

Joseph P Heremans

List of Publications by Year in descending order

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226
papers

19,681
citations

22099

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docs citations

229
times ranked

13536
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Thermoelectric Efficiency in PbTe by Distortion of the Electronic Density of States. <i>Science</i> , 2008, 321, 554-557.	6.0	3,442
2	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017, 29, 1605884.	11.1	1,098
3	Intrinsically Minimal Thermal Conductivity in Cubic Semiconductors. <i>Physical Review Letters</i> , 2008, 101, 035901.	2.9	778
4	Resonant levels in bulk thermoelectric semiconductors. <i>Energy and Environmental Science</i> , 2012, 5, 5510-5530.	15.6	764
5	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	672
6	Observation of the spin-Seebeck effect in a ferromagnetic semiconductor. <i>Nature Materials</i> , 2010, 9, 898-903.	13.3	665
7	When thermoelectrics reached the nanoscale. <i>Nature Nanotechnology</i> , 2013, 8, 471-473.	15.6	531
8	Thermopower enhancement in lead telluride nanostructures. <i>Physical Review B</i> , 2004, 70, .	1.1	530
9	Lone pair electrons minimize lattice thermal conductivity. <i>Energy and Environmental Science</i> , 2013, 6, 570-578.	15.6	520
10	Estimation of the isotope effect on the lattice thermal conductivity of group IV and group III-V semiconductors. <i>Physical Review B</i> , 2002, 66, .	1.1	511
11	Quantum Transport in a Multiwalled Carbon Nanotube. <i>Physical Review Letters</i> , 1996, 76, 479-482.	2.9	475
12	Spin caloritronics. <i>Energy and Environmental Science</i> , 2014, 7, 885.	15.6	361
13	Bismuth nanowire arrays: Synthesis and galvanomagnetic properties. <i>Physical Review B</i> , 2000, 61, 2921-2930.	1.1	329
14	Thermopower enhancement in PbTe with Pb precipitates. <i>Journal of Applied Physics</i> , 2005, 98, 063703.	1.1	327
15	High Performance Na-doped PbTe/PbS Thermoelectric Materials: Electronic Density of States Modification and Shape-Controlled Nanostructures. <i>Journal of the American Chemical Society</i> , 2011, 133, 16588-16597.	6.6	322
16	Electronic transport properties of single-crystal bismuth nanowire arrays. <i>Physical Review B</i> , 2000, 61, 4850-4861.	1.1	277
17	Demonstration of high mobility and quantum transport in modulation-doped $\text{In}^{2-}(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3/\text{Ga}_2\text{O}_3$ heterostructures. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	264
18	Thermoelectric Power of Bismuth Nanocomposites. <i>Physical Review Letters</i> , 2002, 88, 216801.	2.9	263

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19	Solid state magnetic field sensors and applications. Journal Physics D: Applied Physics, 1993, 26, 1149-1168.	1.3	216
20	Thermoelectric power of bismuth nanowires. Physical Review B, 1999, 59, 12579-12583.	1.1	211
21	Resonant level formed by tin in $\text{Bi}_{1-x}\text{Sn}_x$ nanowires: the enhancement of room-temperature thermoelectric power. Physical Review B, 2009, 80, .	1.1	155
22	Tetradymites as thermoelectrics and topological insulators. Nature Reviews Materials, 2017, 2, .	23.8	184
23	Transport properties of Bi nanowire arrays. Applied Physics Letters, 2000, 76, 3944-3946.	1.5	177
24	Spin-Seebeck Effect: A Phonon Driven Spin Distribution. Physical Review Letters, 2011, 106, 186601.	2.9	168
25	Giant spin Seebeck effect in a non-magnetic material. Nature, 2012, 487, 210-213.	13.7	164
26	Magnetotransport investigations of ultrafine single-crystalline bismuth nanowire arrays. Applied Physics Letters, 1998, 73, 1589-1591.	1.5	162
27	Magnetic susceptibility of carbon structures. Physical Review B, 1994, 49, 15122-15125.	1.1	157
28	Electrical resistance of a carbon nanotube bundle. Journal of Materials Research, 1994, 9, 927-932.	1.2	156
29	Magnon thermal mean free path in yttrium iron garnet. Physical Review B, 2014, 90, .	1.1	136
30	Magnetoresistance of bismuth nanowire arrays: A possible transition from one-dimensional to three-dimensional localization. Physical Review B, 1998, 58, R10091-R10095.	1.1	133
31	Scanning tunneling spectroscopy of carbon nanotubes. Journal of Materials Research, 1994, 9, 259-262.	1.2	126
32	Combining alloy scattering of phonons and resonant electronic levels to reach a high thermoelectric figure of merit in PbTeSe and PbTeS alloys. Energy and Environmental Science, 2011, 4, 4155.	15.6	122
33	Growth and characterization of epitaxial bismuth films. Physical Review B, 1988, 38, 3818-3824.	1.1	118
34	Thermal conductivity of germanium, silicon, and carbon nitrides. Applied Physics Letters, 2002, 81, 5126-5128.	1.5	118
35	Relaxation time of the order parameter in a high-temperature superconductor. Physical Review Letters, 1990, 65, 3445-3448.	2.9	114
36	Measurements of the energy band gap and valence band structure of AgSbTe . Physical Review B, 2008, 77, .	1.1	114

