

Yubo Luo

List of Publications by Year in descending order

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136
papers

6,267
citations

61984

43
h-index

85541

71
g-index

138
all docs

138
docs citations

138
times ranked

6535
citing authors

#	ARTICLE	IF	CITATIONS
1	Fe-Doped Ni ₃ 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.	13.8	324
2	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , 2017, 11, 11031-11040.	14.6	297
3	Self-Assemble and In Situ Formation of Ni ²⁺ /Ni ₃ PS ₃ Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1801127.	19.5	204
4	Defect engineering in thermoelectric materials: what have we learned?. <i>Chemical Society Reviews</i> , 2021, 50, 9022-9054.	38.1	201
5	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019, 13, 7975-7984.	14.6	171
6	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, 12619-12626.	13.7	159
7	Multiple effects of Bi doping in enhancing the thermoelectric properties of SnTe. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13171-13175.	10.3	128
8	All-Inorganic CsPbBr ₃ 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.	8.0	126
9	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018, 47, 257-265.	16.0	122
10	Progressive Regulation of Electrical and Thermal Transport Properties to High-Performance CuInTe ₂ Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2016, 6, 1600007.	19.5	118
11	High Thermoelectric Performance in the New Cubic Semiconductor AgSnSbSe ₃ by High-Entropy Engineering. <i>Journal of the American Chemical Society</i> , 2020, 142, 15187-15198.	13.7	108
12	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. <i>Energy and Environmental Science</i> , 2022, 15, 368-375.	30.8	107
13	n-Type SnSe ₂ Oriented Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1702167.	19.5	103
14	High-Performance Thermoelectrics from Cellular Nanostructured Sb ₂ Si ₂ Te ₆ . <i>Joule</i> , 2020, 4, 159-175.	24.0	103
15	Synergistic Effect to High-Performance Perovskite Solar Cells with Reduced Hysteresis and Improved Stability by the Introduction of Na-Treated TiO ₂ and Spraying-Deposited CuI as Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41354-41362.	8.0	102
16	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.	19.5	98
17	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.	11.2	97
18	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.	8.6	90

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19	Low-Temperature Solution-Processed ZnSe Electron Transport Layer for Efficient Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Photostability. ACS Nano, 2018, 12, 5605-5614.	14.6	89
20	Large enhancement of thermoelectric performance of CuInTe ₂ via a synergistic strategy of point defects and microstructure engineering. Nano Energy, 2015, 18, 37-46.	16.0	78
21	High Figure of Merit in Gallium-Doped Nanostructured n-Type PbTe-xGeTe with Midgap States. Journal of the American Chemical Society, 2019, 141, 16169-16177.	13.7	76
22	Enhancement of the Thermoelectric Performance of Polycrystalline In ₄ Se _{2.5} by Copper Intercalation and Bromine Substitution. Advanced Energy Materials, 2014, 4, 1300599.	19.5	71
23	Ternary CuSbSe ₂ chalcostibite: facile synthesis, electronic-structure and thermoelectric performance enhancement. Journal of Materials Chemistry A, 2016, 4, 4188-4193.	10.3	69
24	Synthesis of CoSb ₃ skutterudite by mechanical alloying. Journal of Alloys and Compounds, 2004, 375, 229-232.	5.5	67
25	Enhanced thermoelectric performance of SnTe: High efficient cation - anion Co-doping, hierarchical microstructure and electro-acoustic decoupling. Nano Energy, 2018, 47, 81-88.	16.0	67
26	Enhancement of Thermoelectric Performance for n-Type PbS through Synergy of Gap State and Fermi Level Pinning. Journal of the American Chemical Society, 2019, 141, 6403-6412.	13.7	67
27	Thermoelectric properties of silver-doped n-type Bi ₂ Te ₃ -based material prepared by mechanical alloying and subsequent hot pressing. Journal of Alloys and Compounds, 2006, 407, 330-333.	5.5	64
28	Enhancement of thermoelectric properties of Yb-filled skutterudites by an Ni-Induced "core-shell" structure. Journal of Materials Chemistry A, 2015, 3, 1010-1016.	10.3	63
29	New insight into InSb-based thermoelectric materials: from a divorced eutectic design to a remarkably high thermoelectric performance. Journal of Materials Chemistry A, 2017, 5, 5163-5170.	10.3	63
30	Improvement of thermoelectric properties of Cu ₃ SbSe ₄ compound by In doping. Materials and Design, 2016, 98, 150-154.	7.0	62
31	Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 33779-33784.	8.0	61
32	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. Advanced Functional Materials, 2018, 28, 1805075.	14.9	57
33	Cubic AgMnSbTe ₃ Semiconductor with a High Thermoelectric Performance. Journal of the American Chemical Society, 2021, 143, 13990-13998.	13.7	56
34	High thermoelectric performance enabled by convergence of nested conduction bands in Pb ₇ Bi ₄ Se ₁₃ with low thermal conductivity. Nature Communications, 2021, 12, 4793.	12.8	53
35	Enhancement of photovoltaic performance of perovskite solar cells by modification of the interface between the perovskite and mesoporous TiO ₂ film. Solar Energy Materials and Solar Cells, 2016, 155, 101-107.	6.2	51
36	Recent advances in printable secondary batteries. Journal of Materials Chemistry A, 2017, 5, 22442-22458.	10.3	50

