

Takao Mori

List of Publications by Year in descending order

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253
papers

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citations

61984

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76
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257
all docs

257
docs citations

257
times ranked

5322
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress on Mixed-Anion Materials for Energy Applications. Bulletin of the Chemical Society of Japan, 2022, 95, 26-37.	3.2	51
2	Constructed Ge Quantum Dots and Sn Precipitate SiGeSn Hybrid Film with High Thermoelectric Performance at Low Temperature Region. Advanced Energy Materials, 2022, 12, .	19.5	22
3	Microstructurally Tailored Thin Ag_2Se Films toward Commercial Flexible Thermoelectrics. Advanced Materials, 2022, 34, e2104786.	21.0	47
4	Nanostructured Bulk Thermoelectric Materials for Energy Harvesting. NIMS Monographs, 2022, , 199-231.	0.3	5
5	Key properties of inorganic thermoelectric materialsâ”tables (version 1). JPhys Energy, 2022, 4, 022002.	5.3	51
6	Heterometallic Benzenehexathiolato Coordination Nanosheets: Periodic Structure Improves Crystallinity and Electrical Conductivity. Advanced Materials, 2022, 34, e2106204.	21.0	24
7	New record high thermoelectric ZT of delafossite-based CuCrO_2 thin films obtained by simultaneously reducing electrical resistivity and thermal conductivity via heavy doping with controlled residual stress. Applied Surface Science, 2022, 583, 152526.	6.1	5
8	Thermoelectric properties of Nb-doped $\text{Sr}_{1-x}(\text{La}_{0.5}\text{Na}_{0.5})_x\text{TiO}_3$ perovskites. Applied Physics Express, 2022, 15, 011003.	2.4	1
9	The Effect of Reactive Electric Field-Assisted Sintering of $\text{MoS}_2/\text{Bi}_2\text{Te}_3$ Heterostructure on the Phase Integrity of Bi_2Te_3 Matrix and the Thermoelectric Properties. Materials, 2022, 15, 53.	2.9	11
10	Rational Design of 3d Transition-Metal Compounds for Thermoelectric Properties by Using Periodic Trends in Electron-Correlation Modulation. Journal of the American Chemical Society, 2022, 144, 3590-3602.	13.7	7
11	High solubility of Al and enhanced thermoelectric performance due to resonant states in Fe_2VAl_x . Applied Physics Letters, 2022, 120, .	3.3	14
12	Thermoelectric Performance of n-Type Magnetic Element Doped Bi_2S_3 . ACS Applied Energy Materials, 2022, 5, 3845-3853.	5.1	19
13	Maximizing the performance of n-type Mg_3Bi_2 based materials for room-temperature power generation and thermoelectric cooling. Nature Communications, 2022, 13, 1120.	12.8	101
14	Improvement of Thermoelectric Properties via Texturation Using a Magnetic Slip Casting Processâ”The Illustrative Case of CrSi_2 . Chemistry of Materials, 2022, 34, 1143-1156.	6.7	3
15	Thermal conductivity of rare-earth titanate pyrochlores. Physical Review Materials, 2022, 6, .	2.4	2
16	Thermoelectric properties of Sm-doped BiCuSeO oxyselenides fabricated by two-step reactive sintering. Journal of Alloys and Compounds, 2022, 912, 165208.	5.5	10
17	Facile Fabrication of N-Type Flexible CoSb_3 -xTex Skutterudite/PEDOT:PSS Hybrid Thermoelectric Films. Polymers, 2022, 14, 1986.	4.5	2
18	Miniaturized in-plane I^{II} -type thermoelectric device composed of a I^{IV} semiconductor thin film prepared by microfabrication. Materials Today Energy, 2022, 28, 101075.	4.7	13

