Lidong Chen

List of Publications by Year
in descending order

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506 papers	41,571 citations	98 h-index	184 g-index
		2696	3844
518 all docs	518 docs citations	518 times ranked	20842 citing authors

#	Article	IF	Citations
1	Entropy engineering induced exceptional thermoelectric and mechanical performances in Cu2-Ag Te1-2S Se. Acta Materialia, 2022, 224, 117512.	3.8	36
2	Enhanced thermal stability and oxidation resistance in La3-Te4 by compositing metallic nickel particles. Acta Materialia, 2022, 224, 117526.	3.8	6
3	Phase-modulated mechanical and thermoelectric properties of Ag2S1-xTex ductile semiconductors. Journal of Materiomics, 2022, 8, 656-661.	2.8	31
4	Novel meta-phase arising from large atomic size mismatch. Matter, 2022, 5, 605-615.	5.0	20
5	Optimized thermoelectric properties of Bi_{0.48}Sb_{1.52}Te₃/BN composites. Journal of Materials Chemistry C, 2022, 10, 3172-3177.	2.7	5
6	A high-efficiency GeTe-based thermoelectric module for low-grade heat recovery. Journal of Materials Chemistry A, 2022, 10, 7677-7683.	5.2	9
7	Weak donor-like effect to enhance the thermoelectric performance of Bi₂Te2.79Se0.21 near room temperature. Functional Materials Letters, 2022, 15, .	0.7	0
8	Exceptionally Heavy Doping Boosts the Performance of Iron Silicide for Refractory Thermoelectrics. Advanced Energy Materials, 2022, 12, .	10.2	17
9	Structural Modularization of Cu₂Te Leading to High Thermoelectric Performance near the Mottâ€“Ioffeâ€“Regel Limit. Advanced Materials, 2022, 34, e2108573.	11.1	20
10	Phase Transition Behaviors and Thermoelectric Properties of CuAgTe_{1â€“x}Se_x near 400 K. ACS Applied Materials & Interfaces, 2022, 14, 1015-1023.	4.0	6
11	High-Throughput Screening for Thermoelectric Semiconductors with Desired Conduction Types by Energy Positions of Band Edges. Journal of the American Chemical Society, 2022, 144, 8030-8037.	6.6	13
12	Influence of Solvent-Dependent Morphology on Molecular Doping and Charge Transport in Conductive Thiophene Polymer. Materials, 2022, 15, 3293.	1.3	1
13	Vapor phase polymerization of Ag QD-embedded PEDOT film with enhanced thermoelectric and antibacterial properties. NPG Asia Materials, 2022, 14, .	3.8	3
14	High-Performance and Stable (Ag, Cd)-Containing ZnSb Thermoelectric Compounds. ACS Applied Materials & Interfaces, 2022, 14, 26662-26670.	4.0	6
15	Roomâ€temperature plastic inorganic semiconductors for flexible and deformable electronics. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 22-35.	8.5	55
16	Organic thermoelectric materials. , 2021, , 183-219.		9
17	Design and fabrication of thermoelectric devices. , 2021, , 221-267.		2
18	Strategies to optimize thermoelectric performance. , 2021, , 19-50.		1

#	Article	IF	Citations
19	Measurement of thermoelectric properties. , 2021, , 51-80.		0
20	Review of inorganic thermoelectric materials. , 2021, , 81-145.		1
21	Segmented modules. , 2021, , 469-492.		1
22	High efficiency GeTe-based materials and modules for thermoelectric power generation. Energy and Environmental Science, 2021, 14, 995-1003.	15.6	101
23	Refined band structure plus enhanced phonon scattering realizes thermoelectric performance optimization in Culâ€“Mn codoped SnTe. Journal of Materials Chemistry A, 2021, 9, 13065-13070.	5.2	30
24	Ductile Ag₂₀S₇Te₃ with Excellent Shapeâ€Conformability and High Thermoelectric Performance. Advanced Materials, 2021, 33, e2007681.	11.1	65
25	High-entropy-stabilized chalcogenides with high thermoelectric performance. Science, 2021, 371, 830-834.	6.0	546
