

# Jong Soo Rhyee

## List of Publications by Citations

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125 papers	2,498 citations	26 h-index	45 g-index
135 ext. papers	2,872 ext. citations	5.8 avg, IF	5.09 L-index

#	Paper	IF	Citations
125	Peierls distortion as a route to high thermoelectric performance in $\text{In}_{1-x}\text{Sb}_x$ crystals. <i>Nature</i> , <b>2009</b> , 459, 965-8	50.4	428
124	Band Degeneracy, Low Thermal Conductivity, and High Thermoelectric Figure of Merit in $\text{SnTe}_{1-x}\text{Te}_x$ Alloys. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 376-384	9.6	180
123	High-Mobility Transistors Based on Large-Area and Highly Crystalline CVD-Grown $\text{MoSe}_2$ Films on Insulating Substrates. <i>Advanced Materials</i> , <b>2016</b> , 28, 2316-21	24	87
122	Enhancement of the thermoelectric figure-of-merit in a wide temperature range in $\text{In}_{1-x}\text{Sb}_x$ $\text{Cl}_{0.03}$ bulk crystals. <i>Advanced Materials</i> , <b>2011</b> , 23, 2191-4	24	81
121	Formation of Cu nanoparticles in layered $\text{Bi}_2\text{Te}_3$ and their effect on ZT enhancement. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11365		79
120	Ultralow Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in $\text{SnTe}_{1-x}\text{Ga}_x$ Materials. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 612-620	9.6	76
119	. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5344-5352	9.6	60
118	Synthesis, anisotropy, and superconducting properties of $\text{LiFeAs}$ single crystal. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 212508	3.4	59
117	Thermoelectric properties and anisotropic electronic band structure on the $\text{In}_{1-x}\text{Sb}_x$ compounds. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 212106	3.4	59
116	Enhancement of Thermoelectric Figure of Merit for $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ by Metal Nanoparticle Decoration. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1165-1169	1.9	54
115	Synergetic Enhancement of Thermoelectric Performance by Selective Charge Anderson Localization-Delocalization Transition in n-Type Bi-Doped $\text{PbTe}/\text{AgTe}$ Nanocomposite. <i>ACS Nano</i> , <b>2019</b> , 13, 3806-3815	16.7	48
114	Defect chemistry and enhancement of thermoelectric performance in Ag-doped $\text{Sn}_{1-x}\text{Ag}_x\text{Te}$ . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2235-2242	13	43
113	Colors of graphene and graphene-oxide multilayers on various substrates. <i>Nanotechnology</i> , <b>2012</b> , 23, 025708	3.4	39
112	Formation of midgap states and ferromagnetism in semiconducting $\text{CaB}_6$ . <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	35
111	Superconducting Properties of a Stoichiometric $\text{FeSe}$ Compound and Two Anomalous Features in the Normal State. <i>Journal of the Korean Physical Society</i> , <b>2011</b> , 59, 312-316	0.6	35
110	Thermoelectric properties of bipolar diffusion effect on $\text{In}_{1-x}\text{Sb}_x$ compounds. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 152104	3.4	34
109	High thermoelectric figure-of-merit in $\text{Sb}_2\text{Te}_3/\text{Ag}_2\text{Te}$ bulk composites as Pb-free p-type thermoelectric materials. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10494-10499	7.1	33

108	Indium substitution effect on thermoelectric and optical properties of Sn <sub>1-x</sub> In <sub>x</sub> Se compounds. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 682, 785-790	5.7	32
107	Effect of cationic substitution on the thermoelectric properties of In <sub>4-x</sub> M <sub>x</sub> Se <sub>2.95</sub> compounds (M = Na, Ca, Zn, Ga, Sn, Pb; x = 0.1). <i>Applied Physics Letters</i> , <b>2011</b> , 99, 102110	3.4	31
106	Interference of magnetic and anisotropic tensor susceptibility reflections in resonant X-ray scattering of Gd <sub>2</sub> B <sub>4</sub> . <i>Physical Review Letters</i> , <b>2003</b> , 91, 257205	7.4	31
105	Interstitial Mo-Assisted Photovoltaic Effect in Multilayer MoSe Phototransistors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705542	24	28
