Lidong Chen

List of Publications by Year
in descending order

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506 papers	41,571 citations	2215 99 h-index	3261 185 g-index
518 all docs	518 docs citations	518 times ranked	18400 citing authors

#	Article	IF	Citations
1	Convergence of electronic bands for high performance bulk thermoelectrics. Nature, 2011, 473, 66-69.	27.8	3,306
2	Copper ion liquid-like thermoelectrics. Nature Materials, 2012, 11, 422-425.	27.5	1,700
3	Multiple-Filled Skutterudites: High Thermoelectric Figure of Merit through Separately Optimizing Electrical and Thermal Transports. Journal of the American Chemical Society, 2011, 133, 7837-7846.	13.7	1,242
4	Research progress on conducting polymer based supercapacitor electrode materials. Nano Energy, 2017, 36, 268-285.	16.0	1,035
5	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. Nature Communications, 2015, 6, 8144.	12.8	893
6	High Thermoelectric Performance in Nonâ€Toxic Earthâ€Abundant Copper Sulfide. Advanced Materials, 2014, 26, 3974-3978.	21.0	631
7	Enhanced Thermoelectric Performance of Single-Walled Carbon Nanotubes/Polyaniline Hybrid Nanocomposites. ACS Nano, 2010, 4, 2445-2451.	14.6	605
8	High-entropy-stabilized chalcogenides with high thermoelectric performance. Science, 2021, 371, 830-834.	12.6	546
9	Evaluation of Halfâ€Heusler Compounds as Thermoelectric Materials Based on the Calculated Electrical Transport Properties. Advanced Functional Materials, 2008, 18, 2880-2888.	14.9	486
10	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. Advanced Materials, 2019, 31, e1807916.	21.0	419
11	Anomalous barium filling fraction andn-type thermoelectric performance of BayCo4Sb12. Journal of Applied Physics, 2001, 90, 1864-1868.	2.5	418
12	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	24.0	402
13	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theoryâ€“experiment perspective. Npj Computational Materials, 2016, 2, .	8.7	399
14	Ultrahigh Thermoelectric Performance by Electron and Phonon Critical Scattering in Cu₂Se_{1â€x}I_x. Advanced Materials, 2013, 25, 6607-6612.	21.0	394
15	Recent advances in high-performance bulk thermoelectric materials. International Materials Reviews, 2016, 61, 379-415.	19.3	394
16	Enhanced Seebeck coefficient through energy-barrier scattering in PbTe nanocomposites. Physical Review B, 2009, 79, .	3.2	389
17	Stabilizing the Optimal Carrier Concentration for High Thermoelectric Efficiency. Advanced Materials, 2011, 23, 5674-5678.	21.0	378
18	Strain field fluctuation effects on lattice thermal conductivity of ZrNiSn-based thermoelectric compounds. Applied Physics Letters, 2004, 85, 1140-1142.	3.3	368

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19	Low thermal conductivity and high thermoelectric figure of merit in n-type BaxYbyCo4Sb12 double-filled skutterudites. Applied Physics Letters, 2008, 92, .	3.3	366
20	High efficiency Bi₂Te₃-based materials and devices for thermoelectric power generation between 100 and 300 Â°C. Energy and Environmental Science, 2016, 9, 3120-3127.	30.8	358
21	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.	3.3	355
22	Lattice Strain Advances Thermoelectrics. Joule, 2019, 3, 1276-1288.	24.0	333
23	Preparation and electrical properties of graphene nanosheet/Al2O3 composites. Carbon, 2010, 48, 1743-1749.	10.3	315
24	Thermoelectrics: Direct Solar Thermal Energy Conversion. MRS Bulletin, 2008, 33, 366-368.	3.5	312
25	Improved Thermoelectric Properties of Cuâ€Doped Quaternary Chalcogenides of Cu₂CdSnSe₄. Advanced Materials, 2009, 21, 3808-3812.	21.0	312