26	Anion-Dependent Molecular Doping and Charge Transport in Ferric Salt-Doped P3HT for Thermoelectric Application. ACS Applied Electronic Materials, 2021, 3, 1252-1259.	2.0	22
27	Ultralow Lattice Thermal Conductivity and Superhigh Thermoelectric Figureâ€ofâ€Merit in (Mg, Bi) Coâ€Doped GeTe. Advanced Materials, 2021, 33, e2008773.	11.1	112
28	Effect of Cu-doping on the magnetic and electrical transport properties of three-quarter Heusler alloy ZrCo1.5Sn. Journal of Applied Physics, 2021, 129, 125106.	1.1	3
29	Synergistically Optimized Electrical and Thermal Transport Properties in Copper Phthalocyanine-Based Organic Small Molecule with Nanoscale Phase Separations. ACS Applied Materials & Interfaces, 2021, 13, 15064-15072.	4.0	5
30	pâ€Type Plastic Inorganic Thermoelectric Materials. Advanced Energy Materials, 2021, 11, 2100883.	10.2	40
31	Enhanced Thermoelectric Performance in Ge_{0.955â˜}_xSb_xTe/FeGe₂ Composites Enabled by Hierarchical Defects. Small, 2021, 17, e2100915.	5.2	8
32	Recent Developments in Flexible Thermoelectric Devices. Small Science, 2021, 1, 2100005.	5.8	74
33	Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. Joule, 2021, 5, 1183-1195.	11.7	27
34	Enhanced Thermoelectric and Mechanical Performances in Sintered Bi_{0.48}Sb_{1.52}Te₃â€“AgSbSe₂ Composite. ACS Applied Materials & Interfaces, 2021, 13, 24937-24944.	4.0	23
35	Transparent Powerâ€Generating Windows Based on Solarâ€Thermalâ€Electric Conversion. Advanced Energy Materials, 2021, 11, 2101213.	10.2	21
36	Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal Mg2Pb for cryogenic heat pumping. Nature Communications, 2021, 12, 3837.	5.8	24

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37	Nano-scale compositional oscillation and phase intergrowth in Cu2S0.5Se0.5 and their role in thermal transport. Journal of Materials Science and Technology, 2021, 79, 222-229.	5.6	3
38	Investigation on Low-Temperature Thermoelectric Properties of Ag₂Se Polycrystal Fabricated by Using Zone-Melting Method. Journal of Physical Chemistry Letters, 2021, 12, 8246-8255.	2.1	37
39	Enhanced thermoelectric performance in ductile Ag2S-based materials via doping iodine. Applied Physics Letters, 2021, 119, .	1.5	22
40	Expand band gap and suppress bipolar excitation to optimize thermoelectric performance of Bi0.35Sb1.65Te3 sintered materials. Materials Today Physics, 2021, 21, 100544.	2.9	15
41	Intrinsic lamellar defects containing atomic Cu in Cu₂X (X = S, Se) thermoelectric materials. Journal of Materials Chemistry C, 2021, 9, 4173-4181.	2.7	7
42	Low-dimensional and nanocomposite thermoelectric materials. , 2021, , 147-182.		0
43	A low-cost and eco-friendly Br-doped Cu₇Sn₃S₁₀ thermoelectric compound with zT around unity. Journal of Materials Chemistry A, 2021, 9, 7946-7954.	5.2	23
44	Thermoelectric properties and service stability of Ag-containing Cu2Se. Materials Today Physics, 2021, 21, 100550.	2.9	15
45	High-performance n-type Ta₄SiTe₄/polyvinylidene fluoride (PVDF)/graphdiyne organicâ€“inorganic flexible thermoelectric composites. Energy and Environmental Science, 2021, 14, 6586-6594.	15.6	19
46	Optimized Thermoelectric Properties of Bi_{0.48}Sb_{1.52}Te₃ through AgCuTe Doping for Low-Grade Heat Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 57514-57520.	4.0	19
47	Significantly Enhanced Thermoelectric Properties of Copper Phthalocyanine/Single-Walled Carbon Nanotube Hybrids by Iodine Doping. ACS Applied Materials & Interfaces, 2021, 13, 55156-55163.	4.0	5
48	Unusually high Seebeck coefficient arising from temperature-dependent carrier concentration in PbSeâ€“AgSbSe₂ alloys. Journal of Materials Chemistry C, 2021, 9, 17365-17370.	2.7	5