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19	Anderson transition in stoichiometric Fe ₂ VAI: high thermoelectric performance from impurity bands. Nature Communications, 2022, 13, .	12.8	15
20	Large thermoelectric power factors by opening the band gap in semimetallic Heusler alloys. Materials Today Physics, 2022, 27, 100742.	6.0	5
21	Revealing an elusive metastable wurtzite CuFeS ₂ and the phase switching between wurtzite and chalcopyrite for thermoelectric thin films. Acta Materialia, 2022, 235, 118090.	7.9	10
22	A robust starch-based polyacrylamide hydrogel with scavenging energy harvesting capacity for efficient solar thermoelectricity-freshwater cogeneration. Energy and Environmental Science, 2022, 15, 3388-3399.	30.8	63
23	Energy-Saving Pathways for Thermoelectric Nanomaterial Synthesis: Hydrothermal/Solvothermal, Microwave-Assisted, Solution-Based, and Powder Processing. Advanced Science, 2022, 9, .	11.2	60
24	The role of sulfur valency on thermoelectric properties of sulfur ion implanted copper iodide. Journal of Alloys and Compounds, 2022, 921, 166103.	5.5	4
25	Realization of closed-loop optimization of epitaxial titanium nitride thin-film growth via machine learning. Materials Today Physics, 2021, 16, 100296.	6.0	22
26	Transport properties of a molybdenum antimonide-telluride with dispersed NiSb nanoparticles. Materials Chemistry and Physics, 2021, 260, 124061.	4.0	1
27	Role of phase separation in nanocomposite indium-tin-oxide films for transparent thermoelectric applications. Journal of Materiomics, 2021, 7, 612-620.	5.7	28
28	Anionic conduction mediated giant n-type Seebeck coefficient in doped Poly(3-hexylthiophene) free-standing films. Materials Today Physics, 2021, 16, 100307.	6.0	11
29	Improved thermoelectric performance of GeTe via efficient yttrium doping. Applied Physics Letters, 2021, 118, .	3.3	25
30	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
31	Bonding heterogeneity in mixed-anion compounds realizes ultralow lattice thermal conductivity. Journal of Materials Chemistry A, 2021, 9, 22660-22669.	10.3	14
32	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
33	Improvement of power factor in the room temperature range of Mg ₂ Sn _{1-x} Ge _x . Japanese Journal of Applied Physics, 2021, 60, SBBF06.	1.5	6
34	Thermoelectric Performance of Cr Doped and Cr-Fe Double-Doped Higher Manganese Silicides with Adjusted Carrier Concentration and Significant Electron-Phonon Interaction. ACS Applied Materials & Interfaces, 2021, 13, 8574-8583.	8.0	18
35	Boosting the thermoelectric performance of Heusler compounds by band engineering. Physical Review B, 2021, 103, .	22	11
36	Effect of native defects on thermoelectric properties of copper iodide films. Emergent Materials, 2021, 4, 761-768.	5.7	25

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37	Preparation of Ordered Nanoporous Indium Tin Oxides with Large Crystallites and Individual Control over Their Thermal and Electrical Conductivities. ACS Applied Materials & Interfaces, 2021, 13, 15373-15382.	8.0	8
38	Thermoelectric Performance Enhancement of the Cost-Effective Phosphide ZnCu ₂ P ₈ . ACS Applied Energy Materials, 2021, 4, 4861-4866.	5.1	7
39	Recent Developments and Progress on BiCuSeO Based Thermoelectric Materials. Nanobiotechnology Reports, 2021, 16, 294-307.	0.6	9
40	Demonstration of ultrahigh thermoelectric efficiency of $\sim 147.3\%$ in Mg ₃ Sb ₂ /MgAgSb module for low-temperature energy harvesting. Joule, 2021, 5, 1196-1208.	24.0	205
41	The roles of interstitial oxygen and phase compositions on the thermoelectric properties CuCr _{0.85} Mg _{0.15} O ₂ delafossite material. Journal of Alloys and Compounds, 2021, 867, 158995.	5.5	10
42	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. limit and annealing effects on the microstructure & thermoelectric properties of	19.5	39
43	limit and annealing effects on the microstructure & thermoelectric properties of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \text{Fe} \langle \text{mml:mtext} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle V \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\sim} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \text{Ta} \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \text{Al} \langle \text{mml:mtext} \rangle \text{Acta Materialia, 2021,$	7.9	14
44	The low and high temperature thermoelectric properties of Yb ₃ Si ₅ . Materials Research Express, 2021, 8, 075504.	1.6	3
45	Effect of microstructure on lattice thermal conductivity of thermoelectric chalcopyrite CuFeS ₂ : experimental and computational studies. Applied Physics Express, 2021, 14, 087002.	2.4	7
46	Thermoelectrics: 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 (Adv. Energy Mater.) Tj ETQq0 0 0 YgBT / Overlock 10	19.5	39
47	Control of Competing Thermodynamics and Kinetics in Vapor Phase Thin-Film Growth of Nitrides and Borides. Frontiers in Chemistry, 2021, 9, 642388.	3.6	4
48	Thermoelectric Performance Enhancement of Film by Pulse Electric Field and Multi-Nanocomposite Strategy. Small, 2021, 17, e2100554.	10.0	9
49	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
50	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
51	Synthesis of novel hexamolybdenum cluster-functionalized copper hydroxide nanocomposites and its catalytic activity for organic molecule degradation. Science and Technology of Advanced Materials, 2021, 22, 758-771.	6.1	3
52	Fabrication and Evaluation of Low-Cost CrSi ₂ Thermoelectric Legs. Crystals, 2021, 11, 1140.	2.2	4
53	Thermoelectric properties of zinc-doped Cu ₅ Sn ₂ Se ₇ and Cu ₅ Sn ₂ Te ₇ . Dalton Transactions, 2021, 50, 6561-6567.	3.3	7
54	Investigation on the Power Factor of Skutterudite Smy(FexNi ^{1-x}) ₄ Sb ₁₂ Thin Films: Effects of Deposition and Annealing Temperature. Materials, 2021, 14, 5773.	2.9	4