26	Deposition and electrical properties of Nâ€“In codopedp-type ZnO films by ultrasonic spray pyrolysis. Applied Physics Letters, 2004, 84, 541-543.	3.3	310
27	Thermoelectric Devices for Power Generation: Recent Progress and Future Challenges. Advanced Engineering Materials, 2016, 18, 194-213.	3.5	307
28	Ultrahigh thermoelectric performance in Cu₂Se-based hybrid materials with highly dispersed molecular CNTs. Energy and Environmental Science, 2017, 10, 1928-1935.	30.8	298
29	A wide-band-gap p-type thermoelectric material based on quaternary chalcogenides of Cu2ZnSnQ4â€ˆ(Q=S,Se). Applied Physics Letters, 2009, 94, .	3.3	292
30	High performance n-type Ag2Se film on nylon membrane for flexible thermoelectric power generator. Nature Communications, 2019, 10, 841.	12.8	291
31	Abnormally enhanced thermoelectric transport properties of SWNT/PANI hybrid films by the strengthened PANI molecular ordering. Energy and Environmental Science, 2014, 7, 3801-3807.	30.8	285
32	Measuring thermoelectric transport properties of materials. Energy and Environmental Science, 2015, 8, 423-435.	30.8	275
33	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.	30.8	274
34	Highâ€Performance Pseudocubic Thermoelectric Materials from Nonâ€cubic Chalcopyrite Compounds. Advanced Materials, 2014, 26, 3848-3853.	21.0	269
35	Room-temperature ductile inorganic semiconductor. Nature Materials, 2018, 17, 421-426.	27.5	262
36	Skutterudite with graphene-modified grain-boundary complexion enhances zT enabling high-efficiency thermoelectric device. Energy and Environmental Science, 2017, 10, 183-191.	30.8	252

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37	Cu-based thermoelectric materials. Energy Storage Materials, 2016, 3, 85-97.	18.0	247
38	Improved Thermoelectric Performance of Silver Nanoparticlesâ€Dispersed Bi₂Te₃ Composites Deriving from Hierarchical Twoâ€Phased Heterostructure. Advanced Functional Materials, 2015, 25, 966-976.	14.9	243
39	Enhanced thermoelectric properties of CNT/PANI composite nanofibers by highly orienting the arrangement of polymer chains. Journal of Materials Chemistry, 2012, 22, 17612.	6.7	236
40	Thermoelectric materials step up. Nature Materials, 2016, 15, 691-692.	27.5	236
41	Thermoelectric properties of then-type filled skutterudite Ba0.3Co4Sb12 doped with Ni. Journal of Applied Physics, 2002, 91, 3698-3705.	2.5	232
42	PANI/graphene nanocomposite films with high thermoelectric properties by enhanced molecular ordering. Journal of Materials Chemistry A, 2015, 3, 7086-7092.	10.3	224
43	Thermoelectric properties of tetrahedrally bonded wide-gap stannite compounds Cu2ZnSn1â^'xInxSe4. Applied Physics Letters, 2009, 94, .	3.3	221
44	Ternary compound CuInTe2: a promising thermoelectric material with diamond-like structure. Chemical Communications, 2012, 48, 3818.	4.1	221
45	Entropy as a Geneâ€Like Performance Indicator Promoting Thermoelectric Materials. Advanced Materials, 2017, 29, 1702712.	21.0	218
46	Dual-frequency resonant phonon scattering in BaxRyCo4Sb12 (R=La, Ce, and Sr). Applied Physics Letters, 2007, 90, 192111.	3.3	213
47	On the Design of Highâ€Efficiency Thermoelectric Clathrates through a Systematic Crossâ€Substitution of Framework Elements. Advanced Functional Materials, 2010, 20, 755-763.	14.9	195
48	Ultrahigh Thermoelectric Performance in Mosaic Crystals. Advanced Materials, 2015, 27, 3639-3644.	21.0	195
49	Sulfide bornite thermoelectric material: a natural mineral with ultralow thermal conductivity. Energy and Environmental Science, 2014, 7, 4000-4006.	30.8	193
50	Cuâ^'Se Bond Network and Thermoelectric Compounds with Complex Diamondlike Structure. Chemistry of Materials, 2010, 22, 6029-6031.	6.7	189