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37	High Entropy Semiconductor AgMnGeSbTe_4 with Desirable Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2021, 31, 2103197.	14.9	50
38	Fe-Doped Ni_3C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen Evolution and Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 12740-12744.	2.0	48
39	Electrochemical atomic layer deposition of $\text{Bi}_2\text{S}_3/\text{Sb}_2\text{S}_3$ quantum dots co-sensitized TiO_2 nanorods solar cells. <i>Journal of Power Sources</i> , 2016, 307, 690-696.	7.8	47
40	Multi-cations compound $\text{Cu}_2\text{CoSnS}_4$: DFT calculating, band engineering and thermoelectric performance regulation. <i>Nano Energy</i> , 2017, 36, 156-165.	16.0	47
41	High Thermoelectric Performance in SnTe Nanocomposites with All-Scale Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23102-23109.	8.0	47
42	A study of $\text{Yb}_{0.2}\text{Co}_4\text{Sb}_{12}$ AgSbTe ₂ nanocomposites: simultaneous enhancement of all three thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 73-79.	10.3	45
43	Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , 2018, 12, 12902-12911.	14.6	45
44	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.	16.0	44
45	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	44
46	Study on mechanical alloying and subsequent heat treatment of the Ti-Si system. <i>Physica B: Condensed Matter</i> , 2000, 279, 241-245.	2.7	42
47	Enhanced photovoltaic performance and stability in mixed-cation perovskite solar cells via compositional modulation. <i>Electrochimica Acta</i> , 2017, 247, 460-467.	5.2	41
48	Significant average ZT enhancement in Cu_3SbSe_4 -based thermoelectric material via softening d hybridization. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17648-17654.	10.3	41
49	Composite photoanodes of Zn_2SnO_4 nanoparticles modified SnO_2 hierarchical microspheres for dye-sensitized solar cells. <i>Materials Letters</i> , 2012, 76, 215-218.	2.6	40
50	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.	5.5	40
51	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.	5.5	39
52	Electrodeposition and characterization of Bi_2Se_3 thin films by electrochemical atomic layer epitaxy (ECALE). <i>Electrochimica Acta</i> , 2009, 54, 6821-6826.	5.2	39
53	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu_2SnSe_3 . <i>Advanced Energy Materials</i> , 2021, 11, 2100661.	19.5	39
54	Multiple heteroatom induced carrier engineering and hierarchical nanostructures for high thermoelectric performance of polycrystalline $\text{In}_4\text{Se}_{2.5}$. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1251-1257.	10.3	38