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37	Electronic properties of carbon nanotubes: Experimental results. Carbon, 1995, 33, 941-948.	5.4	112
38	Effect of the magnon dispersion on the longitudinal spin Seebeck effect in yttrium iron garnets. Physical Review B, 2015, 92, .	1.1	111
39	Thermal conductivity of superconductive Y-Ba-Cu-O. Physical Review B, 1987, 36, 3917-3919.	1.1	107
40	Magnon-drag thermopower and Nernst coefficient in Fe, Co, and Ni. Physical Review B, 2016, 94, .	1.1	107
41	Thermal conductivity and Raman spectra of carbon fibers. Physical Review B, 1985, 32, 6742-6747.	1.1	102
42	Epitaxial growth of aluminum nitride on Si(111) by reactive sputtering. Applied Physics Letters, 1991, 59, 2097-2099.	1.5	102
43	The anharmonicity blacksmith. Nature Physics, 2015, 11, 990-991.	6.5	100
44	Thermal conductivity and thermopower of vapor-grown graphite fibers. Physical Review B, 1985, 32, 1981-1986.	1.1	96
45	Transport properties of bismuth in quantizing magnetic fields. Physical Review B, 1976, 14, 4381-4385.	1.1	91
46	Paramagnon drag in high thermoelectric figure of merit Li-doped MnTe. Science Advances, 2019, 5, eaat9461.	4.7	90
47	The ugly duckling. Nature, 2014, 508, 327-328.	13.7	86
48	Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. Physical Review B, 2018, 97, .	1.1	83
49	Thermal and electronic properties of rare-earth Ba ₂ Cu ₃ O _x superconductors. Physical Review B, 1988, 37, 1604-1610.	1.1	82
50	Observation of metallic conductivity in liquid carbon. Physical Review Letters, 1988, 60, 452-455.	2.9	78
51	SnTe and AgSbTe ₂ Thermoelectric Alloys. Advanced Energy Materials, 2012, 2, 58-62.	10.2	78
52	Resistance, Magnetoresistance, and Thermopower of Zinc Nanowire Composites. Physical Review Letters, 2003, 91, 076804.	2.9	76
53	Valence-band structure of highly efficient $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -type thermoelectric PbTe-PbS alloys. Physical Review B, 2013, 87, .	1.1	74
54	Influence of non-parabolicity on intravalley electron-phonon scattering; the case of bismuth. Journal of Physics C: Solid State Physics, 1979, 12, 3483-3496.	1.5	73