51	Flexible thermoelectrics: from silver chalcogenides to full-inorganic devices. Energy and Environmental Science, 2019, 12, 2983-2990.	30.8	188
52	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu₂Se_{1â€“x}S_x Liquid-like Materials. Chemistry of Materials, 2017, 29, 6367-6377.	6.7	179
53	Filling Fraction Limit for Intrinsic Voids in Crystals: Doping in Skutterudites. Physical Review Letters, 2005, 95, 185503.	7.8	177
54	High thermoelectric performance of Yb0.26Co4Sb12/yGaSb nanocomposites originating from scattering electrons of low energy. Acta Materialia, 2010, 58, 3995-4002.	7.9	170

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55	High thermoelectric performance in copper telluride. NPG Asia Materials, 2015, 7, e210-e210.	7.9	170
56	Resonant level-induced high thermoelectric response in indium-doped GeTe. NPG Asia Materials, 2017, 9, e343-e343.	7.9	170
57	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. Energy and Environmental Science, 2020, 13, 1240-1249.	30.8	165
58	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. Science, 2020, 369, 542-545.	12.6	163
59	Synthesis and thermoelectric properties of KyCo4Sb12. Applied Physics Letters, 2006, 89, 221107.	3.3	153
60	Good Performance and Flexible PEDOT:PSS/Cu₂Se Nanowire Thermoelectric Composite Films. ACS Applied Materials & Interfaces, 2019, 11, 12819-12829.	8.0	153
61	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.	3.5	151
62	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. Nature Communications, 2018, 9, 2910.	12.8	148
63	Recent Advances in Liquidâ€Like Thermoelectric Materials. Advanced Functional Materials, 2020, 30, 1903867.	14.9	148
64	Thermoelectric transport of Se-rich Ag2Se in normal phases and phase transitions. Applied Physics Letters, 2014, 104, .	3.3	142
65	Enhanced thermoelectric performance of dual-element-filled skutterudites BaxCeyCo4Sb12. Acta Materialia, 2009, 57, 3135-3139.	7.9	140
66	Densification of Al₂O₃ Powder Using Spark Plasma Sintering. Journal of Materials Research, 2000, 15, 982-987.	2.6	139
67	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. Energy and Environmental Science, 2019, 12, 3390-3399.	30.8	135
68	Synthesis and thermoelectric properties of p-type- and n-type-filled skutterudite RyMxCo4â^'xSb12(R:Ce,Ba,Y;M:Fe,Ni). Journal of Applied Physics, 2005, 97, 093712.	2.5	133
69	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.	2.2	131
70	Highly anisotropic P3HT films with enhanced thermoelectric performance via organic small molecule epitaxy. NPG Asia Materials, 2016, 8, e292-e292.	7.9	131
71	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. Nano Energy, 2017, 41, 501-510.	16.0	130
72	Ultrahigh thermoelectric performance in Cu 2â^'y Se 0.5 S 0.5 liquid-like materials. Materials Today Physics, 2017, 1, 14-23.	6.0	130

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73	Rationalizing phonon dispersion for lattice thermal conductivity of solids. National Science Review, 2018, 5, 888-894.	9.5	129
74	High-temperature thermoelectric properties of Ca3Co4O9+Î´ with Eu substitution. Solid State Communications, 2004, 129, 615-618.	1.9	128
75	PbTe nanocomposites synthesized from PbTe nanocrystals. Applied Physics Letters, 2007, 90, 222112.	3.3	127
76	Forming-free colossal resistive switching effect in rare-earth-oxide Gd2O3 films for memristor applications. Journal of Applied Physics, 2009, 106, .	2.5	126
77	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.	10.3	126
78	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. Joule, 2019, 3, 1538-1548.	24.0	126