104	Thermoelectric properties and extremely low lattice thermal conductivity in p-type Bismuth Tellurides by Pb-doping and PbTe precipitation. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 671, 538-544	5.7	28
103	Vacancy-suppressed lattice conductivity of high-ZT In <sub>4</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	28
102	Magnon gap formation and charge density wave effect on thermoelectric properties in the SmNi <sub>2</sub> C <sub>2</sub> compound. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	28
101	High thermoelectric performance in pseudo quaternary compounds of (PbTe) <sub>0.95-x</sub> (PbSe) <sub>x</sub> (PbS) <sub>0.05</sub> by simultaneous band convergence and nano precipitation. <i>Acta Materialia</i> , <b>2017</b> , 131, 98-109	8.4	27
100	Enhancement of thermoelectric properties in liquid-phase sintered Te-excess bismuth antimony tellurides prepared by hot-press sintering. <i>Acta Materialia</i> , <b>2017</b> , 135, 297-303	8.4	26
99	Improvement in the thermoelectric performance of the crystals of halogen-substituted In <sub>4</sub> Se <sub>3</sub> H <sub>0.03</sub> (H = F, Cl, Br, I): Effect of halogen-substitution on the thermoelectric properties in In <sub>4</sub> Se <sub>3</sub> . <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5730		26
98	Thermoelectric properties of Se-deficient and Pb-/Sn-codoped In <sub>4</sub> Pb <sub>0.01</sub> Sn <sub>0.03</sub> Se <sub>3</sub> polycrystalline compounds. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, 933-936	5.7	25
97	Electrical transport properties and small polarons in Eu <sub>1-x</sub> CaxB <sub>6</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	24
96	High thermoelectric performance due to nano-inclusions and randomly distributed interface potentials in N-type (PbTe) <sub>0.93-x</sub> (Se) <sub>0.07</sub> (Cl) <sub>x</sub> (PbS) <sub>0.07</sub> composites. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13535-13543	13	23
95	Enhancement of thermoelectric properties in CuI-doped Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> by hot-deformation. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 531-536	5.7	21
94	Thermoelectric properties of SrTiO <sub>3</sub> nano-particles dispersed indium selenide bulk composites. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 223901	3.4	21
93	Superconductivity and anomalous transport in SrPd <sub>2</sub> Ge <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
92	Exotic Low-Energy Excitations Emergent in the Random Kitaev Magnet Cu <sub>2</sub> IrO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 122, 167202	7.4	20
91	Chemical Potential Tuning and Enhancement of Thermoelectric Properties in Indium Selenides. <i>Materials</i> , <b>2015</b> , 8, 1283-1324	3.5	20

- 90 Thermoelectric Properties and Low-Energy Carrier Filtering by Mo Microparticle Dispersion in an n-Type (CuI)Bi(Te,Se) Bulk Matrix. *ACS Applied Materials & Interfaces*, **2020**, 12, 38076-38084 9.5 20
- 89 Anomalous magnetoresistance at low temperatures ( $T \geq 10$  K) in a single crystal of GdBi<sub>4</sub>. *Journal of Applied Physics*, **2005**, 97, 10A923 2.5 19
- 88 Thermoelectric properties of Bi<sub>0.5</sub>Sb<sub>1.5</sub>Te<sub>3</sub>/Ag<sub>2</sub>Te bulk composites with size- and shape-controlled Ag<sub>2</sub>Te nano-particles dispersion. *Journal of Alloys and Compounds*, **2016**, 657, 639-645 5.7 17
- 87 Small-polaron transport and thermoelectric properties of the misfit-layer composite (BiSe)<sub>1.09</sub>TaSe<sub>2</sub>/TaSe<sub>2</sub>. *Physical Review B*, **2013**, 87, 3.3 17
- 86 The effect of boron purity on electric and magnetic properties of CaB<sub>6</sub>. *Journal of Applied Physics*, **2004**, 95, 6675-6677 2.5 17
- 85 Stabilization of metastable e-Fe<sub>2</sub>O<sub>3</sub> thin films using a GaFeO<sub>3</sub> buffer. *Journal of Applied Physics*, **2016**, 120, 185304 2.5 17
- 84 Enhancement of Thermoelectric Performance in Na-Doped PbSnTeSe S via Breaking the Inversion Symmetry, Band Convergence, and Nanostructuring by Multiple Elements Doping. *ACS Applied Materials & Interfaces*, **2018**, 10, 11613-11622 9.5 16
