

Takao Mori

List of Publications by Year in descending order

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253
papers

7,737
citations

61984

43
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71685

76
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257
all docs

257
docs citations

257
times ranked

5322
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Characterization of Well-Ordered Hexagonal Mesoporous Carbon Nitride. <i>Advanced Materials</i> , 2005, 17, 1648-1652.	21.0	512
2	Thermoelectric materials and applications for energy harvesting power generation. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 836-862.	6.1	413
3	Novel Principles and Nanostructuring Methods for Enhanced Thermoelectrics. <i>Small</i> , 2017, 13, 1702013.	10.0	265
4	Thermoelectric performance of a metastable thin-film Heusler alloy. <i>Nature</i> , 2019, 576, 85-90.	27.8	232
5	Demonstration of ultrahigh thermoelectric efficiency of $\sim 7.3\%$ in Mg ₃ Sb ₂ /MgAgSb module for low-temperature energy harvesting. <i>Joule</i> , 2021, 5, 1196-1208.	24.0	205
6	Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. <i>Nano Energy</i> , 2017, 31, 152-159.	16.0	201
7	Polymer based thermoelectric nanocomposite materials and devices: Fabrication and characteristics. <i>Nano Energy</i> , 2020, 78, 105186.	16.0	185
8	High Thermoelectric Power Factor in a Carrier-Doped Magnetic Semiconductor CuFeS ₂ . <i>Applied Physics Express</i> , 2013, 6, 043001.	2.4	161
9	Thermoelectricity Generation and Electron-Magnon Scattering in a Natural Chalcopyrite Mineral from a Deep-Sea Hydrothermal Vent. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12909-12913.	13.8	156
10	Materials for energy harvesting: At the forefront of a new wave. <i>MRS Bulletin</i> , 2018, 43, 176-180.	3.5	150
11	Observation of enhanced thermopower due to spin fluctuation in weak itinerant ferromagnet. <i>Science Advances</i> , 2019, 5, eaat5935.	10.3	143
12	Thermoelectric properties of CuGa _{1-x} Mn _x Te ₂ : power factor enhancement by incorporation of magnetic ions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7545-7554.	10.3	135
13	Manipulating the Ge Vacancies and Ge Precipitates through Cr Doping for Realizing the High-Performance GeTe Thermoelectric Material. <i>Small</i> , 2020, 16, e1906921.	10.0	129
14	Enhanced thermoelectric performance of Bi ₂ Sb ₂ Te/Sb ₂ O ₃ nanocomposites by energy filtering effect. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21341-21349.	10.3	116
15	Magnetism-mediated thermoelectric performance of the Cr-doped bismuth telluride tetradymite. <i>Materials Today Physics</i> , 2019, 9, 100090.	6.0	112
16	Maximizing the performance of n-type Mg ₃ Bi ₂ based materials for room-temperature power generation and thermoelectric cooling. <i>Nature Communications</i> , 2022, 13, 1120.	12.8	101
17	Thermoelectric properties of homologous p- and n-type boron-rich borides. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2908-2915.	2.9	90
18	Synthesis and thermoelectric behaviour of copper telluride nanosheets. <i>Journal of Materials Chemistry A</i> , 2014, 2, 985-990.	10.3	88