49	Enhanced Thermoelectric Properties of Cu_xSe (1.75â‰ x â‰2.10) during Phase Transitions. Chinese Physics Letters, 2021, 38, 117201.	1.3	7
50	Decoupling Thermoelectric Performance and Stability in Liquidâ€Like Thermoelectric Materials. Advanced Science, 2020, 7, 1901598.	5.6	36
51	Recent Advances in Liquidâ€Like Thermoelectric Materials. Advanced Functional Materials, 2020, 30, 1903867.	7.8	148
52	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. Energy and Environmental Science, 2020, 13, 1240-1249.	15.6	165
53	Conformal organicâ€“inorganic semiconductor composites for flexible thermoelectrics. Energy and Environmental Science, 2020, 13, 511-518.	15.6	67
54	Enhanced thermoelectric properties of copper phthalocyanine/single-walled carbon nanotubes hybrids. Carbon, 2020, 159, 471-477.	5.4	51

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55	Crystal Structure and Thermoelectric Properties of Cu₂Fe_{1â€“x}Mn_xSnSe₄ Diamond-like Chalcogenides. ACS Applied Energy Materials, 2020, 3, 2137-2146.	2.5	15
56	Enhanced Thermoelectric Performance and Service Stability of Cu₂Se Via Tailoring Chemical Compositions at Multiple Atomic Positions. Advanced Functional Materials, 2020, 30, 1908315.	7.8	46
57	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. Nano Energy, 2020, 68, 104347.	8.2	77
58	A Device-to-Material Strategy Guiding the â€œDouble-Highâ€•Thermoelectric Module. Joule, 2020, 4, 2475-2483.	11.7	64
59	Electronic quality factor for thermoelectrics. Science Advances, 2020, 6, .	4.7	88
60	Preparation and Thermoelectric Properties of Semiconducting Single-Walled Carbon Nanotubes/Regioregular Poly(3-dodecylthiophene) Composite Films. Polymers, 2020, 12, 2720.	2.0	3
61	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. Science, 2020, 369, 542-545.	6.0	163
62	Discovery of high-performance thermoelectric copper chalcogenide using modified diffusion-couple high-throughput synthesis and automated histogram analysis technique. Energy and Environmental Science, 2020, 13, 3041-3053.	15.6	43
63	Ternary Compounds Cu₃RTe₃ (R = Y, Sm, and Dy): A Family of New Thermoelectric Materials with Trigonal Structures. ACS Applied Materials & Interfaces, 2020, 12, 40486-40494.	4.0	3
64	Cu₂Se-Based liquid-like thermoelectric materials: looking back and stepping forward. Energy and Environmental Science, 2020, 13, 3307-3329.	15.6	106
65	Synergistically Improved Molecular Doping and Carrier Mobility by Copolymerization of Donorâ€“Acceptor and Donorâ€“Donor Building Blocks for Thermoelectric Application. Advanced Functional Materials, 2020, 30, 2004378.	7.8	51
66	Halfâ€•Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. Advanced Energy Materials, 2020, 10, 2000888.	10.2	85
67	Electrode interface optimization advances conversion efficiency and stability of thermoelectric devices. Nature Communications, 2020, 11, 2723.	5.8	101
68	Good stability and high thermoelectric performance of Fe doped Cu_{1.80}S. Physical Chemistry Chemical Physics, 2020, 22, 7374-7380.	1.3	22
69	The orderâ€“disorder transition in Cu₂Se and medium-range ordering in the high-temperature phase. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 201-207.	0.5	11
70	Interfacial behaviors of p-type CeyFexCo4â€“xSb12/Nb thermoelectric joints. Functional Materials Letters, 2020, 13, 2051020.	0.7	2
71	Electronic origin of the enhanced thermoelectric efficiency of Cu2Se. Science Bulletin, 2020, 65, 1888-1893.	4.3	11
72	Number mismatch between cations and anions as an indicator for low lattice thermal conductivity in chalcogenides. Npj Computational Materials, 2020, 6, .	3.5	13