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55	Narrow-gap semiconductor magnetic-field sensors and applications. <i>Semiconductor Science and Technology</i> , 1993, 8, S424-S430.	1.0	72
56	Spin Seebeck effect through antiferromagnetic NiO. <i>Physical Review B</i> , 2016, 94, .	1.1	72
57	Giant anomalous Nernst signal in the antiferromagnet YbMnBi ₂ . <i>Nature Materials</i> , 2022, 21, 203-209.	13.3	72
58	High-temperature oxidation behavior of thermoelectric SnSe. <i>Journal of Alloys and Compounds</i> , 2016, 669, 224-231.	2.8	69
59	Low temperature thermal, thermoelectric, and thermomagnetic transport in indium rich Pb _{1-x} Sn _x Te alloys. <i>Journal of Applied Physics</i> , 2008, 103, 053710.	1.1	61
60	Electronic and lattice contributions to the thermal conductivity of graphite intercalation compounds. <i>Physical Review B</i> , 1983, 27, 1333-1347.	1.1	60
61	Electrical conductivity of vapor-grown carbon fibers. <i>Carbon</i> , 1985, 23, 431-436.	5.4	59
62	Antimony as an amphoteric dopant in lead telluride. <i>Physical Review B</i> , 2009, 80, .	1.1	58
63	Thermal spin transport and energy conversion. <i>Materials Today Physics</i> , 2017, 1, 39-49.	2.9	58
64	Titanium forms a resonant level in the conduction band of PbTe. <i>Physical Review B</i> , 2011, 84, .	1.1	56
65	Chromium as resonant donor impurity in PbTe. <i>Physical Review B</i> , 2012, 85, .	1.1	55
66	Evidence for the role of the magnon energy relaxation length in the spin Seebeck effect. <i>Physical Review B</i> , 2018, 97, .	1.1	54
67	Evolution of structural and electronic properties of highly mismatched InSb films. <i>Journal of Applied Physics</i> , 2000, 88, 6276-6286.	1.1	50
68	Mean free path limitation of thermoelectric properties of bismuth nanowire. <i>Journal of Applied Physics</i> , 2009, 105, 113706.	1.1	47
69	The Fermi surface geometrical origin of axis-dependent conduction polarity in layered materials. <i>Nature Materials</i> , 2019, 18, 568-572.	13.3	46
70	Magnetostriction of bismuth in quantizing magnetic fields. <i>Physical Review B</i> , 1982, 26, 2552-2559.	1.1	45
71	Doping Effects on the Thermoelectric Properties of AgSbTe ₂ . <i>Journal of Electronic Materials</i> , 2009, 38, 1504-1509.	1.0	45
72	Phonon-induced diamagnetic force and its effect on the lattice thermal conductivity. <i>Nature Materials</i> , 2015, 14, 601-606.	13.3	45

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73	Anisotropic Heat Conduction in Diacetylenes. <i>Physical Review Letters</i> , 1986, 57, 869-872.	2.9	39
74	Linear geometrical magnetoresistance effect: Influence of geometry and material composition. <i>Physical Review B</i> , 1999, 59, 13927-13942.	1.1	39
75	Magnetic properties of EuTe-PbTe superlattices. <i>Physical Review B</i> , 1988, 37, 6311-6314.	1.1	37
76	Effects of buffer layers on the structural and electronic properties of InSb films. <i>Journal of Applied Physics</i> , 2005, 97, 043713.	1.1	37
77	Thermoelectric properties of bismuth nanowires in a quartz template. <i>Applied Physics Letters</i> , 2009, 94, 192104.	1.5	37
78	Transport and magnetic properties of dilute rare-earth δ -PbSe alloys. <i>Journal of Applied Physics</i> , 2007, 102, 043707.	1.1	36
79	Galvanomagnetic properties of single-crystal bismuth-antimony thin films. <i>Semiconductor Science and Technology</i> , 1990, 5, S257-S259.	1.0	35
80	Electronic structure and thermoelectric properties of p-type Ag-doped Mg ₂ Sn and Mg ₂ Sn _{1-x} Si _x (x δ =0.05, 0.1). <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	35
81	Active Peltier Coolers Based on Correlated and Magnon-Drag Metals. <i>Physical Review Applied</i> , 2019, 11, .	1.5	35
82	Transport properties and valence band feature of high-performance (GeTe) ₈₅ (AgSbTe) ₂) ₁₅ thermoelectric materials. <i>New Journal of Physics</i> , 2014, 16, 013057.	1.2	34
83	Thermal chiral anomaly in the magnetic-field-induced ideal Weyl phase of Bi δ -xSbx. <i>Nature Materials</i> , 2021, 20, 1525-1531.	13.3	34
84	Magnetic properties of Pb δ -xEuTe grown by molecular-beam epitaxy. <i>Physical Review B</i> , 1987, 35, 1969-1972.	1.1	33
85	Phonon δ electron scattering in single crystal silicon carbide. <i>Applied Physics Letters</i> , 1993, 63, 3143-3145.	1.5	33
86	Optical and electronic properties of nitrogen-implanted diamond-like carbon films. <i>Journal of Materials Research</i> , 1994, 9, 85-90.	1.2	33
87	Geometrical Magnetothermopower in Semiconductors. <i>Physical Review Letters</i> , 2001, 86, 2098-2101.	2.9	33
88	Scalable Nernst thermoelectric power using a coiled galfenol wire. <i>AIP Advances</i> , 2017, 7, .	0.6	33
89	Anisotropic thermal conductivity of superconducting lanthanum cuprate. <i>Physical Review B</i> , 1990, 41, 2520-2523.	1.1	32
90	P-type doping of elemental bismuth with indium, gallium and tin: a novel doping mechanism in solids. <i>Energy and Environmental Science</i> , 2015, 8, 2027-2040.	15.6	32

