

Yubo Luo

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131
papers

4,105
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56
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138
ext. papers

5,157
ext. citations

10.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
131	Fe-Doped Ni C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12566-12570	16.4	240
130	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , 2017 , 11, 11031-11040	16.7	239
129	Coaxial heterogeneous structure of TiO ₂ nanotube arrays with CdS as a superthin coating synthesized via modified electrochemical atomic layer deposition. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12619-26	16.4	152
128	Self-Assemble and In Situ Formation of Ni _{1-x} Fe _x PS ₃ Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1801127	21.8	131
127	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019 , 13, 7975-7984	16.7	104
126	Progressive Regulation of Electrical and Thermal Transport Properties to High-Performance CuInTe ₂ Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2016 , 6, 1600007	21.8	96
125	Multiple effects of Bi doping in enhancing the thermoelectric properties of SnTe. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13171-13175	13	91
124	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018 , 47, 257-265	17.1	88
123	All-Inorganic CsPbBr Perovskite Solar Cells with 10.45% Efficiency by Evaporation-Assisted Deposition and Setting Intermediate Energy Levels. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29746-29752	9.5	79
122	n-Type SnSe ₂ Oriented-Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1702167	21.8	76
121	Low-Temperature Solution-Processed ZnSe Electron Transport Layer for Efficient Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Photostability. <i>ACS Nano</i> , 2018 , 12, 5605-5614	16.7	66
120	Enhancement of the Thermoelectric Performance of Polycrystalline In ₄ Se _{2.5} by Copper Intercalation and Bromine Substitution. <i>Advanced Energy Materials</i> , 2014 , 4, 1300599	21.8	64
119	Synergistic Effect to High-Performance Perovskite Solar Cells with Reduced Hysteresis and Improved Stability by the Introduction of Na-Treated TiO and Spraying-Deposited CuI as Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41354-41362	9.5	64
118	High Thermoelectric Performance in Polycrystalline SnSe Via Dual-Doping with Ag/Na and Nanostructuring With Ag ₈ SnSe ₆ . <i>Advanced Energy Materials</i> , 2019 , 9, 1803072	21.8	64
117	Synthesis of CoSb ₃ skutterudite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2004 , 375, 229-232	5.7	62
116	Large enhancement of thermoelectric performance of CuInTe ₂ via a synergistic strategy of point defects and microstructure engineering. <i>Nano Energy</i> , 2015 , 18, 37-46	17.1	59
115	Thermoelectric properties of silver-doped n-type Bi ₂ Te ₃ -based material prepared by mechanical alloying and subsequent hot pressing. <i>Journal of Alloys and Compounds</i> , 2006 , 407, 330-333	5.7	58

114	General and Scalable Solid-State Synthesis of 2D MPS ₃ (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , 2017 , 1, 1700304	12.8	57
113	High-Performance Thermoelectrics from Cellular Nanostructured Sb ₂ Si ₂ Te ₆ . <i>Joule</i> , 2020 , 4, 159-175	27.8	55
112	Ternary CuSbSe ₂ chalcostibite: facile synthesis, electronic-structure and thermoelectric performance enhancement. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4188-4193	13	53
111	Enhancement of thermoelectric properties of Yb-filled skutterudites by an Ni-Induced Core-Shell structure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1010-1016	13	50
110	New insight into InSb-based thermoelectric materials: from a divorced eutectic design to a remarkably high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5163-5170	13	48
109	Enhancement of Thermoelectric Performance for n-Type PbS through Synergy of Gap State and Fermi Level Pinning. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6403-6412	16.4	48
108	Enhanced thermoelectric performance of SnTe: High efficient cation - anion Co-doping, hierarchical microstructure and electro-acoustic decoupling. <i>Nano Energy</i> , 2018 , 47, 81-88	17.1	48
107	Improvement of thermoelectric properties of Cu ₃ SbSe ₄ compound by In doping. <i>Materials and Design</i> , 2016 , 98, 150-154	8.1	46
106	Enhancement of photovoltaic performance of perovskite solar cells by modification of the interface between the perovskite and mesoporous TiO ₂ film. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 101-107	6.4	46
105	Defect engineering in thermoelectric materials: what have we learned?. <i>Chemical Society Reviews</i> , 2021 , 50, 9022-9054	58.5	45
104	High Figure of Merit in Gallium-Doped Nanostructured n-Type PbTe-GeTe with Midgap States. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16169-16177	16.4	44
103	Synergy of Nb Doping and Surface Alloy Enhanced on Water-Alkali Electrocatalytic Hydrogen Generation Performance in Ti-Based MXene. <i>Advanced Science</i> , 2019 , 6, 1900116	13.6	43
102	Fe-Doped Ni ₃ C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2017 , 129, 12740-12744	3.6	43
101	Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33779-33784	9.5	42
100	Recent advances in printable secondary batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22442-22458	3	40
99	Electrochemical atomic layer deposition of Bi ₂ S ₃ /Sb ₂ S ₃ quantum dots co-sensitized TiO ₂ nanorods solar cells. <i>Journal of Power Sources</i> , 2016 , 307, 690-696	8.9	40
98	A study of Yb _{0.2} Co ₄ Sb ₁₂ AgSbTe ₂ nanocomposites: simultaneous enhancement of all three thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 73-79	13	40
97	Study on mechanical alloying and subsequent heat treatment of the Ti ₃ Si system. <i>Physica B: Condensed Matter</i> , 2000 , 279, 241-245	2.8	40