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55	Effect of Nanostructuring on the Thermoelectric Properties of $\hat{1}^2$ -FeSi ₂ . <i>Nanomaterials</i> , 2021, 11, 2852.	4.1	10
56	Flexible <i>n</i> -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
57	Induced 2H-Phase Formation and Low Thermal Conductivity by Reactive Spark Plasma Sintering of 1T-Phase Pristine and Co-Doped MoS ₂ Nanosheets. <i>ACS Omega</i> , 2021, 6, 32783-32790.	3.5	3
58	Synthesis and Characterization of Al- and SnO ₂ -Doped ZnO Thermoelectric Thin Films. <i>Materials</i> , 2021, 14, 6929.	2.9	6
59	Thermoelectric materials developments: past, present, and future. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 998-999.	6.1	6
60	High power factor in epitaxial Mg ₂ Sn thin films via Ga doping. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
61	Theory of huge thermoelectric effect based on a magnon drag mechanism: Application to thin-film Heusler alloy. <i>Physical Review B</i> , 2021, 104, .	3.2	18
62	Determination of thermal diffusivity of thin films by applying Fourier expansion analysis to thermo-reflectance signal after periodic pulse heating. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	5
63	On the thermoelectric and magnetic properties, hardness, and crystal structure of the higher boride YbB ₆₆ . <i>Journal of Alloys and Compounds</i> , 2020, 813, 152182.	5.5	8
64	Mesostructure - thermoelectric properties relationships in V Mn _{1-x} Si _{1.74} ($x \hat{A}= 0, 0.04$) higher manganese silicides prepared by magnesia-thermy. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152577.	5.5	15
65	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
66	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
67	Exploring the thermoelectric behavior of spark plasma sintered Fe _{7-x} CoxS ₈ compounds. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152999.	5.5	16
68	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
69	<i>d</i> _{z²} orbital character of polyhedra in complex solid-state transition-metal compounds. <i>Dalton Transactions</i> , 2020, 49, 431-437.	3.3	3
70	Magnetism and superconductivity of rare earth borides. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153201.	5.5	50
71	Polymer based thermoelectric nanocomposite materials and devices: Fabrication and characteristics. <i>Nano Energy</i> , 2020, 78, 105186.	16.0	185
72	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

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73	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
74	Shaping the role of germanium vacancies in germanium telluride: metastable cubic structure stabilization, band structure modification, and stable N-type conduction. NPC Asia Materials, 2020, 12, .	7.9	32
75	Nanostructured planar-type uni-leg Si thermoelectric generators. Applied Physics Express, 2020, 13, 095001.	2.4	25
76	New Synthesis Route for Complex Borides; Rapid Synthesis of Thermoelectric Yttrium Aluminoboride via Liquid-Phase Assisted Reactive Spark Plasma Sintering. Scientific Reports, 2020, 10, 8914.	3.3	8
77	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. Nature Communications, 2020, 11, 5923.	12.8	20
78	Tailoring the thermoelectric and structural properties of Cu ²⁺ Sn based thiospinel compounds [CuM _{1+x} Sn _{1-x} S ₄ (M = Ti, V, Cr, Co)]. Journal of Materials Chemistry C, 2020, 8, 16368-16383.	5.5	21
79	Rare earth higher borides. Fundamental Theories of Physics, 2020, 58, 39-154.	0.3	5
80	Crystal structure and high temperature X-ray diffraction study of thermoelectric chimney-ladder FeGe (I ³ ̂% ^{1.52}). Journal of Alloys and Compounds, 2020, 846, 155696.	5.5	4
81	Significant off-stoichiometry effect leading to the N-type conduction and ferromagnetic properties in titanium doped Fe ₂ VAl thin films. Acta Materialia, 2020, 200, 848-856.	7.9	17
82	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
83	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
84	Influence of Stoichiometry and Aging at Operating Temperature on Thermoelectric Higher Manganese Silicides. Chemistry of Materials, 2020, 32, 10601-10609.	6.7	17
85	Improvement of Thermoelectric Properties of Evaporated ZnO:Al Films by CNT and Au Nanocomposites. Journal of Physical Chemistry C, 2020, 124, 12713-12722.	3.1	8
86	Unusual Lattice Dynamics and Anisotropic Thermal Conductivity in In ₂ Te ₅ Due to a Layered Structure and Planar-Coordinated Te-Chains. Chemistry of Materials, 2020, 32, 5335-5342.	6.7	22
87	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
88	Thermoelectric and magnetic properties of spark plasma sintered REB ₆ (RE = Y, Sm, Ho, Tm, Yb). Journal of the European Ceramic Society, 2020, 40, 3585-3591.	5.7	6
89	Direct synthesis of p-type bulk BiCuSeO oxyselenides by reactive spark plasma sintering and related thermoelectric properties. Scripta Materialia, 2020, 187, 317-322.	5.2	9
90	Is LiI a Potential Dopant Candidate to Enhance the Thermoelectric Performance in Sb-Free GeTe Systems? A Prelusive Study. Energies, 2020, 13, 643.	3.1	26