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73	Doubled Thermoelectric Figure of Merit in p-Type Î²-FeSi₂ via Synergistically Optimizing Electrical and Thermal Transports. ACS Applied Materials & Interfaces, 2020, 12, 12901-12909.	4.0	21
74	Semiconducting polymer contributes favorably to the Seebeck coefficient in multi-component, high-performance n-type thermoelectric nanocomposites. Journal of Materials Chemistry A, 2020, 8, 9797-9805.	5.2	20
75	Thermoelectric Properties of Nanoâ€grained Mooihoekite Cu₉Fe₉S₁₆. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1116-1121.	0.6	11
76	Crystalline Structure-Dependent Mechanical and Thermoelectric Performance in Ag2Se1â€xSx System. Research, 2020, 2020, 6591981.	2.8	55
77	Thermal Conductivity during Phase Transitions. Advanced Materials, 2019, 31, e1806518.	11.1	80
78	Copper chalcogenide thermoelectric materials. Science China Materials, 2019, 62, 8-24.	3.5	111
79	High Performance and Flexible Polyvinylpyrrolidone/Ag/Ag₂Te Ternary Composite Film for Thermoelectric Power Generator. ACS Applied Materials & Interfaces, 2019, 11, 33254-33262.	4.0	47
80	Integrating large-area perovskite solar module with thermoelectric generator for enhanced and stable power output. Nano Energy, 2019, 65, 104009.	8.2	30
81	Ru Alloying Induced Enhanced Thermoelectric Performance in FeSi2-Based Compounds. ACS Applied Materials & Interfaces, 2019, 11, 32151-32158.	4.0	17
82	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. Joule, 2019, 3, 1538-1548.	11.7	126
83	Fabrication and Thermoelectric Properties of PEDOT Films and Their Composites. , 2019, , 69-96.		1
84	Are Cu₂Teâ€Based Compounds Excellent Thermoelectric Materials?. Advanced Materials, 2019, 31, e1903480.	11.1	72
85	Largely Enhanced Seebeck Coefficient and Thermoelectric Performance by the Distortion of Electronic Density of States in Ge₂Sb₂Te₅. ACS Applied Materials & Interfaces, 2019, 11, 34046-34052.	4.0	38
86	Flexible thermoelectrics: from silver chalcogenides to full-inorganic devices. Energy and Environmental Science, 2019, 12, 2983-2990.	15.6	188
87	Thermoelectric properties of non-stoichiometric Cu2+xSn1â^'xS3 compounds. Journal of Applied Physics, 2019, 126, .	1.1	35
88	Protective Properties of Electrochemically Deposited Al-Based Coatings on Yb0.3Co4Sb12 Skutterudite. Journal of Electronic Materials, 2019, 48, 5523-5531.	1.0	4
89	Lattice dynamics of thermoelectric palladium sulfide. Journal of Alloys and Compounds, 2019, 798, 484-492.	2.8	11
90	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. Advanced Materials, 2019, 31, e1807916.	11.1	419

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91	Ultrahigh figureâ€ofâ€merit of Cu₂Se incorporated with carbon coated boron nanoparticles. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 108-115.	8.5	47
92	Thermodynamics, kinetics and electronic properties of point defects in Î²-FeSi₂. Physical Chemistry Chemical Physics, 2019, 21, 10497-10504.	1.3	15
93	Step distribution of Yb filling fraction during microstructural evolution in skutterudites. Journal of Advanced Ceramics, 2019, 8, 62-71.	8.9	6
94	Enhanced Thermoelectric Performance of Quaternary Cu_{2â€“2x}Ag_{2x}Se_{1â€“x}S_x Liquid-like Chalcogenides. ACS Applied Materials & Interfaces, 2019, 11, 13433-13440.	4.0	38
95	Good Performance and Flexible PEDOT:PSS/Cu₂Se Nanowire Thermoelectric Composite Films. ACS Applied Materials & Interfaces, 2019, 11, 12819-12829.	4.0	153
96	Thermoelectric properties of n-type Cu₄Sn₇S₁₆-based compounds. RSC Advances, 2019, 9, 7826-7832.	1.7	26
