of Cu2Se1□Tex solid solutions. *Journal of Materials Chemistry A*, **2018**, 6, 6977-6986	13	45

329	Thermoelectric properties of p-type YbxLayFe2.7Co1.3Sb12 double-filled skutterudites. *Intermetallics*, **2013**, 32, 209-213	3.5	45
328	Compound defects and thermoelectric properties in ternary CuAgSe-based materials. *Journal of Materials Chemistry A*, **2015**, 3, 13662-13670	13	45
327	Microwave-assisted synthesis and characterization of Bi2Te3 nanosheets and nanotubes. *Journal of Alloys and Compounds*, **2009**, 481, 91-95	5.7	45
326	Crystal structure across the □ to □ phase transition in thermoelectric Cu Se. *IUCrJ*, **2017**, 4, 476-485	4.7	44
325	High thermoelectric performance and low thermal conductivity in Cu2□S1/3Se1/3Te1/3 liquid-like materials with nanoscale mosaic structures. *Nano Energy*, **2017**, 42, 43-50	17.1	44
324	Syntheses, crystal and electronic structure, and some optical and transport properties of LnCuOTe (Ln=La, Ce, Nd). *Journal of Solid State Chemistry*, **2007**, 180, 62-69	3.3	44
323	Rapid Reactive Synthesis and Sintering of Submicron TiC/SiC Composites through Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2004**, 87, 1157-1160	3.8	44
322	Ultralow Lattice Thermal Conductivity and Superhigh Thermoelectric Figure-of-Merit in (Mg, Bi) Co-Doped GeTe. *Advanced Materials*, **2021**, 33, e2008773	24	44
321	Electrical and thermal transports of binary copper sulfides CuxS with x from 1.8 to 1.96. *APL Materials*, **2016**, 4, 104805	5.7	44
320	Thermoelectric properties of copper-deficient Cu2-Se (0.05 □x □0.25) binary compounds. *Ceramics International*, **2017**, 43, 11142-11148	5.1	43
319	High temperature oxidation behavior of cobalt triantimonide thermoelectric material. *Journal of Alloys and Compounds*, **2010**, 504, 552-558	5.7	43
318	Microstructure and properties of Al2O3□TiC nanocomposites fabricated by spark plasma sintering from high-energy ball milled reactants. *Journal of the European Ceramic Society*, **2006**, 26, 3393-3397	6	43
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