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91	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
92	Rational Design of Spinel-Type $\text{Cu}_{4}\text{Mn}_{2}\text{Te}_{4}/\text{TMTe}$ (TM = Co, Ni) Composites with Synergistically Manipulated Electrical and Thermal Transport Properties. <i>ACS Applied Energy Materials</i> , 2020, 3, 2096-2102.	5.1	5
93	Proximity coupling of superconducting nanograins with fractal distributions. <i>Physical Review B</i> , 2020, 101, .	3.2	2
94	Sticky thermoelectric materials for flexible thermoelectric modules to capture low-temperature waste heat. <i>MRS Advances</i> , 2020, 5, 481-487.	0.9	4
95	Experimental investigation of reciprocity of temperature response across two layer samples by flash method. <i>Review of Scientific Instruments</i> , 2020, 91, 014905.	1.3	2
96	Fabrication and Thermoelectric Properties of Chromium Silicide Thin Films. <i>Sensors and Materials</i> , 2020, 32, 2433.	0.5	2
97	Rapid synthesis of thermoelectric $\text{YB}_{22}\text{C}_{2}\text{N}$ via spark plasma sintering with gas/solid reaction technology. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 181-185.	1.1	3
98	Seebeck coefficients in CuFeS_2 thin films by first-principles calculations. <i>Japanese Journal of Applied Physics</i> , 2019, 58, S1B01.	1.5	3
99	Thermoelectric properties of amorphous ZnO_{x}N_y thin films at room temperature. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	17
100	Crystal Growth and some Properties of $\text{Tm}(\text{Al}_{1-x}\text{Mo}_x)\text{B}_4$ Synthesized by Al-Flux. <i>Solid State Phenomena</i> , 2019, 289, 65-70.	0.3	1
101	Thermoelectric performance of a metastable thin-film Heusler alloy. <i>Nature</i> , 2019, 576, 85-90.	27.8	232
102	Spectroscopic characterization at THz frequencies of glucose-based biomaterials: paramylon, paramylon-ester and cellulose. , 2019, , .		0
103	Structural Properties and Thermoelectric Performance of the Double-Filled Skutterudite $(\text{Sm,Gd})_y(\text{Fe}_x\text{Ni}_{1-x})_4\text{Sb}_{12}$. <i>Materials</i> , 2019, 12, 2451.	2.9	15
104	Crystal Growth and Physical Properties of $\text{Lu}(\text{Al}_{1-x}\text{T}_x)\text{B}_4$ ($\text{T} = \text{Fe, Cr}$) by Al-Self Flux. <i>Solid State Phenomena</i> , 2019, 289, 120-126.	0.3	3
105	Facile n control, and magnetic and thermoelectric properties of chromium selenides $\text{Cr}_{2+x}\text{Se}_3$. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8269-8276.	5.5	18
106	Enhanced thermoelectric performance through crystal field engineering in transition metal-doped GeTe. <i>Materials Today Physics</i> , 2019, 9, 100094.	6.0	85
107	Influence of Slight Substitution (Mn/In) on Thermoelectric and Magnetic Properties in Chalcopyrite-Type CuInTe_2 . <i>Journal of Electronic Materials</i> , 2019, 48, 4524-4532.	2.2	7
108	Thermoelectric Enhancement of Silicon Membranes by Ultrathin Amorphous Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12027-12031.	8.0	25