97	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe1-xSex with refined band structures. Nano Energy, 2019, 60, 1-7.	8.2	86
98	Aguilarite Ag₄SSe Thermoelectric Material: Natural Mineral with Low Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 12632-12638.	4.0	30
99	Lattice Strain Advances Thermoelectrics. Joule, 2019, 3, 1276-1288.	11.7	333
100	Superior performance and high service stability for GeTe-based thermoelectric compounds. National Science Review, 2019, 6, 944-954.	4.6	96
101	Low Contact Resistivity and Interfacial Behavior of p-Type NbFeSb/Mo Thermoelectric Junction. ACS Applied Materials & Interfaces, 2019, 11, 14182-14190.	4.0	37
102	Dopantâ€Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. Advanced Electronic Materials, 2019, 5, 1800618.	2.6	34
103	Recent Advances in nâ€Type Thermoelectric Nanocomposites. Advanced Electronic Materials, 2019, 5, 1800943.	2.6	46
104	A high-throughput strategy to screen interfacial diffusion barrier materials for thermoelectric modules. Journal of Materials Research, 2019, 34, 1179-1187.	1.2	15
105	High performance n-type Ag2Se film on nylon membrane for flexible thermoelectric power generator. Nature Communications, 2019, 10, 841.	5.8	291
106	Quasi-two-dimensional GeSbTe compounds as promising thermoelectric materials with anisotropic transport properties. Applied Physics Letters, 2019, 114, .	1.5	23
107	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. Energy and Environmental Science, 2019, 12, 3390-3399.	15.6	135
108	Enhanced Molecular Doping for High Conductivity in Polymers with Volume Freed for Dopants. Macromolecules, 2019, 52, 9804-9812.	2.2	37

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109	Preparation and thermoelectric properties of SWCNT/PEDOT:PSS coated tellurium nanorod composite films. Journal of Alloys and Compounds, 2019, 778, 163-169.	2.8	80
110	Nanoscale Behavior and Manipulation of the Phase Transition in Singleâ€Crystal Cu₂Se. Advanced Materials, 2019, 31, e1804919.	11.1	31
111	Preparation and thermoelectric properties of PEDOT:PSS coated Te nanorod/PEDOT:PSS composite films. Organic Electronics, 2019, 64, 79-85.	1.4	80
112	Thermal transport in thermoelectric materials with chemical bond hierarchy. Journal of Physics Condensed Matter, 2019, 31, 183002.	0.7	19
113	High thermoelectric performance in flexible Bi₂Te₃/CNT thin films. Chinese Science Bulletin, 2019, 64, 2-3.	0.4	0
114	Improved electrical transport properties and optimized thermoelectric figure of merit in lithium-doped copper sulfides. Rare Metals, 2018, 37, 282-289.	3.6	27
115	Significantly optimized thermoelectric properties in high-symmetry cubic Cu₇PSe₆compoundsviaentropy engineering. Journal of Materials Chemistry A, 2018, 6, 6493-6502.	5.2	55
116	Improved Thermoelectric Performance in Nonstoichiometric Cu_{2+Î´}Mn_{1â^'Î´}SnSe₄ Quaternary Diamondlike Compounds. ACS Applied Materials & Interfaces, 2018, 10, 10123-10131.	4.0	24
117	Thermoelectric properties of polycrystalline palladium sulfide. RSC Advances, 2018, 8, 13154-13158.	1.7	14
118	Multiple phase transitions and structural oscillations in thermoelectric Cu2S at elevating temperatures. Ceramics International, 2018, 44, 13076-13081.	2.3	10
119	Room-temperature ductile inorganic semiconductor. Nature Materials, 2018, 17, 421-426.	13.3	262
120	A novel hydrophilic pyridinium salt polymer/SWCNTs composite film for high thermoelectric performance. Polymer, 2018, 136, 149-156.	1.8	14
121	Intrinsically High Thermoelectric Performance in AgInSe₂ nâ€Type Diamondâ€Like Compounds. Advanced Science, 2018, 5, 1700727.	5.6	66