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91	Observation of spin Seebeck contribution to the transverse thermopower in Ni-Pt and MnBi-Au bulk nanocomposites. <i>Nature Communications</i> , 2016, 7, 13714.	5.8	32
92	Thermopower and thermal conductivity in the Weyl semimetal NbP. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 325701.	0.7	32
93	Thermoelectric transport properties of the n -type impurity Al in PbTe. <i>Physical Review B</i> , 2012, 85, .	1.1	30
94	Thermal properties of single-crystal La_2CuO_4 . <i>Physical Review B</i> , 1989, 39, 804-807.	1.1	29
95	Experimental study of the thermoelectric power factor enhancement in composites. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	29
96	Highly efficient transverse thermoelectric devices with Re_4Si_7 crystals. <i>Energy and Environmental Science</i> , 2021, 14, 4009-4017.	15.6	29
97	Electrical and thermal transport properties of arsenic. <i>Journal of Physics C: Solid State Physics</i> , 1977, 10, 4511-4522.	1.5	26
98	High switching ratio variable-temperature solid-state thermal switch based on thermoelectric effects. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 114-118.	2.5	26
99	Electron scattering in compensated bismuth. <i>Physical Review B</i> , 1976, 14, 5156-5160.	1.1	25
100	Thermoelectric properties of a dilute graphite donor intercalation compound. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 84, 387-389.	0.9	25
101	Temperature dependence of C-axis electrical resistivity and thermopower of graphite intercalation compounds. <i>Solid State Communications</i> , 1982, 44, 449-451.	0.9	25
102	Temperature dependence of excess carrier density and thermopower in tin-doped bismuth. Pseudo-parabolic model. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 4623-4636.	1.5	23
103	Scanning tunneling microscopy of a stage-1 CuCl_2 graphite intercalation compound. <i>Physical Review B</i> , 1990, 42, 7524-7529.	1.1	23
104	Growth of high mobility InSb by metalorganic chemical vapor deposition. <i>Journal of Electronic Materials</i> , 1994, 23, 75-79.	1.0	22
105	Two-dimensional electron gas magnetic field sensors. <i>Applied Physics Letters</i> , 1990, 57, 291-293.	1.5	21
106	Magnetic and thermal properties of iron-doped lead telluride. <i>Physical Review B</i> , 2003, 67, .	1.1	21
107	Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. <i>Joule</i> , 2021, 5, 3057-3067.	11.7	21
108	Low-temperature heat capacity of magnetic graphite intercalation compounds. <i>Physical Review B</i> , 1983, 28, 4799-4809.	1.1	20

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109	Tunneling through narrow-gap semiconductor barriers. Applied Physics Letters, 1986, 48, 644-646.	1.5	20
110	Cyclotron resonance in epitaxial Bi _{1-x} Sb _x films grown by molecular-beam epitaxy. Physical Review B, 1993, 48, 11329-11335.	1.1	20
111	Magnetic Field Sensors for Magnetic Position Sensing in Automotive Applications. Materials Research Society Symposia Proceedings, 1997, 475, 63.	0.1	20
112	The low-temperature thermoelectric properties of tin-doped bismuth. Journal of Physics F: Metal Physics, 1979, 9, 2387-2398.	1.6	19
113	Influence of substituting Sn for Sb on the thermoelectric transport properties of CoSb ₃ -based skutterudites. Journal of Applied Physics, 2014, 115, 103704.	1.1	19
114	Side optical cavity, single quantum well diode laser. Superlattices and Microstructures, 1986, 2, 459-464.	1.4	18
115	Growth and characterization of indium arsenide thin films. Journal of Electronic Materials, 1991, 20, 1109-1115.	1.0	18
116	Enhancement in the figure of merit of p-type Bi _{100-x} Sb _x alloys through multiple valence-band doping. Applied Physics Letters, 2012, 101, 053904.	1.5	18
117	Research Update: Utilizing magnetization dynamics in solid-state thermal energy conversion. APL Materials, 2016, 4, .	2.2	18
118	The Chemical Design Principles for Axis-Dependent Conduction Polarity. Journal of the American Chemical Society, 2020, 142, 2812-2822.	6.6	18
119	Ordering and stability of Pb _{1-x} EuxTe alloys. Journal of Applied Physics, 1988, 63, 1504-1508.	1.1	17
120	Raman spectra during the electropolymerization of polypyrrole. Journal of Materials Research, 1988, 3, 984-988.	1.2	17
121	Temperature stable Hall effect sensors. IEEE Sensors Journal, 2006, 6, 106-110.	2.4	17
122	On the enhancement of the figure of merit in bulk nanocomposites. Physica Status Solidi - Rapid Research Letters, 2007, 1, 256-258.	1.2	17
123	Electronic inhomogeneity in PbTe detected by PbTe NMR. Physical Review B, 2013, 88, .	1.1	17
124	Enhanced thermoelectric power factor in Yb _{1-x} Sc _x Al ₂ alloys using chemical pressure tuning of the Yb valence. Journal of Applied Physics, 2013, 114, .	1.1	17
125	Experimental study of the valence band of $\text{Bi}_{2x}\text{Sb}_{1-2x}$. Physical Review B, 2014, 90, .	1.1	17
126	High-magnetic-field thermal-conductivity measurements in graphite intercalation compounds. Physical Review B, 1982, 26, 3338-3346.	1.1	16