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109	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
110	Magnetism-mediated thermoelectric performance of the Cr-doped bismuth telluride tetradymite. <i>Materials Today Physics</i> , 2019, 9, 100090.	6.0	112
111	Observation of enhanced thermopower due to spin fluctuation in weak itinerant ferromagnet. <i>Science Advances</i> , 2019, 5, eaat5935.	10.3	143
112	Anisotropic thermal transport in magnetic intercalates $\text{Fe}_{1-x}\text{Sb}_x\text{Te}$. <i>Physical Review B</i> , 2019, 99, .	8.2	118
113	Development of thermoelectric thin films and characterization methods. <i>Journal of Physics: Conference Series</i> , 2019, 1407, 012055.	0.4	1
114	Thermoelectric Materials and Applicative Issues for Energy Harvesting to Power IoT Sensors and Devices. , 2019, , .		1
115	Magnesioreduction Synthesis of Co-Doped FeSi_2 : Mechanism, Microstructure, and Improved Thermoelectric Properties. <i>ACS Applied Energy Materials</i> , 2019, 2, 8525-8534.	5.1	20
116	Origin of Band Modulation in GeTe-Rich $\text{Ge}_{1-x}\text{Sb}_x\text{Te}$ Thin Film. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2619-2625.	4.3	3
117	Fabrication of $\text{Mg}_2\text{Sn}(111)$ film by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	8
118	Development of Nanoscale Thermocouple Probes for Local Thermal Measurements. <i>E-Journal of Surface Science and Nanotechnology</i> , 2019, 17, 102-107.	0.4	2
119	Reactive spark plasma sintering and thermoelectric properties of Nd-substituted BiCuSeO oxyselenides. <i>Journal of Alloys and Compounds</i> , 2019, 785, 96-104.	5.5	18
120	Noncovalent Modification of Single-Walled Carbon Nanotubes Using Thermally Cleavable Polythiophenes for Solution-Processed Thermoelectric Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4211-4218.	8.0	22
121	Syntheses and Properties of $\text{Yb}(\text{Al}_{1-x}\text{T}_x)_4\text{B}_4$ ($x = \text{Cr}$). <i>TJ ETQq1</i> 1 0.784314 rgBT Metallurgy, 2019, 66, 525-529.	0.2	2
122	Microstructure analysis and thermoelectric properties of iron doped CuGaTe_2 . <i>Journal of Materiomics</i> , 2018, 4, 221-227.	5.7	24
123	Local Atomic Arrangements and Band Structure of Boron Carbide. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6130-6135.	13.8	39
124	Thermoelectric Properties of Variants of $\text{Cu}_4\text{Mn}_2\text{Te}_4$ with Spinel-Related Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5258-5266.	4.0	12
125	Materials for energy harvesting: At the forefront of a new wave. <i>MRS Bulletin</i> , 2018, 43, 176-180.	3.5	150
126	Effect of addition of SiC and Al_2O_3 refractories on Kapitza resistance of antimonide-telluride. <i>AIP Advances</i> , 2018, 8, .	1.3	12

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127	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
128	Synthesis and the physical properties of layered copper oxytellurides Sr ₂ TMCu ₂ Te ₂ O ₂ (TM = Mn, Co, Zn). <i>Journal of Materials Chemistry C</i> , 2018, 6, 12260-12266.	5.5	15
129	Probing of Thermal Transport in 50 nm Thick PbTe Nanocrystal Films by Time-Domain Thermoreflectance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27127-27134.	3.1	15
130	Thermoelectric materials and applications for energy harvesting power generation. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 836-862.	6.1	413
131	Thermoelectric Properties of Bi-Doped Magnesium Silicide Stannides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40585-40591.	8.0	22
132	Novel Materials and Processes to Develop Viable Thermoelectrics. <i>Journal of Physics: Conference Series</i> , 2018, 1052, 012001.	0.4	1
133	Focus on advanced materials for energy harvesting: prospects and approaches of energy harvesting technologies. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 543-544.	6.1	16
134	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
135	Visualizing nanoscale heat pathways. <i>Nano Energy</i> , 2018, 52, 323-328.	16.0	16
136	Organic $\bar{\nu}$ -type thermoelectric module supported by photolithographic mold: a working hypothesis of sticky thermoelectric materials. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 517-525.	6.1	27
137	Synthesis of morphology controllable aluminum nitride by direct nitridation of $\hat{\nu}^3$ -AlOOH in the presence of N ₂ /H ₄ and their sintering behavior. <i>Journal of Asian Ceramic Societies</i> , 2018, 6, 63-69.	2.3	7
138	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
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140	Effect of spark plasma sintering (SPS) on the thermoelectric properties of magnesium ferrite. <i>Materials for Renewable and Sustainable Energy</i> , 2017, 6, 1.	3.6	13
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