79	Large thermoelectric power factor in polyaniline/graphene nanocomposite films prepared by solution-assistant dispersing method. Journal of Materials Chemistry A, 2014, 2, 11107.	10.3	120
80	Superlow Thermal Conductivity 3D Carbon Nanotube Network for Thermoelectric Applications. ACS Applied Materials & Interfaces, 2012, 4, 81-86.	8.0	117
81	Phase diagram of Inâ€“Coâ€“Sb system and thermoelectric properties of In-containing skutterudites. Energy and Environmental Science, 2014, 7, 812-819.	30.8	116
82	Thermoelectric properties of p-type (Bi2Te3)x(Sb2Te3)1â^'x crystals prepared via zone melting. Journal of Crystal Growth, 2005, 277, 258-263.	1.5	115
83	Transport Properties of Bulk Thermoelectricsâ€”An International Round-Robin Study, Part I: Seebeck Coefficient and Electrical Resistivity. Journal of Electronic Materials, 2013, 42, 654-664.	2.2	115
84	Upconversion Luminescence in Er³⁺ Doped and Yb³⁺/Er³⁺ Codoped Yttria Nanocrystalline Powders. Journal of the American Ceramic Society, 2004, 87, 1072-1075.	3.8	114
85	Thermoelectric properties of p-type Fe-doped TiCoSb half-Heusler compounds. Journal of Applied Physics, 2007, 102, .	2.5	113
86	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.	6.7	112
87	Realization of high thermoelectric performance in n-type partially filled skutterudites. Journal of Materials Research, 2011, 26, 1745-1754.	2.6	112
88	Ultralow Lattice Thermal Conductivity and Superhigh Thermoelectric Figureâ€ofâ€Merit in (Mg, Bi) Coâ€Doped GeTe. Advanced Materials, 2021, 33, e2008773.	21.0	112
89	Copper chalcogenide thermoelectric materials. Science China Materials, 2019, 62, 8-24.	6.3	111
90	Solidâ€State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. Advanced Materials, 2017, 29, 1701148.	21.0	110

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91	Thermoelectric properties of textured p-type (Bi,Sb)2Te3 fabricated by spark plasma sintering. Scripta Materialia, 2005, 52, 347-351.	5.2	108
92	Assembly of one-dimensional nanorods into Bi2S3 films with enhanced thermoelectric transport properties. Applied Physics Letters, 2007, 90, 112106.	3.3	108
93	Chargeâ€Compensated Compound Defects in Gaâ€containing Thermoelectric Skutterudites. Advanced Functional Materials, 2013, 23, 3194-3203.	14.9	108
94	Enhanced thermoelectric figure of merit of CoSb3 via large-defect scattering. Applied Physics Letters, 2004, 84, 2301-2303.	3.3	107
95	Engineering carrier scattering at the interfaces in polyaniline based nanocomposites for high thermoelectric performances. Materials Chemistry Frontiers, 2017, 1, 741-748.	5.9	107
96	Effect of TiC content on the microstructure and properties of Ti3SiC2â€“TiC composites in situ fabricated by spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 137-143.	5.6	106
97	Effect of antisite defects on band structure and thermoelectric performance of ZrNiSn half-Heusler alloys. Applied Physics Letters, 2010, 96, .	3.3	106
98	Cu₂Se-Based liquid-like thermoelectric materials: looking back and stepping forward. Energy and Environmental Science, 2020, 13, 3307-3329.	30.8	106
99	Evaluating the potential for high thermoelectric efficiency of silver selenide. Journal of Materials Chemistry C, 2013, 1, 7568.	5.5	105
100	Thermoelectric transport properties of diamond-like Cu1â^'xFe1+xS2 tetrahedral compounds. Journal of Applied Physics, 2014, 116, .	2.5	104
101	Significant enhancement of figure-of-merit in carbon-reinforced Cu2Se nanocrystalline solids. Nano Energy, 2017, 41, 164-171.	16.0	103
