

# Kyu Hyoung Lee

## List of Publications by Year in descending order

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112  
papers

3,938  
citations

186265  
28  
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133252  
59  
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115  
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115  
docs citations

115  
times ranked

4276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration-dependent excess Cu doping behavior and influence on thermoelectric properties in $\text{Bi}_2\text{Te}_3$ . International Journal of Energy Research, 2022, 46, 3707-3713.	4.5	7
2	Enhanced Thermoelectric Properties of $\text{Ti}_2\text{FeNiSb}_2$ Double Half-Heusler Compound by Sn Doping. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	13
3	Non-oxidized bare copper nanoparticles with surface excess electrons in air. Nature Nanotechnology, 2022, 17, 285-291.	31.5	34
4	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. Nature, 2022, 603, 631-636.	27.8	31
5	Vapor phase polymerization of Ag QD-embedded PEDOT film with enhanced thermoelectric and antibacterial properties. NPC Asia Materials, 2022, 14, .	7.9	3
6	Thermal stress-assisted annealing to improve the crystalline quality of an epitaxial YSZ buffer layer on Si. Journal of Materials Chemistry C, 2022, 10, 10027-10036.	5.5	5
7	Approach to Determine the Density of States Effective Mass with Carrier Concentration-Dependent Seebeck Coefficient. Advanced Functional Materials, 2022, 32, .	14.9	49
8	Skewness: Important parameter to affect the dielectric properties of $\text{BaTiO}_3$ . Journal of Asian Ceramic Societies, 2022, 10, 613-620.	2.3	1
9	Generation of multi-dimensional defect structures for synergetic engineering of hole and phonon transport: enhanced thermoelectric performance in Sb and Cu co-doped GeTe. Inorganic Chemistry Frontiers, 2021, 8, 2782-2787.	6.0	10
10	Silver Nanowire Network Hybridized with Silver Nanoparticle-Anchored Ruthenium Oxide Nanosheets for Foldable Transparent Conductive Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 11396-11402.	8.0	10
11	Isovalent sulfur substitution to induce a simultaneous increase in the effective mass and weighted mobility of a p-type Bi-Sb-Te alloy: an approach to enhance the thermoelectric performance over a wide temperature range. Acta Materialia, 2021, 205, 116578.	7.9	9
12	Weighted Mobility Ratio Engineering for High-Performance $\text{Bi}_2\text{Te}_3$ -Based Thermoelectric Materials via Suppression of Minority Carrier Transport. Advanced Materials, 2021, 33, e2005931.	21.0	39
13	Synthesis, morphology, characterisation, and ethanol gas sensing of hierarchical flower-like Co-doped $\text{WO}_3$ nanoplates by solvothermal route. Ceramics International, 2021, 47, 20956-20964.	4.8	12
14	High-Performance Bismuth Antimony Telluride Thermoelectric Membrane on Curved and Flexible Supports. ACS Energy Letters, 2021, 6, 2378-2385.	17.4	19
15	Facile and fast decoration of $\text{SnO}_2$ nanowires with Pd embedded $\text{SnO}_{2-x}$ nanoparticles for selective $\text{NO}_2$ gas sensing. Sensors and Actuators B: Chemical, 2021, 340, 129984.	7.8	35
16	Hidden role of intrinsic Sb-rich nano-precipitates for high-performance $\text{Bi}_2\text{SbTe}_3$ thermoelectric alloys. Acta Materialia, 2021, 215, 117058.	7.9	13
17	Van der Waals electrider: Toward intrinsic two-dimensional ferromagnetism of spin-polarized anionic electrons. Materials Today Physics, 2021, 20, 100473.	6.0	10
18	Control of Cu-doping behavior in n-type $\text{Cu}_{0.01}\text{Bi}_{1.99}\text{Te}_{2.7}\text{Se}_{0.3}$ polycrystalline bulk via fabrication technique change. Journal of Materials Research and Technology, 2021, 14, 765-771.	5.8	3