122	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
123	Scanning laser melting for rapid and massive fabrication of filled skutterudites with high thermoelectric performance. Journal of Materials Chemistry A, 2018, 6, 6772-6779.	5.2	16
124	Thermoelectric properties of Cu₂Se_{1â^'x}Te_x solid solutions. Journal of Materials Chemistry A, 2018, 6, 6977-6986.	5.2	70
125	Pressure-induced superconductivity in palladium sulfide. Journal of Physics Condensed Matter, 2018, 30, 155703.	0.7	8
126	Synthesis and Thermoelectric Properties of Charge-Compensated S_yPd_xCo_{4â€“x}Sb₁₂ Skutterudites. ACS Applied Materials & Interfaces, 2018, 10, 625-634.	4.0	28

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127	Enhanced thermoelectric performance of CNT/P3HT composites with low CNT content. RSC Advances, 2018, 8, 33855-33863.	1.7	22
128	How to Measure Thermoelectric Properties Reliably. Joule, 2018, 2, 2183-2188.	11.7	65
129	Rationalizing phonon dispersion for lattice thermal conductivity of solids. National Science Review, 2018, 5, 888-894.	4.6	129
130	Cotton-based wearable poly(3-hexylthiophene) electronic device for thermoelectric application with cross-plane temperature gradient. Thin Solid Films, 2018, 667, 59-63.	0.8	33
131	Self-propagation high-temperature synthesis of half-Heusler thermoelectric materials: reaction mechanism and applicability. Journal of Materials Chemistry A, 2018, 6, 19470-19478.	5.2	32
132	Oneâ€step Synthesis and Enhanced Thermoelectric Properties of Polymerâ€“Quantum Dot Composite Films. Angewandte Chemie, 2018, 130, 8169-8174.	1.6	10
133	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. Nature Communications, 2018, 9, 2910.	5.8	148
134	Oneâ€step Synthesis and Enhanced Thermoelectric Properties of Polymerâ€“Quantum Dot Composite Films. Angewandte Chemie - International Edition, 2018, 57, 8037-8042.	7.2	38
135	Giant enhancement of the figure-of-merit over a broad temperature range in nano-boron incorporated Cu₂Se. Journal of Materials Chemistry A, 2018, 6, 18409-18416.	5.2	49
136	Optimizing the Thermoelectric Performance of Poly(3â€hexylthiophene) through Molecularâ€Weight Engineering. Chemistry - an Asian Journal, 2018, 13, 3246-3253.	1.7	18
137	Understanding the Intrinsic Carrier Transport in Highly Oriented Poly(3-hexylthiophene): Effect of Side Chain Regioregularity. Polymers, 2018, 10, 815.	2.0	17
138	Enhanced Thermoelectric Performance in n-Type Bi₂Te₃-Based Alloys via Suppressing Intrinsic Excitation. ACS Applied Materials & Interfaces, 2018, 10, 21372-21380.	4.0	76
139	Resonant level-induced high thermoelectric response in indium-doped GeTe. NPG Asia Materials, 2017, 9, e343-e343.	3.8	170
140	The â€œelectron crystalâ€•behavior in copper chalcogenides Cu₂X (X = Se, S). Journal of Materials Chemistry A, 2017, 5, 5098-5105.	5.2	81
141	Quantitative description on structureâ€“property relationships of Li-ion battery materials for high-throughput computations. Science and Technology of Advanced Materials, 2017, 18, 134-146.	2.8	21
142	Constructing nanoporous carbon nanotubes/Bi2Te3 composite for synchronous regulation of the electrical and thermal performances. Journal of Applied Physics, 2017, 121, .	1.1	14
143	Research progress on conducting polymer based supercapacitor electrode materials. Nano Energy, 2017, 36, 268-285.	8.2	1,035
144	Strong anisotropy in thermoelectric properties of CNT/PANI composites. Carbon, 2017, 114, 1-7.	5.4	69

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145	Compound Defects and Thermoelectric Properties of Self-Charge Compensated Skutterudites Se_yCo₄Sb_{12â€“x}Se_x. ACS Applied Materials & Interfaces, 2017, 9, 22713-22724.	4.0	27