96	High Thermoelectric Performance in the New Cubic Semiconductor AgSnSbSe by High-Entropy Engineering. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15187-15198	16.4	40
95	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1805075	15.6	38
94	Multiple heteroatom induced carrier engineering and hierarchical nanostructures for high thermoelectric performance of polycrystalline In ₄ Se _{2.5} . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1251-1257	13	37
93	Preparation and characterization of Fe substituted CoSb ₃ skutterudite by mechanical alloying and annealing. <i>Journal of Alloys and Compounds</i> , 2004 , 381, 313-316	5.7	37
92	Composite photoanodes of Zn ₂ SnO ₄ nanoparticles modified SnO ₂ hierarchical microspheres for dye-sensitized solar cells. <i>Materials Letters</i> , 2012 , 76, 215-218	3.3	33
91	Multi-cations compound Cu ₂ CoSnS ₄ : DFT calculating, band engineering and thermoelectric performance regulation. <i>Nano Energy</i> , 2017 , 36, 156-165	17.1	32
90	Simultaneous regulation of electrical and thermal transport properties in CuInTe ₂ by directly incorporating excess ZnX (X=S, Se). <i>Nano Energy</i> , 2017 , 32, 80-87	17.1	32
89	Enhanced photovoltaic performance and stability in mixed-cation perovskite solar cells via compositional modulation. <i>Electrochimica Acta</i> , 2017 , 247, 460-467	6.7	32
88	A simultaneous increase in the ZT and the corresponding critical temperature of p-type Bi _{0.4} Sb _{1.6} Te ₃ by a combined strategy of dual nano-inclusions and carrier engineering. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20288-20294	13	32
87	Electrodeposition and characterization of Bi ₂ Se ₃ thin films by electrochemical atomic layer epitaxy (ECALE). <i>Electrochimica Acta</i> , 2009 , 54, 6821-6826	6.7	32
86	CdS quantum dots sensitized TiO ₂ nanorod-array-film photoelectrode on FTO substrate by electrochemical atomic layer epitaxy method. <i>Electrochimica Acta</i> , 2012 , 83, 321-326	6.7	31
85	Thermoelectric performance of SnTe with ZnO carrier compensation, energy filtering, and multiscale phonon scattering. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5723-5730	3.8	30
84	Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2457-2473	7.8	30
83	Melting and solidification of bismuth antimony telluride under a high magnetic field: A new route to high thermoelectric performance. <i>Nano Energy</i> , 2015 , 15, 709-718	17.1	29
82	Synergistic effect by Na doping and S substitution for high thermoelectric performance of p-type MnTe. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5076-5082	7.1	27
81	Improvement of photovoltaic performance of perovskite solar cells with a ZnO/Zn ₂ SnO ₄ composite compact layer. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 143-150	6.4	27
80	High Thermoelectric Performance in SnTe Nanocomposites with All-Scale Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23102-23109	9.5	26
79	Improve photovoltaic performance of titanium dioxide nanorods based dye-sensitized solar cells by Ca-doping. <i>Materials Research Bulletin</i> , 2014 , 57, 177-183	5.1	26