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55	In Situ Reaction Induced Core-Shell Structure to Ultralow ρ_{lat} and High Thermoelectric Performance of SnTe. <i>Advanced Science</i> , 2020, 7, 1903493.	11.2	38
56	Recent advances, design guidelines, and prospects of flexible organic/inorganic thermoelectric composites. <i>Materials Advances</i> , 2020, 1, 1038-1054.	5.4	37
57	Thermoelectric Performance of the 2D $\text{Bi}_2\text{Si}_2\text{Te}_6$ Semiconductor. <i>Journal of the American Chemical Society</i> , 2022, 144, 1445-1454.	13.7	37
58	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.	6.1	36
59	Band Matching Strategy for All-Inorganic $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite Solar Cells with High Photovoltage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37027-37034.	8.0	36
60	A simultaneous increase in the ZT and the corresponding critical temperature of p-type $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ by a combined strategy of dual nano-inclusions and carrier engineering. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20288-20294.	10.3	35
61	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.	16.0	35
62	High-Efficiency and Durable Inverted Perovskite Solar Cells with Thermally-Induced Phase-Change Electron Extraction Layer. <i>Advanced Energy Materials</i> , 2021, 11, 2102844.	19.5	35
63	Improve photovoltaic performance of titanium dioxide nanorods based dye-sensitized solar cells by Ca-doping. <i>Materials Research Bulletin</i> , 2014, 57, 177-183.	5.2	34
64	Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2457-2473.	5.9	34
65	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.	5.1	33
66	Tactfully decoupling interdependent electrical parameters via interstitial defects for SnTe thermoelectrics. <i>Nano Energy</i> , 2020, 67, 104292.	16.0	33
67	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.	5.2	32
68	Accelerated discovery of a large family of quaternary chalcogenides with very low lattice thermal conductivity. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	32
69	Improvement of photovoltaic performance of perovskite solar cells with a $\text{ZnO}/\text{Zn}_2\text{SnO}_4$ composite compact layer. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 143-150.	6.2	31
70	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.	6.7	31
71	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.	2.9	30
72	Large improvement of device performance by a synergistic effect of photovoltaics and thermoelectrics. <i>Nano Energy</i> , 2016, 22, 120-128.	16.0	30

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73	Combination of Carrier Concentration Regulation and High Band Degeneracy for Enhanced Thermoelectric Performance of Cu ₃ SbSe ₄ . ACS Applied Materials & Interfaces, 2017, 9, 28558-28565.	8.0	30
74	Reinforced bond covalency and multiscale hierarchical architecture to high performance eco-friendly MnTe-based thermoelectric materials. Nano Energy, 2019, 57, 703-710.	16.0	28
75	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. Angewandte Chemie - International Edition, 2021, 60, 268-273.	13.8	28
76	Fabrication of CdTe Quantum Dots Sensitized TiO ₂ Nanorod-Array-Film Photoanodes via the Route of Electrochemical Atomic Layer Deposition. Journal of the Electrochemical Society, 2014, 161, D55-D58.	2.9	27
77	Multi-role of Sodium Doping in BiCuSeO on High Thermoelectric Performance. Journal of Electronic Materials, 2015, 44, 2849-2855.	2.2	26
78	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. Journal of Alloys and Compounds, 2017, 694, 864-868.	5.5	26
79	Synergistical Tuning Interface Barrier and Phonon Propagation in AuSb ₂ Te ₃ Nanoplate for Boosting Thermoelectric Performance. Journal of Physical Chemistry Letters, 2019, 10, 4903-4909.	4.6	26
80	Thermoelectric Performance of Rapidly Microwave-Synthesized δ -MgAgSb with SnTe Nanoinclusions. Chemistry of Materials, 2019, 31, 2421-2430.	6.7	26
81	Enhanced thermoelectric and mechanical performance of polycrystalline p-type Bi _{0.5} Sb _{1.5} Te ₃ by a traditional physical metallurgical strategy. Intermetallics, 2014, 50, 20-27.	3.9	25
82	Synergistic tuning of carrier and phonon scattering for high performance of n-type Bi ₂ Te _{2.5} Se _{0.5} thermoelectric material. Journal of Materials Chemistry A, 2015, 3, 22332-22338.	10.3	25
83	Tailoring the Carrier and Phonon Scattering to Enhanced Thermoelectric Performance of SnTe by Cation/Anion Codoping with Eco-Benign Ca ₂ . ACS Applied Energy Materials, 2019, 2, 1997-2003.	5.1	25
84	Cold-Sintered Bi ₂ Te ₃ -Based Materials for Engineering Nanograined Thermoelectrics. ACS Applied Energy Materials, 2022, 5, 2002-2010.	5.1	25
85	Improvement of Thermoelectric Properties of In ₄ Se ₃ Bulk Materials with Cu Nanoinclusions. Journal of the American Ceramic Society, 2013, 96, 2703-2705.	3.8	24
86	Microstructure tailoring in nanostructured thermoelectric materials. Journal of Advanced Dielectrics, 2016, 06, 1630002.	2.4	24
87	Enhanced thermoelectric performance of MnTe via Cu doping with optimized carrier concentration. Journal of Materiomics, 2016, 2, 172-178.	5.7	24
88	Valence Disproportionation of GeS in the PbS Matrix Forms Pb ₅ Ge ₅ S ₁₂ Inclusions with Conduction Band Alignment Leading to High n-Type Thermoelectric Performance. Journal of the American Chemical Society, 2022, 144, 7402-7413.	13.7	24
89	Low temperature processed ternary oxide as an electron transport layer for efficient and stable perovskite solar cells. Electrochimica Acta, 2018, 261, 474-481.	5.2	23
90	Simultaneous regulation of electrical and thermal transport properties in MnTe chalcogenides via the incorporation of p-type Sb ₂ Te ₃ . Journal of Materials Chemistry A, 2018, 6, 23473-23477.	10.3	23