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19	Anomalous Electronic and Protonic Conductivity of 2D Titanium Oxide and Low-Temperature Power Generation Using Its Protonic Conduction. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101156.	3.7	2
20	Understanding bipolar thermal conductivity in terms of concentration ratio of minority to majority carriers. <i>Journal of Materials Research and Technology</i> , 2021, 14, 639-646.	5.8	6
21	Gas sensing behavior of p-NiO/n-ZnO composite nanofibers depending on varying p-NiO content: Selectivity and humidity-independence for oxidizing and reducing gas molecules. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130813.	7.8	15
22	Se-induced enhancement of the high-temperature thermoelectric performance of n-type $\text{Cu}_{0.008}\text{Bi}_2(\text{Te},\text{Se})_3$ alloys due to suppressed bipolar conduction. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161030.	5.5	4
23	Studies on phase formation behavior and thermoelectric transport properties of Cu-doped $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{S}_3$ system. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4781-4789.	5.8	5
24	Weighted Mobility Ratio Engineering for High-Performance Bi-Te-Based Thermoelectric Materials via Suppression of Minority Carrier Transport ( <i>Adv. Mater.</i> 47/2021). <i>Advanced Materials</i> , 2021, 33, 2170371.	21.0	16
25	Enhanced Thermoelectric Performance of Cu-incorporated $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ by Melt Spinning and Spark Plasma Sintering. <i>Journal of Electronic Materials</i> , 2020, 49, 2789-2793.	2.2	9
26	Improved polaronic transport under a strong Mott-Hubbard interaction in Cu-substituted NiO. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 853-858.	6.0	6
27	Nanoparticles in $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ : A prerequisite defect structure to scatter the mid-wavelength phonons between Rayleigh and geometry scatterings. <i>Acta Materialia</i> , 2020, 185, 271-278.	7.9	21
28	Improvement in the thermoelectric performance of highly reproducible n-type $(\text{Bi},\text{Sb})_2\text{Se}_3$ alloys by Cl-doping. <i>RSC Advances</i> , 2020, 10, 24663-24668.	3.6	4
29	Hf-Doping Effect on the Thermoelectric Transport Properties of n-Type $\text{Cu}_{0.01}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4875.	2.5	3
30	Thermoelectric Transport Properties of n-Type Sb-doped (Hf,Zr,Ti)NiSn Half-Heusler Alloys Prepared by Temperature-Regulated Melt Spinning and Spark Plasma Sintering. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4963.	2.5	13
31	Water- and acid-stable self-passivated dihafnium sulfide electride and its persistent electrocatalytic reaction. <i>Science Advances</i> , 2020, 6, eaba7416.	10.3	30
32	Important role of Cu in suppressing bipolar conduction in Bi-rich $(\text{Bi},\text{Sb})_2\text{Te}_3$ . <i>Scripta Materialia</i> , 2020, 186, 225-229.	5.2	6
33	Interface treatment using amorphous-carbon and its applications. <i>Scientific Reports</i> , 2020, 10, 4093.	3.3	3
34	Ferromagnetic quasi-atomic electrons in two-dimensional electride. <i>Nature Communications</i> , 2020, 11, 1526.	12.8	57
35	Improved carrier transport properties by I-doping in n-type $\text{Cu}_{0.008}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ thermoelectric alloys. <i>Scripta Materialia</i> , 2020, 186, 357-361.	5.2	8
36	Phase Formation Behavior and Thermoelectric Transport Properties of P-Type $\text{YbxFe}_3\text{CoSb}_{12}$ Prepared by Melt Spinning and Spark Plasma Sintering. <i>Materials</i> , 2020, 13, 87.	2.9	9