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19	Enhanced thermoelectric performance through crystal field engineering in transition metal ^d -doped GeTe. <i>Materials Today Physics</i> , 2019, 9, 100094.	6.0	85
20	Enhanced thermoelectric performance of porous magnesium tin silicide prepared using pressure-less spark plasma sintering. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17426-17432.	10.3	84
21	Dynamical properties of a crystalline rare-earth boron cluster spin-glass system. <i>Physical Review B</i> , 2003, 68, .	3.2	81
22	High Power Factor and Enhanced Thermoelectric Performance in Sc and Bi Codoped GeTe: Insights into the Hidden Role of Rhombohedral Distortion Degree. <i>Advanced Energy Materials</i> , 2020, 10, 2002588.	19.5	75
23	Magnetic Properties of Terbium B12Icosahedral Boron-Rich Compounds. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 2033-2039.	1.6	71
24	Sb Doping of Metallic CuCr ₂ S ₄ as a Route to Highly Improved Thermoelectric Properties. <i>Chemistry of Materials</i> , 2017, 29, 2988-2996.	6.7	68
25	High temperature thermoelectric properties of a homologous series of n-type boron icosahedra compounds: A possible counterpart to p-type boron carbide. <i>Journal of Applied Physics</i> , 2007, 101, 093714.	2.5	67
26	A robust starch ^d -polyacrylamide hydrogel with scavenging energy harvesting capacity for efficient solar thermoelectricity ^d -freshwater cogeneration. <i>Energy and Environmental Science</i> , 2022, 15, 3388-3399.	30.8	63
27	Thermoelectric and magnetic properties of rare earth borides: Boron cluster and layered compounds. <i>Journal of Solid State Chemistry</i> , 2019, 275, 70-82.	2.9	62
28	Hybrid effect to possibly overcome the trade-off between Seebeck coefficient and electrical conductivity. <i>Scripta Materialia</i> , 2016, 111, 44-48.	5.2	61
29	Energy ^d -Saving Pathways for Thermoelectric Nanomaterial Synthesis: Hydrothermal/Solvothermal, Microwave ^d -Assisted, Solution ^d -Based, and Powder Processing. <i>Advanced Science</i> , 2022, 9, .	11.2	60
30	Thermoelectric properties of a magnetic semiconductor CuFeS ₂ . <i>Materials Today Physics</i> , 2017, 3, 85-92.	6.0	59
31	Coupling of charge carriers with magnetic entropy for power factor enhancement in Mn doped Sn _{1.03} Te for thermoelectric applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6489-6493.	5.5	56
32	Phase Stability and Thermoelectric Properties of CuFeS ₂ -Based Magnetic Semiconductor. <i>Journal of Electronic Materials</i> , 2014, 43, 2371-2375.	2.2	55
33	Enhanced thermoelectric properties of samarium boride. <i>Journal of Materiomics</i> , 2015, 1, 196-204.	5.7	52
34	High temperature thermoelectric properties of B12 icosahedral cluster-containing rare earth boride crystals. <i>Journal of Applied Physics</i> , 2005, 97, 093703.	2.5	51
35	Recent Progress on Mixed-Anion Materials for Energy Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 26-37.	3.2	51
36	Key properties of inorganic thermoelectric materials ^d -tables (version 1). <i>JPhys Energy</i> , 2022, 4, 022002.	5.3	51