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91	Ultralow Thermal Conductivity and Thermoelectric Properties of Rb ₂ Bi ₈ Se ₁₃ . Chemistry of Materials, 2020, 32, 3561-3569.	6.7	23
92	Bi-layer of nanorods and three-dimensional hierarchical structure of TiO ₂ for high efficiency dye-sensitized solar cells. Journal of Power Sources, 2015, 284, 428-434.	7.8	22
93	Simultaneous optimization of the overall thermoelectric properties of Cu ₃ SbSe ₄ by band engineering and phonon blocking. Journal of Alloys and Compounds, 2017, 724, 597-602.	5.5	22
94	Electrochemical deposition of PbI ₂ for perovskite solar cells. Solar Energy, 2018, 159, 300-305.	6.1	21
95	High Power Factor and Thermoelectric Figure of Merit in Sb ₂ Si ₂ Te ₆ through Synergetic Effect of Ca Doping. Chemistry of Materials, 2021, 33, 8097-8105.	6.7	21
96	High Thermoelectric Performance SnTe with a Segregated and Percolated Structure. ACS Applied Materials & Interfaces, 2022, , .	8.0	21
97	Enhanced photovoltaic performance of CdS quantum dots sensitized highly oriented two-end-opened TiO ₂ nanotubes array membrane. Journal of Power Sources, 2014, 250, 174-180.	7.8	20
98	The improvement of thermoelectric property of bulk ZnO via ZnS addition: Influence of intrinsic defects. Ceramics International, 2018, 44, 6461-6465.	4.8	20
99	An <i>in situ</i> eutectic remelting and oxide replacement reaction for superior thermoelectric performance of InSb. Journal of Materials Chemistry A, 2018, 6, 17049-17056.	10.3	20
100	Effect of La filling on thermoelectric properties of La _x Co _{3.6} Ni _{0.4} Sb ₁₂ -filled skutterudite prepared by MA ϵ HP method. Journal of Solid State Chemistry, 2006, 179, 212-216.	2.9	19
101	CuCrSe ₂ Ternary Chromium Chalcogenide: Facile Fabrication, Doping and Thermoelectric Properties. Journal of the American Ceramic Society, 2015, 98, 3975-3980.	3.8	19
102	Preparation and thermoelectric properties of La _x FeCo ₃ Sb ₁₂ skutterudites by mechanical alloying and hot pressing. Journal of Alloys and Compounds, 2006, 421, 105-108.	5.5	18
103	Thermal Stability of P-Type BiSbTe Alloys Prepared by Melt Spinning and Rapid Sintering. Materials, 2017, 10, 617.	2.9	18
104	Ecofriendly Highly Robust Ag ₈ SiSe ₆ -Based Thermoelectric Composites with Excellent Performance Near Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 54653-54661.	8.0	18
105	AgSbTe ₂ nanoinclusion in Yb _{0.2} Co ₄ Sb ₁₂ for high performance thermoelectrics. Intermetallics, 2013, 43, 79-84.	3.9	17
106	Improvement of Thermoelectric Properties of Bi _{0.4} Sb _{1.6} Te ₃ with Addition of Nanoscale Zinc Oxide Particles. Journal of Electronic Materials, 2016, 45, 1266-1270.	2.2	17
107	Enhancement of Thermoelectric Performance in CuSbSe ₂ Nanoplate ϵ -Based Pellets by Texture Engineering and Carrier Concentration Optimization. Small, 2018, 14, e1803092.	10.0	17
108	High-Performance Planar Perovskite Solar Cells with a Reduced Energy Barrier and Enhanced Charge Extraction via a Na ₂ WO ₄ -Modified SnO ₂ Electron Transport Layer. ACS Applied Materials & Interfaces, 2022, 14, 7962-7971.	8.0	17