102	Fabrication and microstructure of p-type transparent conducting CuS thin film and its application in dye-sensitized solar cell. Applied Physics Letters, 2008, 93, .	3.3	102
103	Electrode interface optimization advances conversion efficiency and stability of thermoelectric devices. Nature Communications, 2020, 11, 2723.	12.8	101
104	High efficiency GeTe-based materials and modules for thermoelectric power generation. Energy and Environmental Science, 2021, 14, 995-1003.	30.8	101
105	Investigation of the Anisotropic Thermoelectric Properties of Oriented Polycrystalline SnSe. Energies, 2015, 8, 6275-6285.	3.1	99
106	Dense nanostructured solid electrolyte with high Li-ion conductivity by spark plasma sintering technique. Materials Research Bulletin, 2008, 43, 2334-2341.	5.2	97
107	Superior performance and high service stability for GeTe-based thermoelectric compounds. National Science Review, 2019, 6, 944-954.	9.5	96
108	Cu₈GeSe₆-based thermoelectric materials with an argyrodite structure. Journal of Materials Chemistry C, 2017, 5, 943-952.	5.5	93

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109	Enhanced stability and thermoelectric figure-of-merit in copper selenide by lithium doping. Materials Today Physics, 2017, 1, 7-13.	6.0	93
110	Enhanced thermoelectric performance by the combination of alloying and doping in TiCoSb-based half-Heusler compounds. Journal of Applied Physics, 2009, 106, .	2.5	92
111	p-Type skutterudites RxMyFe3CoSb12 (R, MÂ=ÂBa, Ce, Nd, and Yb): Effectiveness of double-filling for the lattice thermal conductivity reduction. Intermetallics, 2011, 19, 1747-1751.	3.9	92
112	Engineered Molecular Chain Ordering in Singleâ€Walled Carbon Nanotubes/Polyaniline Composite Films for Highâ€Performance Organic Thermoelectric Materials. Chemistry - an Asian Journal, 2016, 11, 1804-1810.	3.3	90
113	Electronic quality factor for thermoelectrics. Science Advances, 2020, 6, .	10.3	88
114	Extremely low thermal conductivity and high thermoelectric performance in liquid-like Cu₂Se_{1â^'x}S_x polymorphic materials. Journal of Materials Chemistry A, 2017, 5, 18148-18156.	10.3	86
115	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe1-xSex with refined band structures. Nano Energy, 2019, 60, 1-7.	16.0	86
116	Effects of partial substitution of transition metals for cobalt on the high-temperature thermoelectric properties of Ca3Co4O9+Î´. Journal of Applied Physics, 2005, 97, 103905.	2.5	85
117	Halfâ€Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. Advanced Energy Materials, 2020, 10, 2000888.	19.5	85
118	The thermoelectric performance of ZrNiSn/ZrO2 composites. Solid State Communications, 2004, 130, 181-185.	1.9	84
119	Rapid fabrication of Ti3SiC2â€“SiC nanocomposite using the spark plasma sintering-reactive synthesis (SPS-RS) method. Scripta Materialia, 2007, 56, 241-244.	5.2	84
120	An argyrodite-type Ag₉GaSe₆ liquid-like material with ultralow thermal conductivity and high thermoelectric performance. Chemical Communications, 2017, 53, 11658-11661.	4.1	84
121	Experiment on thermal uniformity and pressure drop of exhaust heat exchanger for automotive thermoelectric generator. Energy, 2013, 54, 372-377.	8.8	81
122	Numerical and experimental analysis for exhaust heat exchangers in automobile thermoelectric generators. Case Studies in Thermal Engineering, 2014, 4, 99-112.	5.7	81
123	The â€œelectron crystalâ€•behavior in copper chalcogenides Cu₂X (X = Se, S). Journal of Materials Chemistry A, 2017, 5, 5098-5105.	10.3	81
124	Interfacial evolution behavior and reliability evaluation of CoSb3/Ti/Moâ€“Cu thermoelectric joints during accelerated thermal aging. Journal of Alloys and Compounds, 2009, 477, 425-431.	5.5	80