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37	Magnetism and superconductivity of rare earth borides. Journal of Alloys and Compounds, 2020, 821, 153201.	5.5	50
38	Influence of Carrier Density and Energy Barrier Scattering on a High Seebeck Coefficient and Power Factor in Transparent Thermoelectric Copper Iodide. ACS Applied Energy Materials, 2020, 3, 10037-10044.	5.1	49
39	Perspectives of High-Temperature Thermoelectric Applications and p-type and n-type Aluminoborides. Jom, 2016, 68, 2673-2679.	1.9	47
40	Microstructurally Tailored Thin Ag_2Se Films toward Commercial Flexible Thermoelectrics. Advanced Materials, 2022, 34, e2104786.	21.0	47
41	Thermal conductivity of YbB_4Si_2 . Journal of Applied Physics, 2007, 102, 073510.	2.5	46
42	Crystal structure, chemical bonding, electrical transport, and magnetic behavior of TmAlB_4 . Physical Review B, 2007, 76, .	3.2	46
43	Improvement in the thermoelectric properties of porous networked Al-doped ZnO nanostructured materials synthesized <i>via</i> an alternative interfacial reaction and low-pressure SPS processing. Inorganic Chemistry Frontiers, 2020, 7, 4118-4132.	6.0	46
44	Spin glass behavior in rhombohedral B_{12} cluster compounds. Physical Review B, 2002, 66, .	3.2	45
45	Excellent p-n control in a high temperature thermoelectric boride. Applied Physics Letters, 2012, 101, .	3.3	44
46	Screening of transition (Y, Zr, Hf, V, Nb, Mo, and Ru) and rare-earth (La and Pr) elements as potential effective dopants for thermoelectric GeTe – an experimental and theoretical appraisal. Journal of Materials Chemistry A, 2020, 8, 19805-19821.	10.3	43
47	Higher Borides. Fundamental Theories of Physics, 2008, , 105-173.	0.3	42
48	Boosting the thermoelectric performance of $\text{Fe}_{1-x}\text{Mn}_x\text{Mg}_{1-x}\text{Mn}_x$ Heusler compounds by band engineering. Physical Review B, 2021, 103, .	8.2	41
49	Two-Dimensional Layered Complex Nitrides as a New Class of Thermoelectric Materials. Chemistry of Materials, 2014, 26, 2532-2536.	6.7	39
50	Local Atomic Arrangements and Band Structure of Boron Carbide. Angewandte Chemie - International Edition, 2018, 57, 6130-6135.	13.8	39
51	Physical Insights on the Lattice Softening Driven Mid-Temperature Range Thermoelectrics of Ti/Zr -Inserted SnTe – An Outlook Beyond the Horizons of Conventional Phonon Scattering and Excavation of Heikes™ Equation for Estimating Carrier Properties. Advanced Energy Materials, 2021, 11, 2101122.	19.5	39
52	A material catalogue with glass-like thermal conductivity mediated by crystallographic occupancy for thermoelectric application. Energy and Environmental Science, 2021, 14, 3579-3587.	30.8	37
53	Effect of transition metal doping and carbon doping on thermoelectric properties of YB_6 single crystals. Journal of Solid State Chemistry, 2006, 179, 2889-2894.	2.9	36
54	Thermoelectric properties of the chalcopyrite $\text{Cu}_{1-x}\text{MxFeS}_2$ series (M = Mn, Co, Ni). RSC Advances, 2016, 6, 55117-55124.	3.6	36

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55	Ultra low thermal conductivity of disordered layered p-type bismuth telluride. Journal of Materials Chemistry C, 2013, 1, 2362.	5.5	35
56	Doping effect in a magnetic TbB50-type B12 cluster compound. Journal of Applied Physics, 2004, 95, 7204-7206.	2.5	34
57	Ferromagnetism and electronic structure of TmB2. Physical Review B, 2009, 79, .	3.2	34
58	Effect of Zn doping on improving crystal quality and thermoelectric properties of borosilicides. Dalton Transactions, 2010, 39, 1027-1030.	3.3	34
59	Effect of two different size chiral ligand-capped gold nanoparticle dopants on the electro-optic and dielectric dynamics of a ferroelectric liquid crystal mixture. Liquid Crystals, 2016, 43, 695-703.	2.2	34
60	First-principles calculations of Seebeck coefficients in a magnetic semiconductor CuFeS2. Applied Physics Letters, 2017, 110, .	3.3	34
61	Magnetic Transitions in B12Icosahedral Cluster Compounds REB50(RE=Tb, Dy, Ho, Er). Journal of the Physical Society of Japan, 2000, 69, 579-585.	1.6	33
62	Thermal conductivity of layered borides: The effect of building defects on the thermal conductivity of TmAlB4 and the anisotropic thermal conductivity of AlB2. APL Materials, 2014, 2, .	5.1	32
63	Shaping the role of germanium vacancies in germanium telluride: metastable cubic structure stabilization, band structure modification, and stable N-type conduction. NPG Asia Materials, 2020, 12, .	7.9	32
64	Electrical, optical, and thermoelectric properties of Ga2O3(ZnO)9. RSC Advances, 2011, 1, 1788.	3.6	31
65	Anisotropic Anomalies of Thermoelectric Transport Properties and Electronic Structures in Layered Complex Nitrides AMN ₂ (A = Na, Cu; M = Ta, Nb). Chemistry of Materials, 2015, 27, 7265-7275.	6.7	30
66	Magnetic transitions in B12 icosahedral boron-rich compounds TbB50 and TbB41Si1.2: Lattice constant dependence of the transition. Journal of Alloys and Compounds, 1999, 288, 32-35.	5.5	28
67	Thermal conductivity of PrRh4.8B2, a layered boride compound. APL Materials, 2017, 5, 126103.	5.1	28
68	Role of phase separation in nanocomposite indium-tin-oxide films for transparent thermoelectric applications. Journal of Materiomics, 2021, 7, 612-620.	5.7	28
69	Synthesis and magnetic properties of binary boride REB25 compounds. Journal of Physics Condensed Matter, 2001, 13, L423-L430.	1.8	27
70	Organic ĩ€-type thermoelectric module supported by photolithographic mold: a working hypothesis of sticky thermoelectric materials. Science and Technology of Advanced Materials, 2018, 19, 517-525.	6.1	27
71	Thermoelectric materials taking advantage of spin entropy: lessons from chalcogenides and oxides. Science and Technology of Advanced Materials, 2021, 22, 583-596.	6.1	27
72	The origin of the n-type behavior in rare earth borocarbide Y _{1-x} B _{28.5} C ₄ . Dalton Transactions, 2014, 43, 15048-15054.	3.3	26