78	Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , 2018 , 12, 12902-12911	16.7	26
77	Fabrication of CdTe Quantum Dots Sensitized TiO ₂ Nanorod-Array-Film Photoanodes via the Route of Electrochemical Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2014 , 161, D55-D58	3.9	25
76	Large improvement of device performance by a synergistic effect of photovoltaics and thermoelectrics. <i>Nano Energy</i> , 2016 , 22, 120-128	17.1	24
75	High-Performance Flexible Perovskite Solar Cells with a Metal Sulfide Electron Transport Layer of SnS ₂ by Room-Temperature Vacuum Deposition. <i>ACS Applied Energy Materials</i> , 2019 , 2, 382-388	6.1	24
74	Tactfully decoupling interdependent electrical parameters via interstitial defects for SnTe thermoelectrics. <i>Nano Energy</i> , 2020 , 67, 104292	17.1	23
73	Facile Route to High-Performance SnTe-Based Thermoelectric Materials: Synergistic Regulation of Electrical and Thermal Transport by In Situ Chemical Reactions. <i>Chemistry of Materials</i> , 2019 , 31, 3491-3497	8.6	22
72	Enhanced thermoelectric and mechanical performance of polycrystalline p-type Bi _{0.5} Sb _{1.5} Te ₃ by a traditional physical metallurgical strategy. <i>Intermetallics</i> , 2014 , 50, 20-27	3.5	22
71	Combination of Carrier Concentration Regulation and High Band Degeneracy for Enhanced Thermoelectric Performance of CuSbSe. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28558-28565	9.5	21
70	Improvement of Thermoelectric Properties of In ₄ Se ₃ Bulk Materials with Cu Nanoinclusions. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2703-2705	3.8	21
69	Microstructure tailoring in nanostructured thermoelectric materials. <i>Journal of Advanced Dielectrics</i> , 2016 , 06, 1630002	1.3	21
68	Bi-layer of nanorods and three-dimensional hierarchical structure of TiO ₂ for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 284, 428-434	8.9	20
67	Enhancement of photovoltaic performance of flexible perovskite solar cells by means of ionic liquid interface modification in a low temperature all solution process. <i>Applied Surface Science</i> , 2018 , 440, 1116-1122	6.7	20
66	Carriers concentration tailoring and phonon scattering from n-type zinc oxide (ZnO) nanoinclusion in p- and n-type bismuth telluride (Bi ₂ Te ₃): Leading to ultra low thermal conductivity and excellent thermoelectric properties. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 864-868	5.7	20
65	Tailoring the Carrier and Phonon Scattering to Enhanced Thermoelectric Performance of SnTe by Cation/Anion Codoping with Eco-Benign CaI ₂ . <i>ACS Applied Energy Materials</i> , 2019 , 2, 1997-2003	6.1	19
64	Multi-role of Sodium Doping in BiCuSeO on High Thermoelectric Performance. <i>Journal of Electronic Materials</i> , 2015 , 44, 2849-2855	1.9	19
63	Synergistic tuning of carrier and phonon scattering for high performance of n-type Bi ₂ Te _{2.5} Se _{0.5} thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22332-22338	13	19
62	In Situ Reaction Induced Core-Shell Structure to Ultralow Band High Thermoelectric Performance of SnTe. <i>Advanced Science</i> , 2020 , 7, 1903493	13.6	19
61	Preparation and Photovoltaic Properties of Ternary AgBiS ₂ Quantum Dots Sensitized TiO ₂ Nanorods Photoanodes by Electrochemical Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D63-D67	3.9	19