125	Multiformity and fluctuation of Cu ordering in Cu₂Se thermoelectric materials. Journal of Materials Chemistry A, 2015, 3, 6901-6908.	10.3	80
126	Thermal Conductivity during Phase Transitions. Advanced Materials, 2019, 31, e1806518.	21.0	80

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127	Preparation and thermoelectric properties of SWCNT/PEDOT:PSS coated tellurium nanorod composite films. Journal of Alloys and Compounds, 2019, 778, 163-169.	5.5	80
128	Preparation and thermoelectric properties of PEDOT:PSS coated Te nanorod/PEDOT:PSS composite films. Organic Electronics, 2019, 64, 79-85.	2.6	80
129	Effect of plasma activated sintering (PAS) parameters on densification of copper powder. Materials Research Bulletin, 2000, 35, 619-628.	5.2	77
130	Moderate-temperature thermoelectric properties of TiCoSb-based half-Heusler compounds Ti1â^'xTaxCoSb. Journal of Applied Physics, 2007, 101, 113714.	2.5	77
131	Optimized thermoelectric properties of Mo3Sb7â^'xTex with significant phonon scattering by electrons. Energy and Environmental Science, 2011, 4, 4086.	30.8	77
132	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. Nano Energy, 2020, 68, 104347.	16.0	77
133	Enhanced Thermoelectric Performance in n-Type Bi₂Te₃-Based Alloys via Suppressing Intrinsic Excitation. ACS Applied Materials & Interfaces, 2018, 10, 21372-21380.	8.0	76
134	Structure-transformation-induced abnormal thermoelectric properties in semiconductor copper selenide. Materials Letters, 2013, 93, 121-124.	2.6	75
135	Effects of Ce filling fraction and Fe content on the thermoelectric properties of Co-rich Ce_yFe_xCo_{4â^'x}Sb₁₂. Journal of Materials Research, 2001, 16, 837-843.	2.6	74
136	Two-dimensional thermoelectrics with Rashba spin-split bands in bulk BiTeI. Physical Review B, 2014, 90, .	3.2	74
137	Recent Developments in Flexible Thermoelectric Devices. Small Science, 2021, 1, 2100005.	9.9	74
138	High thermoelectric performance and low thermal conductivity in Cu2â^'yS1/3Se1/3Te1/3 liquid-like materials with nanoscale mosaic structures. Nano Energy, 2017, 42, 43-50.	16.0	73
139	Are Cu₂Teâ€Based Compounds Excellent Thermoelectric Materials?. Advanced Materials, 2019, 31, e1903480.	21.0	72
140	Fabrication and thermoelectric properties of Ca3â^'xDyxCo4O9+Î´ system. Journal of Alloys and Compounds, 2004, 376, 58-61.	5.5	71
141	Construction of a 3D-rGO network-wrapping architecture in a Yb_yCo₄Sb₁₂/rGO composite for enhancing the thermoelectric performance. Journal of Materials Chemistry A, 2015, 3, 8643-8649.	10.3	71
142	Joining of Mo to CoSb3 by spark plasma sintering by inserting a Ti interlayer. Materials Letters, 2004, 58, 3876-3878.	2.6	70
143	Effects of nano-TiO2 dispersion on the thermoelectric properties offilled-skutterudite Ba0.22Co4Sb12. Solid State Sciences, 2009, 11, 1612-1616.	3.2	70
144	Thermoelectric properties of Cu₂Se_{1â^'x}Te_x solid solutions. Journal of Materials Chemistry A, 2018, 6, 6977-6986.	10.3	70

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145	Electrical Transport Properties of Filled CoSb3 Skutterudites: A Theoretical Study. Journal of Electronic Materials, 2009, 38, 1397-1401.	2.2	69
146	Strong anisotropy in thermoelectric properties of CNT/PANI composites. Carbon, 2017, 114, 1-7.	10.3	69
147	High temperature sublimation behavior of antimony in CoSb3 thermoelectric material during thermal duration test. Journal of Alloys and Compounds, 2011, 509, 3166-3171.	5.5	68
148	Enhanced thermoelectric performance in Cd doped CuInTe2 compounds. Journal of Applied Physics, 2014, 115, .	2.5	68