- 83 Enhancement of thermoelectric properties by lattice softening and energy band gap control in Te-deficient InTe<sub>1-x</sub>AlP *Advances*, **2018**, 8, 115227 1.5 16
- 82 Fine tuning of Fermi level by charged impurity-defect cluster formation and thermoelectric properties in n-type PbTe-based compounds. *Journal of Materials Chemistry A*, **2019**, 7, 16488-16500 13 14
- 81 Correlation between Geometrically Induced Oxygen Octahedral Tilts and Multiferroic Behaviors in BiFeO<sub>3</sub> Films. *Advanced Functional Materials*, **2018**, 28, 1800839 15.6 14
- 80 Thermal and electronic transport properties of CeTe<sub>2-x</sub>Sn<sub>x</sub> compounds. *Journal of Applied Physics*, **2009**, 105, 053712 2.5 14
- 79 Optical spectroscopy study of the electronic structure of Eu<sub>1-x</sub>CaxB<sub>6</sub>. *Physical Review B*, **2005**, 71, 3.3 14
- 78 Possible Charge Density Wave and Enhancement of Thermoelectric Properties at Mild-Temperature Range in n-Type CuI-Doped BiTeSe Compounds. *ACS Applied Materials & Interfaces*, **2020**, 12, 925-933 9.5 14
- 77 Ladder coordination polymers built from [Re<sub>4</sub>Q<sub>4</sub>(CN)<sub>12</sub>]<sub>4</sub><sup>-</sup> cluster anions (Q = S, Se, Te) and [Gd(phen)(H<sub>2</sub>O)<sub>3</sub>Gd(phen)(H<sub>2</sub>O)<sub>2</sub>(OH)<sub>2</sub>]<sub>4</sub><sup>+</sup> dimeric cationic fragments. *Polyhedron*, **2016**, 115, 174-179 2.7 14
- 76 Thermoelectric properties and chlorine doping effect of In<sub>4</sub>Pb<sub>0.01</sub>Sn<sub>0.03</sub>Se<sub>2.9</sub>Cl<sub>x</sub> polycrystalline compounds. *Dalton Transactions*, **2015**, 44, 3185-9 4.3 13
- 75 Temperature-Induced Lifshitz Transition and Charge Density Wave in InTe<sub>1-x</sub> Thermoelectric Materials. *ACS Applied Energy Materials*, **2020**, 3, 3628-3636 6.1 13
- 74 Possible Rashba band splitting and thermoelectric properties in CuI-doped Bi<sub>2</sub>Te<sub>2.7</sub>Se<sub>0.3</sub> bulk crystals. *Journal of Alloys and Compounds*, **2019**, 806, 636-642 5.7 13
- 73 Thermoelectric properties of chlorine doped compounds of In<sub>4</sub>Se<sub>2.7</sub>Cl<sub>x</sub>. *Journal of Applied Physics*, **2011**, 110, 083706 2.5 13

72	Magnetic anisotropy and magnon gap state of SmB <sub>4</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09E111	2.5	13
71	Magnetic anisotropy and electronic transport properties in single-crystalline compounds of EuCu <sub>2</sub> Ge <sub>2</sub> and EuCu <sub>2</sub> Si <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8346-8348	2.5	13
70	Grain growth mechanism and thermoelectric properties of hot press and spark plasma sintered Na-doped PbTe. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 786, 515-522	5.7	12
69	Second order magnetic phase transition and scaling analysis in iron doped manganite La <sub>0.7</sub> Ca <sub>0.3</sub> Mn <sub>1-x</sub> FexO <sub>3</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 395, 41-47	2.8	12
68	Electron doping dependence of ferromagnetism in Eu <sub>1-x</sub> LaxB <sub>6</sub> . <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	12
67	Thermoelectric, thermodynamic, and structural properties in Cu <sub>1.94</sub> A <sub>0.02</sub> Se (A=Al, Ga, and In) polycrystalline compounds. <i>Acta Materialia</i> , <b>2015</b> , 100, 32-38	8.4	11
66	Enhancement of Thermoelectric Performances in a Topological Crystal Insulator PbSnSe via Weak Perturbation of the Topological State and Chemical Potential Tuning by Chlorine Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10927-10934	9.5	11
65	Superconducting properties of the misfit-layer compound ( ) <sub>2</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 1517-1522	1.3	11
64	Magnetic properties in Ca-doped Eu hexaborides. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	11
63	Enhancement of thermoelectric properties by effective K-doping and nano precipitation in quaternary compounds of (Pb <sub>1-x</sub> K <sub>x</sub> Te) <sub>0.70</sub> (PbSe) <sub>0.25</sub> (PbS) <sub>0.05</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 62958-62967	3.7	10