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73	Is LiI a Potential Dopant Candidate to Enhance the Thermoelectric Performance in Sb-Free GeTe Systems? A Prelusive Study. <i>Energies</i> , 2020, 13, 643.	3.1	26
74	Thermoelectric Enhancement of Silicon Membranes by Ultrathin Amorphous Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12027-12031.	8.0	25
75	Nanostructured planar-type uni-leg Si thermoelectric generators. <i>Applied Physics Express</i> , 2020, 13, 095001.	2.4	25
76	Improved thermoelectric performance of GeTe via efficient yttrium doping. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	25
77	Effect of native defects on thermoelectric properties of copper iodide films. <i>Emergent Materials</i> , 2021, 4, 761-768.	5.7	25
78	Thermoelectric properties and spark plasma sintering of doped YB ₂₂ C ₂ N. <i>Journal of Materials Research</i> , 2010, 25, 665-669.	2.6	24
79	Synthesis and thermoelectric properties of composite oxides in the pseudobinary system ZnO-Ga ₂ O ₃ . <i>Solid State Sciences</i> , 2017, 65, 29-32.	3.2	24
80	Microstructure analysis and thermoelectric properties of iron doped CuGaTe ₂ . <i>Journal of Materiomics</i> , 2018, 4, 221-227.	5.7	24
81	Flexible n-Type Abundant Chalcopyrite/PEDOT:PSS/Graphene Hybrid Film for Thermoelectric Device Utilizing Low-Grade Heat. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51245-51254.	8.0	24
82	Heterometallic Benzenehexathiolato Coordination Nanosheets: Periodic Structure Improves Crystallinity and Electrical Conductivity. <i>Advanced Materials</i> , 2022, 34, e2106204.	21.0	24
83	Magnetic properties of thulium aluminoboride TmAlB ₄ . <i>Journal of Applied Physics</i> , 2005, 97, 10A910.	2.5	23
84	Anomalous effect of vanadium boride seeding on thermoelectric properties of YB ₂₂ C ₂ N. <i>Materials Research Bulletin</i> , 2013, 48, 1972-1977.	5.2	23
85	High-pressure effect on the superconductivity of $YB_{22}C_2N_6$. <i>Physical Review B</i> , 2014, 90, .	3.2	23
86	Magnetism of CaB ₂ C ₂ . <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1789-1790.	1.6	22
87	Deposition of thermoelectric strontium hexaboride thin films by a low pressure CVD method. <i>Journal of Crystal Growth</i> , 2016, 449, 10-14.	1.5	22
88	Sintering characteristics and thermoelectric properties of Mn–Al co-doped ZnO ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 515-522.	1.1	22
89	An alternative, faster and simpler method for the formation of hierarchically porous ZnO particles and their thermoelectric performance. <i>RSC Advances</i> , 2017, 7, 31960-31968.	3.6	22
90	Thermoelectric Properties of Bi-Doped Magnesium Silicide Stannides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40585-40591.	8.0	22