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127	Cyclotron-resonance determination of band offset in a PbTe quantum well. <i>Physical Review B</i> , 1987, 35, 2521-2523.	1.1	16
128	Nonlinear optical properties of molecular beam epitaxy grown Bi _{1-x} Sb _x . <i>Applied Physics Letters</i> , 1990, 57, 336-338.	1.5	16
129	Magnetotransport and magneto-optical properties of δ -doped InSb. <i>Journal of Applied Physics</i> , 1993, 74, 1793-1798.	1.1	16
130	Galvanomagnetic properties of lead-telluride quantum wells. <i>Applied Physics Letters</i> , 1986, 48, 928-930.	1.5	15
131	Growth and characterization of indium antimonide doped with lead telluride. <i>Journal of Applied Physics</i> , 1992, 71, 2328-2332.	1.1	15
132	Quantum transport, anomalous dephasing, and spin-orbit coupling in an open ballistic bismuth nanocavity. <i>Physical Review B</i> , 2003, 67, .	1.1	15
133	Far-infrared investigation of band-structure parameters and exchange interaction in Pb _{1-x} EuxTe films. <i>Physical Review B</i> , 1992, 46, 13331-13338.	1.1	14
134	Fermi arc mediated entropy transport in topological semimetals. <i>Physical Review B</i> , 2018, 97, .	1.1	14
135	Confinement effects, surface effects, and transport in Bi and Sb semiconducting and semimetallic nanowires. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 403001.	0.7	14
136	Evidence for superconductive microsegregations in tin-doped bismuth. <i>Physical Review B</i> , 1979, 19, 3476-3481.	1.1	13
137	A 2D metal-nonmetal transition in potassium-ammonia liquid monolayers in graphite. <i>Solid State Communications</i> , 1987, 64, 443-446.	0.9	13
138	Properties of tellurium-doped epitaxial bismuth films. <i>Physical Review B</i> , 1988, 38, 10280-10284.	1.1	13
139	Electrical measurements on submicronic synthetic conductors: carbon nanotubes. <i>Synthetic Metals</i> , 1995, 70, 1393-1396.	2.1	13
140	Thermoelectric transport in indium and aluminum-doped lead selenide. <i>Journal of Applied Physics</i> , 2014, 115, 053704.	1.1	13
141	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. <i>Chemistry of Materials</i> , 2021, 33, 946-951.	3.2	13
142	Size dependence of the transport properties of trigonal bismuth. <i>Physical Review B</i> , 1981, 23, 449-452.	1.1	12
143	Magnetostriction and deformation potentials in graphite. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, 3541-3546.	1.5	12
144	Transmission electron microscopy studies of bismuth films. <i>Journal of Materials Research</i> , 1990, 5, 784-788.	1.2	12