62	Enhancement of mechanical and superconducting properties of MgB <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4407-4409	3.4	10
61	High thermoelectric performance and low thermal conductivity in K-doped SnSe polycrystalline compounds. <i>Current Applied Physics</i> , <b>2018</b> , 18, 1534-1539	2.6	10
60	Enhancement of thermoelectric performance via weak disordering of topological crystalline insulators and band convergence by Se alloying in Pb <sub>0.5</sub> Sn <sub>0.5</sub> Te <sub>1-x</sub> Sex. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5870-5879	13	9
59	Texture-induced reduction in electrical resistivity of p-type (Bi,Sb) <sub>2</sub> Te <sub>3</sub> by a hot extrusion. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 261-266	5.7	9
58	Coexistence of localized and collective magnetism in the coupled-spin-tetrahedra system Cu <sub>4</sub> Te <sub>5</sub> O <sub>12</sub> Cl <sub>4</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
57	Thermoelectricity and localized f-band control by dp-hybridization on the Ce <sub>1-x</sub> CuxSe <sub>2</sub> compounds. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 053705	2.5	9
56	Lattice distortion and anisotropic thermoelectric properties in hot-deformed CuI-doped Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152649	5.7	9
55	Magnetic polaron and unconventional magnetotransport properties of the single-crystalline compound EuBiTe <sub>3</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8

54	Strongly correlated and strongly coupled s-wave superconductivity of the high entropy alloy Ta <sub>1</sub> /6Nb <sub>2</sub> /6Hf <sub>1</sub> /6Zr <sub>1</sub> /6Ti <sub>1</sub> /6 compound. <i>Acta Materialia</i> , <b>2020</b> , 186, 250-256	8.4	8
53	Weak antilocalization and two-carrier electrical transport in Bi <sub>1-x</sub> Sb <sub>x</sub> single crystals (0% $\leq$ x $\leq$ 7.0%). <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	7
52	Multiple magnetic transitions and magnon gaplike characteristics in the high purity TbB <sub>4</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 09D509	2.5	7
51	Magnetocaloric effect and the change from first- to second-order magnetic phase transition in Pr <sub>0.7</sub> CaxSr <sub>0.3-x</sub> MnO <sub>3</sub> polycrystalline compounds. <i>AIP Advances</i> , <b>2018</b> , 8, 101417	1.5	7
50	Enhancement of thermoelectric properties over a wide temperature range by lattice disorder and chemical potential tuning in a (CuI) (BiTe) (BiSe) (BiS) quaternary system.. <i>RSC Advances</i> , <b>2019</b> , 9, 4190-4197	3.7	6
49	Anomalous transport properties in Eu <sub>1-x</sub> LaxB <sub>6</sub> (x=0.0, 0.05, 0.1, 0.2, and 0.3): Hall sign reversal in Eu <sub>1-x</sub> LaxB <sub>6</sub> (x=0.2). <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	6
48	Anomalous electronic transport and magnetic instability in Eu <sub>1-x</sub> LaxB <sub>6</sub> (x=0.0, 0.1, 0.2, and 0.3). <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10A901	2.5	6
47	Magnetic field driven critical behavior in bulk Gd. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 153903	2.5	5
46	Thermoelectric properties of p-type PbTe/Ag <sub>2</sub> Te bulk composites by extrinsic phase mixing. <i>AIP Advances</i> , <b>2015</b> , 5, 127223	1.5	5
45	Synergetic Approach for Superior Thermoelectric Performance in PbTe-PbSe-PbS Quaternary Alloys and Composites. <i>Energies</i> , <b>2020</b> , 13, 72	3.1	5
44	Thermoelectric Properties and Chemical Potential Tuning by K- and Se-Coalloying in (Pb <sub>0.5</sub> Sn <sub>0.5</sub> ) <sub>1-x</sub> K <sub>x</sub> Te <sub>0.95</sub> Se <sub>0.05</sub> . <i>Electronic Materials Letters</i> , <b>2019</b> , 15, 342-349	2.9	4
43	Fermi level tuning and weak localization/weak antilocalization competition of bulk single crystalline Bi(2-x)Sb(x)Se <sub>2</sub> Te compounds. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 025502	1.8	4