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109	Magnetism of the trigonal B12 cluster compound REB17CN (RE=Er, Ho). Journal of Applied Physics, 2003, 93, 7664-7666.	2.5	17
110	Effect of Transition-Metal Additives on Thermoelectric Properties of YB22C2N. Journal of Electronic Materials, 2011, 40, 920-925.	2.2	17
111	Thermoelectric properties of amorphous ZnO _x N _y thin films at room temperature. Applied Physics Letters, 2019, 114, .	3.3	17
112	Significant off-stoichiometry effect leading to the N-type conduction and ferromagnetic properties in titanium doped Fe ₂ VAI thin films. Acta Materialia, 2020, 200, 848-856.	7.9	17
113	Influence of Stoichiometry and Aging at Operating Temperature on Thermoelectric Higher Manganese Silicides. Chemistry of Materials, 2020, 32, 10601-10609.	6.7	17
114	The electronic pseudo band gap states and electronic transport of the full-Heusler compound Fe ₂ VAI. Journal of Materials Chemistry C, 2021, 9, 2073-2085.	5.5	17
115	Realization of the YB50 structure type in the gadolinium borides. Materials Research Bulletin, 2001, 36, 2463-2470.	5.2	16
116	Focus on advanced materials for energy harvesting: prospects and approaches of energy harvesting technologies. Science and Technology of Advanced Materials, 2018, 19, 543-544.	6.1	16
117	Visualizing nanoscale heat pathways. Nano Energy, 2018, 52, 323-328.	16.0	16
118	Exploring the thermoelectric behavior of spark plasma sintered Fe _{7-x} CoxS ₈ compounds. Journal of Alloys and Compounds, 2020, 819, 152999.	5.5	16
119	Magnetic Ordering in Boron-Rich Borides TbB ₆₆ and GdB ₆₆ . Acta Physica Polonica A, 2010, 118, 875-876.	0.5	16
120	Physical properties of layered homologous RE ^{II} B ^{II} C(N) compounds. Journal of Solid State Chemistry, 2004, 177, 444-448.	2.9	15
121	Three-Dimensionality of Electronic Structures and Thermoelectric Transport in SrZrN ₂ and SrHfN ₂ Layered Complex Metal Nitrides. Inorganic Chemistry, 2014, 53, 8979-8984.	4.0	15
122	HAXPES study of CeO thin film ^{II} silicon oxide interface. Applied Surface Science, 2014, 303, 46-53.	6.1	15
123	Synthesis and the physical properties of layered copper oxytellurides Sr ₂ TMCu ₂ Te ₂ O ₂ (TM = Mn, Co, Zn). Journal of Materials Chemistry C, 2018, 6, 12260-12266.	5.5	15
124	Probing of Thermal Transport in 50 nm Thick PbTe Nanocrystal Films by Time-Domain Thermoreflectance. Journal of Physical Chemistry C, 2018, 122, 27127-27134.	3.1	15
125	Structural Properties and Thermoelectric Performance of the Double-Filled Skutterudite (Sm,Gd)y(Fe _x Ni _{1-x}) ₄ Sb ₁₂ . Materials, 2019, 12, 2451.	2.9	15
126	Mesostructure - thermoelectric properties relationships in V Mn _{1-x} Si _{1.74} (x ^{II} = 0, 0.04) higher manganese silicides prepared ^{II} magnesiothermy. Journal of Alloys and Compounds, 2020, 816, 152577.	5.5	15