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37	Facile and accelerated production of RuO <sub>2</sub> monolayers via a dual-step intercalation process. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1445-1450.	6.0	5
38	Compositional effect in pentagonal layered PdSe <sub>2</sub> -S solid-solutions and their transport properties. <i>Scripta Materialia</i> , 2020, 182, 6-10.	5.2	4
39	Synthesis of Au/SnO <sub>2</sub> nanostructures allowing process variable control. <i>Scientific Reports</i> , 2020, 10, 346.	3.3	2
40	Band Convergence in Thermoelectric Materials: Theoretical Background and Consideration on Bi <sub>1-x</sub> Sb <sub>x</sub> Te Alloys. <i>ACS Applied Energy Materials</i> , 2020, 3, 2214-2223.	5.1	46
41	Effects of Intense Pulsed Light (IPL) Rapid Annealing and Back-Channel Passivation on Solution-Processed In-Ga-Zn-O Thin Film Transistors Array. <i>Micromachines</i> , 2020, 11, 508.	2.9	9
42	Creation of two-dimensional layered Zintl phase by dimensional manipulation of crystal structure. <i>Science Advances</i> , 2019, 5, eaax0390.	10.3	19
43	Grain Boundary Interfaces Controlled by Reduced Graphene Oxide in Nonstoichiometric SrTiO <sub>3-<math>\delta</math></sub> Thermoelectrics. <i>Scientific Reports</i> , 2019, 9, 8624.	3.3	50
44	Critical role of atomic-scale defect disorders for high-performance nanostructured half-Heusler thermoelectric alloys and their thermal stability. <i>Acta Materialia</i> , 2019, 180, 97-104.	7.9	15
45	Revisiting Polytypism in Hexagonal Ternary Sulfide ZnIn <sub>2</sub> S <sub>4</sub> for Photocatalytic Hydrogen Production Within the Z-Scheme. <i>Chemistry of Materials</i> , 2019, 31, 9148-9155.	6.7	47
46	Mg <sub>2</sub> Si-based thermoelectric compounds with enhanced fracture toughness by introduction of dual nanoinclusions. <i>Journal of Alloys and Compounds</i> , 2019, 801, 234-238.	5.5	9
47	Enhanced thermoelectric transport properties of n-type InSe due to the emergence of the flat band by Si doping. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1475-1481.	6.0	39
48	Cu-incorporation by melt-spinning in n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> alloys for low-temperature power generation. <i>Scripta Materialia</i> , 2019, 167, 120-125.	5.2	10
49	Potential-current co-adjusted pulse electrodeposition for highly (110)-oriented Bi <sub>2</sub> Te <sub>3</sub> -Se films. <i>Journal of Alloys and Compounds</i> , 2019, 787, 767-771.	5.5	13
50	Correlation between thermoelectric transport properties and crystal structure in two-dimensional CrSiTe <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 790, 93-98.	5.5	3
51	Chemically synthesized Cu <sub>2</sub> Te incorporated Bi-Sb-Te p-type thermoelectric materials for low temperature energy harvesting. <i>Scripta Materialia</i> , 2019, 165, 78-83.	5.2	19
52	Influence of Pd Doping on Electrical and Thermal Properties of n-Type Cu <sub>0.008</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Alloys. <i>Materials</i> , 2019, 12, 4080.	2.9	9
53	Clarification of electronic and thermal transport properties of Pb-, Ag-, and Cu-doped p-type Bi <sub>0.52</sub> Sb <sub>1.48</sub> Te <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 772, 593-602.	5.5	34
54	Improved trade-off between thermoelectric performance and mechanical reliability of Mg <sub>2</sub> Si by hybridization of few-layered reduced graphene oxides. <i>Scripta Materialia</i> , 2019, 162, 402-407.	5.2	15