42	Specific Domain Pattern of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Thin Films Grown on Yttrium-Stabilized Zirconia (100) as a Nucleation Site for $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3544-3548	3.5	4
41	Enhancement of the thermoelectric properties in a mid-temperature range in a phase-separated In <sub>4</sub> Se <sub>3</sub> Cl <sub>y</sub> /BaIn <sub>2</sub> Se <sub>4</sub> composite. <i>Electronic Materials Letters</i> , <b>2014</b> , 10, 801-805	2.9	4
40	Thermoelectric properties and violation of the Wiedemann-Franz law in Bi <sub>2-x</sub> Cu <sub>x</sub> Se <sub>3</sub> (x $\leq$ 0.1). <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 695-700	0.6	4
39	Anisotropic magnetization and dynamic susceptibility sign change in single-crystal Na <sub>0.85</sub> CoO <sub>2</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	4
38	Size-Controlled Au-CuSe Core-Shell Nanoparticles and Their Thermoelectric Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36589-36599	9.5	4
37	Boltzmann transport calculation of thermoelectric properties in Ag <sub>2</sub> Se <sub>1-x</sub> Tex (x = 0.0 and 0.5). <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 165101	2.5	4



36	Development of High-Performance Thermoelectric Materials by Microstructure Control of P-Type BiSbTe Based Alloys Fabricated by Water Atomization. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
35	Pressure-dependent studies of electron doped hexaboride $\text{Eu}_{1-x}\text{Ba}_x\text{B}_6$ ( $x=0.05, 0.1$ ). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E423-E424	2.8	3
34	Constructed Ge Quantum Dots and Sn Precipitate SiGeSn Hybrid Film with High Thermoelectric Performance at Low Temperature Region. <i>Advanced Energy Materials</i> , 2103191	21.8	3
33	Phonon Scattering and Suppression of Bipolar Effect in MgO/VO Nanoparticle Dispersed p-Type BiSbTe Composites. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
32	Transistors: High-Mobility Transistors Based on Large-Area and Highly Crystalline CVD-Grown MoSe <sub>2</sub> Films on Insulating Substrates (Adv. Mater. 12/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 2278-2278	24	3
31	Magnetic field-induced type II Weyl semimetallic state in geometrically frustrated Shastry-Sutherland lattice $\text{Gd}_2\text{B}_4$ . <i>Materials Today Physics</i> , <b>2019</b> , 11, 100168	8	3
30	Charge localization crossover from Mott to Efros-Shklovskii type variable range hopping mechanism in $\text{In}_{1-x}\text{Pb}_x\text{Te}$ compounds. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158093	5.7	3
29	Quantum critical nature of the short-range magnetic order in $\text{Sr}_2\text{LaIrO}_4$ . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
28	Low-temperature thermoelectric properties of the $\text{CeSe}_2\text{S}_x$ compounds. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 618, 724-727	5.7	2
27	Kondo-like behavior in magnetic and thermal properties of single-crystal $\text{Tm}_5\text{Si}_2\text{Ge}_2$ . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	2
26	Dimensional crossover of charge density wave and thermoelectric properties in $\text{CeTe}_2\text{S}_x$ single crystals. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 143901	3.4	2
25	Possible adiabatic polaronic hopping in $\text{Ca}_{1-x}\text{Eu}_x\text{B}_6$ ( $x=0.005, 0.01$ , and $0.05$ ). <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	2
24	Emergence of high-performing and ultra-fast 2D-graphene nano-biosensing system. <i>Materials Letters</i> , <b>2021</b> , 308, 131241	3.3	2
23	Enhanced thermoelectric performance of Mo nanoparticle decorated n-type $\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ powder composites. <i>Applied Surface Science</i> , <b>2021</b> , 548, 149200	6.7	2
22	Dataset on the electronic and thermal transport properties of quaternary compounds of $(\text{PbTe})(\text{PbSe})(\text{PbS})$ . <i>Data in Brief</i> , <b>2017</b> , 13, 233-241	1.2	1
21	Phase separation and interface effect in pseudo-quaternary composites of $\text{Ag}_x\text{Bi}_{0.5}\text{Sb}_{1.5-x}\text{Te}_3$ . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 708, 1018-1025	5.7	1