149	Thermoelectric properties of copper-deficient Cu2-Se (0.05 â‰ x â‰ 0.25) binary compounds. Ceramics International, 2017, 43, 11142-11148.	4.8	67
150	Conformal organicâ€“inorganic semiconductor composites for flexible thermoelectrics. Energy and Environmental Science, 2020, 13, 511-518.	30.8	67
151	Dielectric properties of SrBi2â^'xPrxNb2O9 ceramics (x=0, 0.04 and 0.2). Solid State Communications, 2005, 133, 375-379.	1.9	66
152	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.	5.5	66
153	Preparation of dense Î²-CaSiO3 ceramic with high mechanical strength and HAp formation ability in simulated body fluid. Journal of the European Ceramic Society, 2006, 26, 1701-1706.	5.7	66
154	Dominant red emission (4F9/2â†'4I15/2) via upconversion in YAG (Y3Al5O12):Yb3+,Er3+ nanopowders. Optical Materials, 2007, 29, 1352-1357.	3.6	66
155	Intrinsically High Thermoelectric Performance in AgInSe₂ nâ€Type Diamondâ€Like Compounds. Advanced Science, 2018, 5, 1700727.	11.2	66
156	Investigation of thermoelectric properties of Cu2GaxSn1â^'xSe3 diamond-like compounds by hot pressing and spark plasma sintering. Acta Materialia, 2013, 61, 4297-4304.	7.9	65
157	Crystal structure across the Î² to Î± phase transition in thermoelectric Cu_{2â^'x}Se. IUCrJ, 2017, 4, 476-485.	2.2	65
158	How to Measure Thermoelectric Properties Reliably. Joule, 2018, 2, 2183-2188.	24.0	65
159	Ductile Ag₂₀S₇Te₃ with Excellent Shapeâ€Conformability and High Thermoelectric Performance. Advanced Materials, 2021, 33, e2007681.	21.0	65
160	New Monoclinic Phase at the Composition Cu₂SnSe₃ and Its Thermoelectric Properties. Inorganic Chemistry, 2013, 52, 11067-11074.	4.0	64
161	A Device-to-Material Strategy Guiding the â€œDouble-Highâ€•Thermoelectric Module. Joule, 2020, 4, 2475-2483.	24.0	64
162	Thermoelectric performance of p-type Biâ€“Sbâ€“Te materials prepared by spark plasma sintering. Journal of Alloys and Compounds, 2005, 390, 208-211.	5.5	62

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163	Enhanced thermoelectric properties of n-type Bi2Te3-based nanocomposite fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2011, 509, 4769-4773.	5.5	62
164	The High Thermoelectric Properties of Conducting Polyaniline with Special Submicron-fibre Structure. Chemistry Letters, 2005, 34, 522-523.	1.3	61
165	Effect of TeI4 content on the thermoelectric properties of n-type Biâ€“Teâ€“Se crystals prepared by zone melting. Materials Chemistry and Physics, 2005, 92, 39-42.	4.0	61
166	Rapidly sintering nanosized SiC particle reinforced TiC composites by the spark plasma sintering (SPS) technique. Journal of Materials Science, 2004, 39, 4515-4519.	3.7	60
167	Retention behavior of the electric-pulse-induced reversible resistance change effect in Agâ€“La0.7Ca0.3MnO3â€“Pt sandwiches. Applied Physics Letters, 2005, 86, 172107.	3.3	60
168	High temperature reliability evaluation of CoSb3/electrode thermoelectric joints. Intermetallics, 2009, 17, 136-141.	3.9	60
169	Controllable synthesis and electrochemical hydrogen storage properties of Bi2Se3 architectural structures. Chemical Communications, 2010, 46, 3101.	4.1	60
170	Influence of fullerene dispersion on high temperature thermoelectric properties of BayCo4Sb12-based composites. Journal of Applied Physics, 2007, 102, 103709.	2.5	59
171	Electrical and thermal transports of binary copper sulfides CuxS with x from 1.8 to 1.96. APL Materials, 2016, 4, .	5.1	59
172	Infrared to visible upconversion luminescence in Er3+:Y2O3 transparent ceramics. Journal of Luminescence, 2007, 122-123, 8-10.	3.1	58
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