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55	Effective role of filling fraction control in p-type $Ce_xFe_3CoSb_{12}$ skutterudite thermoelectric materials. <i>Intermetallics</i> , 2019, 105, 44-47.	3.9	12
56	Lowering the Schottky Barrier Height by Graphene/Ag Electrodes for High-Mobility $MoS_2$ Field-Effect Transistors. <i>Advanced Materials</i> , 2019, 31, e1804422.	21.0	165
57	Synergetic effect of grain size reduction on electronic and thermal transport properties by selectively-suppressed minority carrier mobility and enhanced boundary scattering in $Bi_{0.5}Sb_{1.5}Te_3$ alloys. <i>Scripta Materialia</i> , 2019, 160, 15-19.	5.2	17
58	MEMS-Based Gas Sensor Using PdO-Decorated $TiO_2$ Thin Film for Highly Sensitive and Selective $H_2$ Detection with Low Power Consumption. <i>Electronic Materials Letters</i> , 2018, 14, 305-313.	2.2	12
59	Frequency-Independent and Colossal Dielectric Permittivity of Platy Alumina/Few-Layer Graphene Multilayered Composites. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 442-447.	1.9	2
60	Effect of Dislocation Arrays at Grain Boundaries on Electronic Transport Properties of Bismuth Antimony Telluride: Unified Strategy for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800065.	19.5	40
61	Dimensional Crossover Transport Induced by Substitutional Atomic Doping in $SnSe_2$ . <i>Advanced Electronic Materials</i> , 2018, 4, 1700563.	5.1	18
62	Simple and efficient synthesis of nanograin structured single phase filled skutterudite for high thermoelectric performance. <i>Acta Materialia</i> , 2018, 142, 8-17.	7.9	44
63	Band engineering and tuning thermoelectric transport properties of p-type $Bi_{0.52}Sb_{1.48}Te_3$ by Pb doping for low-temperature power generation. <i>Scripta Materialia</i> , 2018, 145, 41-44.	5.2	49
64	Simple and effective fabrication of $Sb_2Te_3$ films embedded with $Ag_2Te$ nanoprecipitates for enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 349-356.	10.3	25
65	Sputtered PdO Decorated $TiO_2$ Sensing Layer for a Hydrogen Gas Sensor. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-8.	2.7	6
66	High thermoelectric performance of melt-spun $Cu_xBi_{0.5}Sb_{1.5}Te_3$ by synergetic effect of carrier tuning and phonon engineering. <i>Acta Materialia</i> , 2018, 158, 289-296.	7.9	37
67	Dependence of mechanical and thermoelectric properties of $Mg_2Si$ -Sn nanocomposites on interface density. <i>Journal of Alloys and Compounds</i> , 2018, 769, 53-58.	5.5	17
68	Highly fluidic liquid at homointerface generates grain-boundary dislocation arrays for high-performance bulk thermoelectrics. <i>Acta Materialia</i> , 2018, 159, 266-275.	7.9	19
69	Phase Formation and Thermoelectric Properties of Doped Higher Manganese Silicides ( $Mn_{15}Si_{26}$ ). <i>Journal of Electronic Materials</i> , 2017, 46, 3242-3248.	2.2	13
70	Structural optimization for thermoelectric properties in Cu-Bi-S pavonite compounds. <i>Journal of Alloys and Compounds</i> , 2017, 704, 282-288.	5.5	8
71	Enhanced fracture toughness of Al and Bi co-doped $Mg_2Si$ by metal nanoparticle decoration. <i>Ceramics International</i> , 2017, 43, 12979-12982.	4.8	13
72	Enhanced Thermoelectric Properties of Melt-Spun p-Type $Yb_{0.9}Fe_3CoSb_{12}$ . <i>Journal of Electronic Materials</i> , 2017, 46, 2839-2843.	2.2	9