146	Thermoelectric properties of copper-deficient Cu2-Se (0.05 â‰¤ x â‰¤ 0.25) binary compounds. Ceramics International, 2017, 43, 11142-11148.	2.3	67
147	Crystal structure across the Î² to Î± phase transition in thermoelectric Cu_{2â^’x}Se. IUCrJ, 2017, 4, 476-485.	1.0	65
148	Ultrahigh Thermoelectric Performance in SrNb_{0.2}Ti_{0.8}O₃ Oxide Films at a Submicrometer-Scale Thickness. ACS Energy Letters, 2017, 2, 915-921.	8.8	21
149	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.	15.6	274
150	Multiple nanostructures in high performance Cu2S0.5Te0.5 thermoelectric materials. Ceramics International, 2017, 43, 7866-7869.	2.3	20
151	Engineering carrier scattering at the interfaces in polyaniline based nanocomposites for high thermoelectric performances. Materials Chemistry Frontiers, 2017, 1, 741-748.	3.2	107
152	Cu₈GeSe₆-based thermoelectric materials with an argyrodite structure. Journal of Materials Chemistry C, 2017, 5, 943-952.	2.7	93
153	An argyrodite-type Ag₉GaSe₆ liquid-like material with ultralow thermal conductivity and high thermoelectric performance. Chemical Communications, 2017, 53, 11658-11661.	2.2	84
154	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. Nano Energy, 2017, 41, 501-510.	8.2	130
155	Solidâ€State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. Advanced Materials, 2017, 29, 1701148.	11.1	110
156	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.	8.2	73
157	Significant enhancement of figure-of-merit in carbon-reinforced Cu2Se nanocrystalline solids. Nano Energy, 2017, 41, 164-171.	8.2	103
158	Micron-thick highly conductive PEDOT films synthesized via self-inhibited polymerization: roles of anions. NPG Asia Materials, 2017, 9, e405-e405.	3.8	52
159	Ultrahigh thermoelectric performance in Cu 2â^’y Se 0.5 S 0.5 liquid-like materials. Materials Today Physics, 2017, 1, 14-23.	2.9	130
160	Enhanced Thermoelectric Performance through Tuning Bonding Energy in Cu₂Se_{1â€“x}S_x Liquid-like Materials. Chemistry of Materials, 2017, 29, 6367-6377.	3.2	179
161	Enhanced stability and thermoelectric figure-of-merit in copper selenide by lithium doping. Materials Today Physics, 2017, 1, 7-13.	2.9	93
162	Ultrahigh thermoelectric performance in Cu₂Se-based hybrid materials with highly dispersed molecular CNTs. Energy and Environmental Science, 2017, 10, 1928-1935.	15.6	298

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163	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.	5.2	86
164	Entropy as a Geneâ€Like Performance Indicator Promoting Thermoelectric Materials. Advanced Materials, 2017, 29, 1702712.	11.1	218
165	Suppressed intrinsic excitation and enhanced thermoelectric performance in Ag_xBi_{0.5}Sb_{1.5â^'x}Te₃. Journal of Materials Chemistry C, 2017, 5, 12619-12628.	2.7	49
166	Three-dimensional tubular graphene/polyaniline composites as high-performance elastic thermoelectrics. Composites Science and Technology, 2017, 150, 135-140.	3.8	27
167	Skutterudite with graphene-modified grain-boundary complexion enhances zT enabling high-efficiency thermoelectric device. Energy and Environmental Science, 2017, 10, 183-191.	15.6	252
168	Enhanced thermoelectric properties in pâ€type Bi_{0.4}Sb_{1.6}Te₃ alloy by combining incorporation and doping using multiâ€scale CuAlO₂ particles. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600451.	0.8	7
169	Study on the High Temperature Interfacial Stability of Ti/Mo/Yb0.3Co4Sb12 Thermoelectric Joints. Applied Sciences (Switzerland), 2017, 7, 952.	1.3	14
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