

Joseph P Heremans

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213
papers

16,288
citations

55
h-index

125
g-index

229
ext. papers

18,048
ext. citations

7.1
avg, IF

6.73
L-index

#	Paper	IF	Citations
213	Giant anomalous Nernst signal in the antiferromagnet YbMnBi. <i>Nature Materials</i> , 2021 ,	27	6
212	Thermal chiral anomaly in the magnetic-field-induced ideal Weyl phase of BiSb. <i>Nature Materials</i> , 2021 , 20, 1525-1531	27	8
211	Highly efficient transverse thermoelectric devices with Re ₄ Si ₇ crystals. <i>Energy and Environmental Science</i> , 2021 , 14, 4009-4017	35.4	6
210	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. <i>Chemistry of Materials</i> , 2021 , 33, 946-951	9.6	4
209	Lorentz Transmission Electron Microscopy Imaging of Magnetic Textures in MnBi. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2178-2179	0.5	
208	Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. <i>Joule</i> , 2021 , 5, 3057-3067	27.8	6
207	Identifying the Dirac point composition in Bi _{1-x} Sb _x alloys using the temperature dependence of quantum oscillations. <i>Journal of Applied Physics</i> , 2021 , 130, 225106	2.5	0
206	Shallow impurity band in ZrNiSn. <i>Journal of Applied Physics</i> , 2020 , 127, 045103	2.5	6
205	Thermoelectric composite with enhanced figure of merit via interfacial doping. <i>Functional Composite Materials</i> , 2020 , 1,	1.7	4
204	The Chemical Design Principles for Axis-Dependent Conduction Polarity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2812-2822	16.4	6
203	Combining Spin-Seebeck and Nernst Effects in Aligned MnBi/Bi Composites. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
202	Paramagnon drag in high thermoelectric figure of merit Li-doped MnTe. <i>Science Advances</i> , 2019 , 5, eaat9461	9.6	42
201	Magnon drag effect in Fe-Co alloys. <i>Journal of Applied Physics</i> , 2019 , 126, 125107	2.5	0
200	Active Peltier Coolers Based on Correlated and Magnon-Drag Metals. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
199	The Fermi surface geometrical origin of axis-dependent conduction polarity in layered materials. <i>Nature Materials</i> , 2019 , 18, 568-572	27	28
198	Co-evolution of Microstructure and Magnetic Properties in Magnetically Aligned MnBi-Bi Composites. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1710-1711	0.5	1
197	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	4.9	13

196	Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. <i>Physical Review B</i> , 2018 , 97,	3.3	47
195	Demonstration of high mobility and quantum transport in modulation-doped $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3/\text{Ga}_2\text{O}_3$ heterostructures. <i>Applied Physics Letters</i> , 2018 , 112, 173502	3.4	192
194	Evidence for the role of the magnon energy relaxation length in the spin Seebeck effect. <i>Physical Review B</i> , 2018 , 97,	3.3	42
193	Magnons versus electrons in thermal spin transport through metallic interfaces. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 394002	3	7
192	Confinement effects, surface effects, and transport in Bi and Bi Sb semiconducting and semimetallic nanowires. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 403001	1.8	12
191	Optimization of the figure of merit in $\text{Bi}_{100-x}\text{Sb}_x/\text{Al}_2\text{O}_3$ nanocomposites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
190	Fermi arc mediated entropy transport in topological semimetals. <i>Physical Review B</i> , 2018 , 97,	3.3	10
189	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1605884	3.4	742
188	Eu-Eu valence transition in double, Eu-, and Na-doped PbSe from transport, magnetic, and electronic structure studies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9606-9616	3.6	3
187	Spin thermal effects: A new member of the Hall family. <i>Nature Materials</i> , 2017 , 16, 968-969	27	1
186	Scalable Nernst thermoelectric power using a coiled galphenol wire. <i>AIP Advances</i> , 2017 , 7, 095017	1.5	20
185	Continuous-feed nanocasting process for the synthesis of bismuth nanowire composites. <i>Chemical Communications</i> , 2017 , 53, 12294-12297	5.8	6
184	Tetradymites as thermoelectrics and topological insulators. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	128
183	Thermal spin transport and energy conversion. <i>Materials Today Physics</i> , 2017 , 1, 39-49	8	40
182	Thermopower and thermal conductivity in the Weyl semimetal NbP. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 325701	1.8	24
181	Interface-Induced Phenomena in Magnetism. <i>Reviews of Modern Physics</i> , 2017 , 89,	40.5	475
180	Chapter 2 Tetradymites 2016 , 39-94		8
179	Magnon-drag thermopower and Nernst coefficient in Fe, Co, and Ni. <i>Physical Review B</i> , 2016 , 94,	3.3	71