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73	Strong Localization of Anionic Electrons at Interlayer for Electrical and Magnetic Anisotropy in Two-Dimensional $\text{Y}_{2-x}\text{C}$ Electride. <i>Journal of the American Chemical Society</i> , 2017, 139, 615-618.	13.7	71
74	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. <i>Advanced Materials</i> , 2017, 29, 1604899.	21.0	33
75	Control of electrical to thermal conductivity ratio for p-type $\text{La}_x\text{Fe}_3\text{CoSb}_{12}$ thermoelectrics by using a melt-spinning process. <i>Journal of Alloys and Compounds</i> , 2017, 729, 1209-1214.	5.5	9
76	Te Monolayer-Driven Spontaneous van der Waals Epitaxy of Two-dimensional Pnictogen Chalcogenide Film on Sapphire. <i>Nano Letters</i> , 2017, 17, 6140-6145.	9.1	19
77	Direct Observation of Inherent Atomic-Scale Defect Disorders responsible for High-Performance $\text{Ti}_{1-x}\text{Hf}_x\text{NiSn}_{1-y}\text{Sb}_y$ Half-Heusler Thermoelectric Alloys. <i>Advanced Materials</i> , 2017, 29, 1702091.		
78	An Enhanced Platform to Analyse Low-Affinity Amyloid $\beta^2$ Protein by Integration of Electrical Detection and Preconcentrator. <i>Scientific Reports</i> , 2017, 7, 14303.	3.3	17
79	Tuning the Spin-Alignment of Interstitial Electrons in Two-Dimensional $\text{Y}_{2-x}\text{C}$ Electride via Chemical Pressure. <i>Journal of the American Chemical Society</i> , 2017, 139, 17277-17280.	13.7	33
80	Phonon scattering by dislocations at grain boundaries in polycrystalline $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600103.	1.5	43
81	Up-scaled solid state reaction for synthesis of doped $\text{Mg}_2\text{Si}$ . <i>Scripta Materialia</i> , 2017, 128, 53-56.	5.2	23
82	Effect of Substitutional Pb Doping on Bipolar and Lattice Thermal Conductivity in p-Type $\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$ . <i>Materials</i> , 2017, 10, 763.	2.9	33
83	Microstructure Analysis and Thermoelectric Properties of Melt-Spun Bi-Sb-Te Compounds. <i>Crystals</i> , 2017, 7, 180.	2.2	8
84	Enhanced Thermoelectric Performance of p-Type $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ by Excess Te Addition. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7681-7684.	0.9	1
85	Design and Preparation of High-Performance Bulk Thermoelectric Materials with Defect Structures. <i>Journal of the Korean Ceramic Society</i> , 2017, 54, 75-85.	2.3	25
86	Enhancement of the thermoelectric figure of merit in n-type $\text{Cu}_{0.008}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ by using Nb doping. <i>Journal of the Korean Physical Society</i> , 2016, 68, 7-11.	0.7	1
87	Tunable thermoelectric transport properties of $\text{Cu}_{0.008}\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ via control of the spark plasma sintering conditions. <i>Journal of the Korean Physical Society</i> , 2016, 69, 811-815.	0.7	2
88	Metallic conduction induced by direct anion site doping in layered $\text{SnSe}_2$ . <i>Scientific Reports</i> , 2016, 6, 19733.	3.3	45
89	Co-doping of Al and Bi to control the transport properties for improving thermoelectric performance of $\text{Mg}_2\text{Si}$ . <i>Scripta Materialia</i> , 2016, 116, 11-15.	5.2	20
90	Thermoelectric Property of Ag-doped $\text{ZnSb}/\text{Few}$ Layer-Graphene Composites. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 720-724.	1.9	0