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109	Improvement of photovoltaic performance of perovskite solar cells by interface modification with CaTiO ₃ . <i>Journal of Power Sources</i> , 2020, 449, 227504.	7.8	16
110	Effect of processing parameters on formation and thermoelectric properties of La _{0.4} FeCo ₃ Sb ₁₂ skutterudite by MA μ HP method. <i>Journal of Alloys and Compounds</i> , 2009, 476, 802-806.	5.5	15
111	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.	7.9	15
112	Effect of Sn doping on thermoelectric properties of p-type manganese telluride. <i>Journal of Alloys and Compounds</i> , 2019, 777, 968-973.	5.5	15
113	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.	2.9	14
114	A new method for simultaneous measurement of Seebeck coefficient and resistivity. <i>Review of Scientific Instruments</i> , 2016, 87, 124901.	1.3	13
115	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.	10.3	13
116	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.	8.0	13
117	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.	2.2	12
118	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.	5.2	12
119	Effects of La doping induced carrier concentration regulation and band structure modification on thermoelectric properties of PbSe. <i>Scripta Materialia</i> , 2022, 208, 114360.	5.2	12
120	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.	5.1	11
121	Effect of TiC Nanoinclusions 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	10
122	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.	3.9	9
123	Hierarchical double-layered SnO ₂ film as a photoanode for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2013, 37, 1002.	2.8	8
124	ds-Block Element-Enabled Cooperative Regulation of Electrical and Thermal Transport for Extraordinary N- and P-Type PbSe Thermoelectrics near Room Temperature. <i>Chemistry of Materials</i> , 2022, 34, 1862-1874.	6.7	8
125	Enhanced thermoelectric performance of orientated and defected SnTe. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157634.	5.5	7
126	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie</i> , 2021, 133, 272-277.	2.0	7

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127	Fabrication of CdSe/CdTe Quantum Dots Co-Sensitized TiO ₂ Nanorods by Electrochemical Atomic Layer Deposition Method. Journal of the Electrochemical Society, 2015, 162, D137-D141.	2.9	6
128	Local Distortions and Metal-Semiconductor-Metal Transition in Quasi-One-Dimensional Nanowire Compounds AV ₃ Q ₃ O ₇ (A = K, Rb, Cs and Q = Se, Te). Chemistry of Materials, 2021, 33, 2611-2623.	6.7	6
129	Characterization and Thermoelectric Properties of La _{0.4} Ni _{0.2} Co _{3.8} Sb ₁₂ Filled Skutterudite Prepared by the MA-HP Method. Journal of the American Ceramic Society, 2011, 94, 277-280.	3.8	4
130	Enhancement of the thermoelectric performance of CuInTe ₂ via SnO ₂ in situ replacement. Journal of Materials Science: Materials in Electronics, 2018, 29, 4732-4737.	2.2	4
131	High-performance and long-term thermal management material of MIL-101Cr@GO. Materials Today Physics, 2022, 22, 100572.	6.0	4
132	Improved densification and thermoelectric performance of In ₅ SnSbO ₁₂ via Ga doping. Journal of Materials Science, 2018, 53, 6741-6751.	3.7	2
133	Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe ₂ Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small) Tj ETQq1 1 0.784814 rgBTz/Overlo	10.4	10
134	Two-dimensional layered architecture constructing energy and phonon blocks for enhancing thermoelectric performance of InSb. Science China Materials, 2022, 65, 1353.	6.3	2
135	All-scale Architecturing of Microstructure in Chalcogenide Thermoelectric Materials. Microscopy and Microanalysis, 2019, 25, 2236-2237.	0.4	1
136	Electron Doping and Physical Properties in the Ferromagnetic Semimetal Co ₃ Sn ₂ Sb ₂ S ₂ . Journal of Physical Chemistry C, 2022, 126, 7230-7237.	3.1	1