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145	Magneto-optical determination of the T-point energy gap in bismuth. <i>Physical Review B</i> , 1993, 48, 11439-11442.	1.1	12
146	Negative magnetoresistance as a result of hopping conduction in polycrystalline thin films of $\hat{1}^2$ -FeSi ₂ . <i>Physical Review B</i> , 1995, 52, 4643-4646.	1.1	12
147	Geometrical magnetothermopower in n- and p-type InSb. <i>Physical Review B</i> , 2001, 65, .	1.1	12
148	Spin-Seebeck like signal in ferromagnetic bulk metallic glass without platinum contacts. <i>Solid State Communications</i> , 2014, 198, 40-44.	0.9	12
149	Magnetoreflexion studies of tin-doped bismuth. <i>Physical Review B</i> , 1982, 25, 6155-6167.	1.1	11
150	Anomalies in the thermal conductivity and thermopower in CoCl ₂ -intercalated graphite at the magnetic phase transition. <i>Physical Review B</i> , 1983, 27, 2558-2561.	1.1	11
151	Eesley et al. reply. <i>Physical Review Letters</i> , 1991, 67, 1054-1054.	2.9	11
152	Basal-plane thermal conductivity of nanocrystalline and amorphized thin germanane. <i>Applied Physics Letters</i> , 2016, 109, 131907.	1.5	11
153	Longitudinal magnetostriction of bismuth above the last quantum limit. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, L13-L16.	1.5	10
154	Thermal conductivity of single crystal lanthanum cuprates at very low temperature. <i>Solid State Communications</i> , 1991, 77, 773-776.	0.9	10
155	Shallow impurity band in ZrNiSn. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	10
156	Magnetoresistance of graphite fibers. <i>Carbon</i> , 1986, 24, 663-669.	5.4	9
157	Magnetic-field dependence of PbTe-EuTe transistor characteristics. <i>Physical Review B</i> , 1988, 38, 3549-3552.	1.1	9
158	The influence of stoichiometry on the growth of tellurium-doped indium antimonide for magnetic field sensors. <i>Journal of Crystal Growth</i> , 1998, 195, 378-384.	0.7	9
159	The effects of neutron irradiation and low temperature annealing on the electrical properties of highly doped 4H silicon carbide. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 622, 200-206.	0.7	9
160	Off-stoichiometric silver antimony telluride: An experimental study of transport properties with intrinsic and extrinsic doping. <i>AIP Advances</i> , 2015, 5, .	0.6	9
161	YbCu ₂ Si ₂ and LaCu ₂ Si ₂ Solid Solutions with Enhanced Thermoelectric Power Factors. <i>Journal of Electronic Materials</i> , 2015, 44, 1663-1667.	1.0	9
162	Chapter 2 Tetradymites. , 2016, , 39-94.		9

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163	Optimization of the figure of merit in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Bi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 100 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ nanocomposites. <i>Physical Review Materials</i> , 2018, 2, .	0.9	9
164	Adiabatic and isothermal configurations for Re ₄ Si ₇ transverse thermoelectric power generators. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	9
165	Indium antimonide doped with manganese grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1997, 175-176, 860-867.	0.7	8
166	Continuous-feed nanocasting process for the synthesis of bismuth nanowire composites. <i>Chemical Communications</i> , 2017, 53, 12294-12297.	2.2	8
167	Magnons versus electrons in thermal spin transport through metallic interfaces. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 394002.	1.3	8
168	A capacitive instrument for the measurement of magnetostriction in pulsed fields. <i>Journal of Physics E: Scientific Instruments</i> , 1983, 16, 382-386.	0.7	7
169	Magnetostriction of Bismuth and Graphite in Fields up to 40 Tesla. <i>Journal of the Physical Society of Japan</i> , 1983, 52, 1692-1700.	0.7	7
170	Electronic magnetostriction of Bi _{1-x} Sbx alloys. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 6033-6042.	1.5	7
171	Stability of group IV-VI semiconductor alloys. <i>Physical Review B</i> , 1989, 39, 10995-11000.	1.1	7
172	Åtalon enhancement of nonlinear optical response in Bi _{1-x} Sbx. <i>Applied Physics Letters</i> , 1991, 59, 756-758.	1.5	7
173	Doping profiles for indium antimonide magnetoresistors. <i>Sensors and Actuators A: Physical</i> , 1998, 69, 39-45.	2.0	7
174	Lithium as an Interstitial Donor in Bismuth and Bismuth-antimony Alloys. <i>Journal of Electronic Materials</i> , 2012, 41, 1648-1652.	1.0	7
175	Superconductivity and microstructure of Cd _{1-x} Sn alloys. <i>Physica Status Solidi A</i> , 1980, 60, 457-466.	1.7	6
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