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127	Robust, Transparent Hybrid Thin Films of Phase-Change Material Sb ₂ S ₃ Prepared by Electrophoretic Deposition. ACS Applied Energy Materials, 2021, 4, 9891-9901.	5.1	15
128	Anderson transition in stoichiometric Fe ₂ VAl: high thermoelectric performance from impurity bands. Nature Communications, 2022, 13, .	12.8	15
129	Electron-spin-resonance study of gadolinium borosilicide: A rare-earth ladder compound. Journal of Applied Physics, 2006, 99, 08J309.	2.5	14
130	Pt and Sn Doped Sputtered CeO ₂ Electrodes for Fuel Cell Applications. Fuel Cells, 2010, 10, 139-144.	2.4	14
131	Theoretical and experimental investigation of the excellent μ n control in yttrium aluminoborides. Science and Technology of Advanced Materials, 2014, 15, 035012.	6.1	14
132	Drastic power factor improvement by Te doping of rare earth-free CoSb ₃ -skutterudite thin films. RSC Advances, 2020, 10, 21129-21135.	3.6	14
133	Bonding heterogeneity in mixed-anion compounds realizes ultralow lattice thermal conductivity. Journal of Materials Chemistry A, 2021, 9, 22660-22669.	10.3	14
134	Solubility limit and annealing effects on the microstructure & thermoelectric properties of $\text{Fe}_{2-x}\text{V}\text{Al}$	7.9	14
135	High solubility of Al and enhanced thermoelectric performance due to resonant states in Fe ₂ VAl _x . Applied Physics Letters, 2022, 120, .	3.3	14
136	Direct elucidation of the effect of building defects on the physical properties of alpha-TmAlB ₄ ; An AlB ₂ -type analogous $\text{A}^{\text{II}}\text{B}_4$ compound. Journal of Applied Physics, 2012, 111, 07E127.	2.5	13
137	Effect of spark plasma sintering (SPS) on the thermoelectric properties of magnesium ferrite. Materials for Renewable and Sustainable Energy, 2017, 6, 1.	3.6	13
138	Miniaturized in-plane I^{II} -type thermoelectric device composed of a II^{IV} semiconductor thin film prepared by microfabrication. Materials Today Energy, 2022, 28, 101075.	4.7	13
139	Specific Heat of Antiferromagnetic-like TbB ₄ Si _{1.2} , a B ₁₂ Icosahedral Boron-Rich Compound. Journal of Solid State Chemistry, 2000, 154, 223-228.	2.9	12
140	Homologous Phases Built by Boron Clusters and Their Vibrational Properties. Inorganic Chemistry, 2001, 40, 6948-6951.	4.0	12
141	f-electron dependence of the physical properties of REAlB ₄ ; an AlB ₂ -type analogous $\text{A}^{\text{II}}\text{B}_4$ compound. Journal of Applied Physics, 2011, 109, 07E111.	2.5	12
142	Origin of Projected Excellent Thermoelectric Transport Properties in $d^{0-\text{II}}$ -Electron AMN ₂ (A = Sr or Ba; M = Ti, Zr, Hf) Layered Complex Metal Nitrides. European Journal of Inorganic Chemistry, 2015, 2015, 3715-3722.	2.0	12
143	Anisotropic thermoelectric properties in layered complex nitrides with I^{II} -NaFeO ₂ -type structure. APL Materials, 2016, 4, 104808.	5.1	12
144	Effect of Nanostructuring and High-Pressure Torsion Process on Thermal Conductivity of Carrier-Doped Chalcopyrite. Journal of Electronic Materials, 2016, 45, 1642-1647.	2.2	12