60	Thermal Stability of P-Type BiSbTe Alloys Prepared by Melt Spinning and Rapid Sintering. <i>Materials</i> , 2017 , 10,	3.5	18
59	Enhanced thermoelectric performance of MnTe via Cu doping with optimized carrier concentration. <i>Journal of Materiomics</i> , 2016 , 2, 172-178	6.7	18
58	Effect of La filling on thermoelectric properties of $\text{La}_x\text{Co}_{3.6}\text{Ni}_{0.4}\text{Sb}_{12}$ -filled skutterudite prepared by MAEP method. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 212-216	3.3	17
57	Reinforced bond covalency and multiscale hierarchical architecture to high performance eco-friendly MnTe-based thermoelectric materials. <i>Nano Energy</i> , 2019 , 57, 703-710	17.1	17
56	The improvement of thermoelectric property of bulk ZnO via ZnS addition: Influence of intrinsic defects. <i>Ceramics International</i> , 2018 , 44, 6461-6465	5.1	16
55	Low temperature processed ternary oxide as an electron transport layer for efficient and stable perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 261, 474-481	6.7	16
54	Enhanced photovoltaic performance of CdS quantum dots sensitized highly oriented two-end-opened TiO ₂ nanotubes array membrane. <i>Journal of Power Sources</i> , 2014 , 250, 174-180	8.9	16
53	Preparation and thermoelectric properties of $\text{La}_x\text{FeCo}_3\text{Sb}_{12}$ skutterudites by mechanical alloying and hot pressing. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 105-108	5.7	16
52	High Entropy Semiconductor AgMnGeSbTe_4 with Desirable Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2103197	15.6	16
51	Significant average ZT enhancement in Cu_3SbSe_4 -based thermoelectric material via softening p π hybridization. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17648-17654	13	15
50	An in situ eutectic remelting and oxide replacement reaction for superior thermoelectric performance of InSb. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17049-17056	13	15
49	AgSbTe_2 nanoinclusion in $\text{Yb}_{0.2}\text{Co}_4\text{Sb}_{12}$ for high performance thermoelectrics. <i>Intermetallics</i> , 2013 , 43, 79-84	3.5	15
48	Electrochemical deposition of PbI_2 for perovskite solar cells. <i>Solar Energy</i> , 2018 , 159, 300-305	6.8	15
47	High thermoelectric performance enabled by convergence of nested conduction bands in PbBiSe with low thermal conductivity. <i>Nature Communications</i> , 2021 , 12, 4793	17.4	15
46	Ultralow Thermal Conductivity and Thermoelectric Properties of $\text{Rb}_2\text{Bi}_8\text{Se}_{13}$. <i>Chemistry of Materials</i> , 2020 , 32, 3561-3569	9.6	14
45	Recent advances, design guidelines, and prospects of flexible organic/inorganic thermoelectric composites. <i>Materials Advances</i> , 2020 , 1, 1038-1054	3.3	14
44	Synergistical Tuning Interface Barrier and Phonon Propagation in Au-SbTe Nanoplate for Boosting Thermoelectric Performance. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4903-4909	6.4	14
43	Thermoelectric Performance of Rapidly Microwave-Synthesized MgAgSb with SnTe Nanoinclusions. <i>Chemistry of Materials</i> , 2019 , 31, 2421-2430	9.6	14

42	Cubic AgMnSbTe Semiconductor with a High Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13990-13998	16.4	14
41	Improvement of Thermoelectric Properties of Bi _{0.4} Sb _{1.6} Te ₃ with Addition of Nanoscale Zinc Oxide Particles. <i>Journal of Electronic Materials</i> , 2016 , 45, 1266-1270	1.9	13
40	Investigation on the microstructure and thermoelectric performance of magnetic ions doped Bi _{0.5} Sb _{1.5} Te ₃ solidified under a magnetostatic field. <i>Acta Materialia</i> , 2017 , 127, 185-191	8.4	13
39	CuCrSe ₂ Ternary Chromium Chalcogenide: Facile Fabrication, Doping and Thermoelectric Properties. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3975-3980	3.8	13
38	Effect of processing parameters on formation and thermoelectric properties of La _{0.4} FeCo ₃ Sb ₁₂ skutterudite by MAHP method. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 802-806	5.7	13
37	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. <i>Energy and Environmental Science</i> , 2022 , 15, 368-375	35.4	12
36	Electrochemical Atomic Layer Deposition of Ag ₂ S Quantum Dots Sensitized TiO ₂ Nanorods Array Photoanodes and Cu ₂ S Counter Electrode for Solar Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, D510-D514	3.9	11
35	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu ₂ SnSe ₃ . <i>Advanced Energy Materials</i> , 2021 , 11, 2100661	21.8	11
34	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 268-273	16.4	11
33	Simultaneous optimization of the overall thermoelectric properties of Cu ₃ SbSe ₄ by band engineering and phonon blocking. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 597-602	5.7	10
32	Enhancement of thermoelectric properties of Ce _{0.9} Fe _{3.75} Ni _{0.25} Sb ₁₂ p-type skutterudite by tellurium addition. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16499-16506	13	10
31	Enhancement of photovoltaic performance and moisture stability of perovskite solar cells by modification of tin phthalocyanine (SnPc). <i>Electrochimica Acta</i> , 2019 , 296, 799-805	6.7	10
30	Simultaneous regulation of electrical and thermal transport properties in MnTe chalcogenides via the incorporation of p-type Sb ₂ Te ₃ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23473-23477	13	10
29	Effect of TiC Nano-inclusions on Thermoelectric and Mechanical Performance of Polycrystalline In ₄ Se _{2.65} . <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3813-3817	3.8	9
28	Effect of cooling rate on the thermoelectric and mechanical performance of Bi _{0.5} Sb _{1.5} Te ₃ prepared under a high magnetic field. <i>Intermetallics</i> , 2016 , 72, 62-68	3.5	9
27	Enhancement of Thermoelectric Performance in CuSbSe Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , 2018 , 14, e1803092	11	9
26	Thermoelectric Performance Enhancement of CeFe ₄ Sb ₁₂ p-Type Skutterudite by Disorder on the Sb ₄ Rings Induced by Te Doping and Nanopores. <i>Journal of Electronic Materials</i> , 2016 , 45, 1240-1244	1.9	8
25	Hierarchical double-layered SnO ₂ film as a photoanode for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2013 , 37, 1002	3.6	8