20	Enhancement of Thermoelectric Properties in n-Type $\text{Cu}_{0.01}\text{Bi}_2\text{Te}_{2.3+x}\text{Se}_{0.7}$ ( $0 \leq x \leq 0.7$ ) Compounds with Te-Excess. <i>Electronic Materials Letters</i> , <b>2018</b> , 14, 139-145	2.9	1
19	Growth, domain structure, and magnetic properties of $\text{CaMnO}_3(110)$ and $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3(110)$ layers synthesized on hexagonal $\text{YMnO}_3(0001)$ . <i>CrystEngComm</i> , <b>2017</b> , 19, 5269-5274	3.3	1

18	Thermoelectric properties and chemical potential tuning by Cu-doping in n-type ionic conductors $\text{Cu}_x\text{Ag}_{2-x}\text{Se}_{0.5}\text{Te}_{0.5}$ . <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 111, 214-218	3.9	1
17	Zero field magnetic phase transitions and anomalous low temperature upturn in resistivity of single crystalline $\text{ErMAlB}_4$ . <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09E148	2.5	1
16	Antiferromagnetic Order and Valence Fluctuation in $\text{EuPd}_2(\text{Ge}_{1-x}\text{Si}_x)_2$ . <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 252-254	1.5	1
15	Optical properties of $\text{La}_{1-x}\text{Sr}_x\text{VO}_3$ ( $0 \leq x \leq 1$ ) films grown on LSAT substrates using radio frequency sputtering deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 013401	2.9	1
14	Effective phonon scattering and enhancement of thermoelectric performance in Ga-excess $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ compounds. <i>Current Applied Physics</i> , <b>2020</b> , 20, 1036-1040	2.6	1
13	Scattering Mechanisms and Suppression of Bipolar Diffusion Effect in $\text{BiTeSeI}$ Compounds. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
12	Magnetocaloric and Scaling Behavior of Gd at High Magnetic Fields up to 140 kOe. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 5299	1.9	1
11	Anomalous thermoelectric power and polaronic transport in the vicinity of topological phase transition of $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ . <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 126, 11-16	3.9	0
10	High thermoelectric performance by chemical potential tuning and lattice anharmonicity in $\text{GeTe}_{1-x}\text{I}_x$ compounds. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 1205-1214	6.8	0
9	Superior thermoelectric cooling performance by suppressing bipolar diffusion effect and enhancing anisotropic texture in p-/n-type $\text{Bi}_2\text{Te}_3$ based compounds. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161572	5.7	0
8	Weak antilocalization, spin-orbit interaction, and phase coherence length of a Dirac semimetal $\text{BiSb}$ . <i>Scientific Reports</i> , <b>2022</b> , 12, 2845	4.9	0
7	Enhancement of critical current density and strong vortex pinning in high entropy alloy superconductor $\text{Ta}_{1/6}\text{Nb}_{2/6}\text{Hf}$ . <i>Acta Materialia</i> , <b>2022</b> , 232, 117971	8.4	0
6	Coexistence of Kondo effect and Weyl semimetallic states in Mn-doped $\text{Mn}_x\text{VAl}_3$ compounds. <i>Materials Today Physics</i> , <b>2022</b> , 100732	8	0
5	Thermoelectric Properties in Fermi Level Tuned Topological Materials ( $\text{Bi}_{1-x}\text{Sn}_x$ ) $_2\text{Te}_3$ . <i>Electronic Materials Letters</i> , <b>2018</b> , 14, 199-206	2.9	
4	The Peierls Distortion and Quasi-One-Dimensional Crystalline Materials of Indium Selenides. <i>Springer Series in Materials Science</i> , <b>2013</b> , 95-122	0.9	
3	Magnetic and electronic irreversibility and relaxation in $\text{Eu}_{1-x}\text{La}_x\text{B}_6$ ( $x=0.15$ and $0.18$ ). <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07B717	2.5	
2	High Thermoelectric Performance due to Nanoprecipitation, Band Convergence, and Interface Potential Barrier in $\text{PbTe-PbSe-PbS}$ Quaternary Alloys and Composites <b>2019</b> , 105-136		
1	Anisotropic thermoelectric and superconducting properties of the bulk misfit-layered $(\text{SnSe})_{1.17}(\text{TaSe}_2)$ compound. <i>Current Applied Physics</i> , <b>2021</b> , 28, 1-6	2.6	