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145	Thermoelectric Properties of Variants of Cu ₄ Mn ₂ Te ₄ with Spinel-Related Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5258-5266.	4.0	12
146	Effect of addition of SiC and Al ₂ O ₃ refractories on Kapitza resistance of antimonide-telluride. <i>AIP Advances</i> , 2018, 8, .	1.3	12
147	Rapid deposition and thermoelectric properties of ytterbium boride thin films using hybrid physical chemical vapor deposition. <i>Materialia</i> , 2018, 1, 244-248.	2.7	12
148	High-resolution electron microscopy and X-ray diffraction study of intergrowth structures in $\hat{1}\pm$ - and $\hat{1}^2$ -type YbAlB ₄ single crystals. <i>Philosophical Magazine</i> , 2013, 93, 1054-1064.	1.6	11
149	Thermoelectric properties of phase pure boron carbide prepared by a solution-based method. <i>Advances in Applied Ceramics</i> , 2020, 119, 97-106.	1.1	11
150	Anionic conduction mediated giant n-type Seebeck coefficient in doped Poly(3-hexylthiophene) free-standing films. <i>Materials Today Physics</i> , 2021, 16, 100307.	6.0	11
151	The Effect of Reactive Electric Field-Assisted Sintering of MoS ₂ /Bi ₂ Te ₃ Heterostructure on the Phase Integrity of Bi ₂ Te ₃ Matrix and the Thermoelectric Properties. <i>Materials</i> , 2022, 15, 53.	2.9	11
152	Cold Spraying of Amorphous Cu ₅₀ Zr ₅₀ Alloys. <i>Journal of Thermal Spray Technology</i> , 2014, 24, 108.	3.1	10
153	Role of excess tellurium on the electrical and thermal properties in Te-doped paracostibite. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1811-1818.	5.5	10
154	Thermoelectric properties of MgTi ₂ O ₅ /TiN conductive composites prepared via reactive spark plasma sintering for high temperature functional applications. <i>Scripta Materialia</i> , 2020, 178, 44-50.	5.2	10
155	The roles of interstitial oxygen and phase compositions on the thermoelectric properties CuCr _{0.85} Mg _{0.15} O ₂ delafossite material. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158995.	5.5	10
156	Effect of Nanostructuring on the Thermoelectric Properties of $\hat{1}^2$ -FeSi ₂ . <i>Nanomaterials</i> , 2021, 11, 2852.	4.1	10
157	Thermoelectric properties of Sm-doped BiCuSeO oxyselenides fabricated by two-step reactive sintering. <i>Journal of Alloys and Compounds</i> , 2022, 912, 165208.	5.5	10
158	Revealing an elusive metastable wurtzite CuFeS ₂ and the phase switching between wurtzite and chalcopyrite for thermoelectric thin films. <i>Acta Materialia</i> , 2022, 235, 118090.	7.9	10
159	Effect of Transition Metal Doping in YB66. <i>Journal of Solid State Chemistry</i> , 2000, 154, 54-60.	2.9	9
160	Thermoelectric Properties of Ni _{0.05} Mo ₃ Sb _{5.4} Te _{1.6} with Embedded SiC and Al ₂ O ₃ Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 853-860.	2.0	9
161	Direct synthesis of p-type bulk BiCuSeO oxyselenides by reactive spark plasma sintering and related thermoelectric properties. <i>Scripta Materialia</i> , 2020, 187, 317-322.	5.2	9
162	Recent Developments and Progress on BiCuSeO Based Thermoelectric Materials. <i>Nanobiotechnology Reports</i> , 2021, 16, 294-307.	0.6	9

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163	Thermoelectric Performance Enhancement of Film by Pulse Electric Field and Multi-Phase Nanocomposite Strategy. <i>Small</i> , 2021, 17, e2100554.	10.0	9
164	Doping Effects in Rare-Earth Borides. <i>Journal of Electronic Materials</i> , 2009, 38, 1098-1103.	2.2	8
165	On the boron rich phases in the Yb-B system. <i>Journal of Solid State Chemistry</i> , 2017, 255, 172-177.	2.9	8
166	Fabrication of Mg ₂ Sn(111) film by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	8
167	On the thermoelectric and magnetic properties, hardness, and crystal structure of the higher boride YbB ₆ . <i>Journal of Alloys and Compounds</i> , 2020, 813, 152182.	5.5	8
168	New Synthesis Route for Complex Borides; Rapid Synthesis of Thermoelectric Yttrium Aluminoboride via Liquid-Phase Assisted Reactive Spark Plasma Sintering. <i>Scientific Reports</i> , 2020, 10, 8914.	3.3	8
169	Improvement of Thermoelectric Properties of Evaporated ZnO:Al Films by CNT and Au Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12713-12722.	3.1	8
170	Preparation of Ordered Nanoporous Indium Tin Oxides with Large Crystallites and Individual Control over Their Thermal and Electrical Conductivities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15373-15382.	8.0	8
171	High power factor in epitaxial Mg ₂ Sn thin films via Ga doping. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
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