24	High Power Factor and Thermoelectric Figure of Merit in Sb ₂ Si ₂ Te ₆ through Synergetic Effect of Ca Doping. <i>Chemistry of Materials</i> , 2021 , 33, 8097-8105	9.6	8
23	Effect of Sn doping on thermoelectric properties of p-type manganese telluride. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 968-973	5.7	8
22	Thermoelectric Performance of the 2D BiSiTe Semiconductor.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	7
21	Ecofriendly Highly Robust AgSiSe-Based Thermoelectric Composites with Excellent Performance Near Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54653-54661	9.5	7
20	Accelerated discovery of a large family of quaternary chalcogenides with very low lattice thermal conductivity. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	7
19	A new method for simultaneous measurement of Seebeck coefficient and resistivity. <i>Review of Scientific Instruments</i> , 2016 , 87, 124901	1.7	7
18	Band Matching Strategy for All-Inorganic CsAgBiBr Double Perovskite Solar Cells with High Photovoltage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37027-37034	9.5	7
17	Tuning the Thermoelectric Performance of SnTe via Dual-Site Electronic Donation and Super-Saturation Solution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7490-7496	6.1	6
16	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie</i> , 2021 , 133, 272-277	3.6	6
15	Improvement of photovoltaic performance of perovskite solar cells by interface modification with CaTiO ₃ . <i>Journal of Power Sources</i> , 2020 , 449, 227504	8.9	5
14	Enhancement of the thermoelectric performance of CuInTe ₂ via SnO ₂ in situ replacement. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4732-4737	2.1	4
13	High-Efficiency and Durable Inverted Perovskite Solar Cells with Thermally-Induced Phase-Change Electron Extraction Layer. <i>Advanced Energy Materials</i> , 2021 , 11, 2102844	21.8	4
12	Improving the Photovoltaic Performance of Flexible Solar Cells with Semitransparent Inorganic Perovskite Active Layers by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20034-20042	9.5	4
11	Fabrication of CdSe/CdTe Quantum Dots Co-Sensitized TiO ₂ Nanorods by Electrochemical Atomic Layer Deposition Method. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D137-D141	3.9	3
10	Effects of La doping induced carrier concentration regulation and band structure modification on thermoelectric properties of PbSe. <i>Scripta Materialia</i> , 2022 , 208, 114360	5.6	3
9	Enhanced thermoelectric performance of orientated and defected SnTe. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157634	5.7	3
8	Characterization and Thermoelectric Properties of La _{0.4} Ni _{0.2} Co _{3.8} Sb ₁₂ Filled Skutterudite Prepared by the MA-HP Method. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 277-280	3.8	2
7	Cold-Sintered Bi ₂ Te ₃ -Based Materials for Engineering Nanograined Thermoelectrics. <i>ACS Applied Energy Materials</i> ,	6.1	2

6	Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe ₂ Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small 50/2018). <i>Small</i> , 2018 , 14, 1870241	11	2
5	All-scale Architecturing of Microstructure in Chalcogenide Thermoelectric Materials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2236-2237	0.5	1
4	High-performance and long-term thermal management material of MIL-101Cr@GO. <i>Materials Today Physics</i> , 2022 , 22, 100572	8	1
3	Local Distortions and Metal-Semiconductor-Metal Transition in Quasi-One-Dimensional Nanowire Compounds AV ₃ Q ₃ O ₄ (A = K, Rb, Cs and Q = Se, Te). <i>Chemistry of Materials</i> , 2021 , 33, 2611-2623	9.6	1
2	Improved densification and thermoelectric performance of In ₅ SnSbO ₁₂ via Ga doping. <i>Journal of Materials Science</i> , 2018 , 53, 6741-6751	4.3	0
1	Two-dimensional layered architecture constructing energy and phonon blocks for enhancing thermoelectric performance of InSb. <i>Science China Materials</i> , 2022 , 65, 1353	7.1	0