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91	Importance of crystal chemistry with interstitial site determining thermoelectric transport properties in pavonite homologue Cu <sub>1-x</sub> Bi <sub>x</sub> S compounds. CrystEngComm, 2016, 18, 1453-1461.	2.6	14
92	Effects of doping on the positional uniformity of the thermoelectric properties of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> polycrystalline bulks. Journal of the Korean Physical Society, 2016, 68, 17-21.	0.7	6
93	Enhanced thermoelectric properties of Au nanodot-included Bi <sub>2</sub> Te <sub>3</sub> nanotube composites. Journal of Materials Chemistry C, 2016, 4, 1313-1319.	5.5	50
94	Reduction of Lattice Thermal Conductivity in PbTe Induced by Artificially Generated Pores. Advances in Condensed Matter Physics, 2015, 2015, 1-6.	1.1	7
95	Thermoelectric Transport Properties of Cu Nanoprecipitates Embedded in Bi <sub>2</sub> Te <sub>3</sub> Nanowires. Journal of Nanomaterials, 2015, 2015, 1-5.	2.7	8
96	Optimization of Synthesis Conditions of Na <sub>0.75</sub> CoO <sub>2</sub> for High Thermoelectric Performance. Journal of Electronic Materials, 2015, 44, 1408-1412.	2.2	3
97	Enhanced Thermoelectric Performance of p-Type Bi-Sb-Te Alloys by Codoping with Ga and Ag. Journal of Electronic Materials, 2015, 44, 1531-1535.	2.2	19
98	Enhanced thermoelectric performance of Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> -expanded graphene composites by simultaneous modulation of electronic and thermal carrier transport. Nano Energy, 2015, 13, 67-76.	16.0	100
99	Synthesis of Multishell Nanoplates by Consecutive Epitaxial Growth of Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> Nanoplates and Enhanced Thermoelectric Properties. ACS Nano, 2015, 9, 6843-6853.	14.6	85
100	Fe-Doping Effect on Thermoelectric Properties of p-Type Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> . Materials, 2015, 8, 959-965.	2.9	22
101	Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. Science, 2015, 348, 109-114.	12.6	1,552
102	Boundary Engineering for the Thermoelectric Performance of Bulk Alloys Based on Bismuth Telluride. ChemSusChem, 2015, 8, 2312-2326.	6.8	68
103	Anisotropy of the thermoelectric figure of merit (ZT) in textured Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> ceramics prepared by using a spark plasma sintering process. Journal of the Korean Physical Society, 2015, 66, 794-799.	0.7	21
104	Enhanced thermoelectric performance of n-type Cu <sub>0.008</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> by band engineering. Journal of Materials Chemistry C, 2015, 3, 10604-10609.	5.5	34
105	Strong correlation between the crystal structure and the thermoelectric properties of pavonite homologue Cu <sub>x+y</sub> Bi <sub>5-2y</sub> Ch <sub>8</sub> (Ch = S or Se) compounds. Journal of Materials Chemistry C, 2015, 3, 11271-11285.	5.5	9
106	Doping effects on the thermoelectric properties of Cu-intercalated Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> . Current Applied Physics, 2015, 15, 190-193.	2.4	23
107	Thermoelectric characteristics of Sb <sub>2</sub> Te <sub>3</sub> thin films formed via surfactant-assisted electrodeposition. Journal of Materials Chemistry A, 2013, 1, 5430.	10.3	49
108	Cu <sub>1-x</sub> Bi <sub>x</sub> Se-based pavonite homologue: a promising thermoelectric material with low lattice thermal conductivity. Journal of Materials Chemistry A, 2013, 1, 9768.	10.3	13

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109	Surfactant-Free Scalable Synthesis of Bi <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> Se <sub>3</sub> Nanoflakes and Enhanced Thermoelectric Properties of Their Nanocomposites (Adv. Mater. 10/2013). <i>Advanced Materials</i> , 2013, 25, 1424-1424.	21.0	8
110	Formation of Dense Pore Structure by Te Addition in Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> : An Approach to Minimize Lattice Thermal Conductivity. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	2.7	8
111	Proton irradiation effects on thermal transport in individual single-crystalline Bi nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1438-1441.	1.8	9
112	Experimental evidence of enhancement of thermoelectric properties in tellurium nanoparticle-embedded bismuth antimony telluride. <i>Journal of Materials Research</i> , 2012, 27, 2449-2456.	2.6	24