178	Research Update: Utilizing magnetization dynamics in solid-state thermal energy conversion. <i>APL Materials</i> , 2016 , 4, 104502	5-7	15
177	High-temperature oxidation behavior of thermoelectric SnSe. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 224-231	5-7	52
176	Thermoelectric and spin-caloritronic coolers: from basics to recent developments 2016 ,		4
175	Observation of spin Seebeck contribution to the transverse thermopower in Ni-Pt and MnBi-Au bulk nanocomposites. <i>Nature Communications</i> , 2016 , 7, 13714	17.4	27
174	Basal-plane thermal conductivity of nanocrystalline and amorphized thin germanane. <i>Applied Physics Letters</i> , 2016 , 109, 131907	3-4	9
173	Introduction to cryogenic solid state cooling 2016 ,		2
172	BiSb and spin-related thermoelectric phenomena 2016 ,		5
171	Spin Seebeck effect through antiferromagnetic NiO. <i>Physical Review B</i> , 2016 , 94,	3-3	59
170	YbCu ₂ Si ₂ □□aCu ₂ Si ₂ Solid Solutions with Enhanced Thermoelectric Power Factors. <i>Journal of Electronic Materials</i> , 2015 , 44, 1663-1667	1.9	6
169	Phonon-induced diamagnetic force and its effect on the lattice thermal conductivity. <i>Nature Materials</i> , 2015 , 14, 601-6	27	39
168	Comment on "Thermal properties of magnons in yttrium iron garnet at elevated magnetic fields" <i>Physical Review B</i> , 2015 , 91,	3-3	2
167	Effect of the magnon dispersion on the longitudinal spin Seebeck effect in yttrium iron garnets. <i>Physical Review B</i> , 2015 , 92,	3-3	93
166	Anisotropic defect-induced ferromagnetism and transport in Gd-doped GaN two-dimensional electron gasses. <i>Physical Review B</i> , 2015 , 92,	3-3	2
165	Off-stoichiometric silver antimony telluride: An experimental study of transport properties with intrinsic and extrinsic doping. <i>AIP Advances</i> , 2015 , 5, 053602	1.5	8
164	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	35.4	23
163	Influence of substituting Sn for Sb on the thermoelectric transport properties of CoSb ₃ -based skutterudites. <i>Journal of Applied Physics</i> , 2014 , 115, 103704	2.5	18
162	Thermoelectricity: The ugly duckling. <i>Nature</i> , 2014 , 508, 327-8	50.4	69
161	Spin-Seebeck like signal in ferromagnetic bulk metallic glass without platinum contacts. <i>Solid State Communications</i> , 2014 , 198, 40-44	1.6	10

160	Magnon thermal mean free path in yttrium iron garnet. <i>Physical Review B</i> , 2014 , 90,	3.3	108
159	Spin caloritronics. <i>Energy and Environmental Science</i> , 2014 , 7, 885	35.4	285
158	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	2.9	32
157	Electronic structure and thermoelectric properties of p-type Ag-doped Mg ₂ Sn and Mg ₂ Sn _{1-x} Si _x (x = 0.05, 0.1). <i>Journal of Applied Physics</i> , 2014 , 116, 153706	2.5	25
156	Thermoelectric transport in indium and aluminum-doped lead selenide. <i>Journal of Applied Physics</i> , 2014 , 115, 053704	2.5	13
155	Experimental study of the valence band of Bi ₂ Se ₃ . <i>Physical Review B</i> , 2014 , 90,	3.3	11
154	Valence-band structure of highly efficient p-type thermoelectric PbTe-PbS alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	69
153	Lone pair electrons minimize lattice thermal conductivity. <i>Energy and Environmental Science</i> , 2013 , 6, 570-578	35.4	397
152	When thermoelectrics reached the nanoscale. <i>Nature Nanotechnology</i> , 2013 , 8, 471-3	28.7	450
151	Electronic inhomogeneity in n- and p-type PbTe detected by ¹²⁵ Te NMR. <i>Physical Review B</i> , 2013 , 88,	3.3	16
150	Enhanced thermoelectric power factor in Yb _{1-x} Sc _x Al ₂ alloys using chemical pressure tuning of the Yb valence. <i>Journal of Applied Physics</i> , 2013 , 114, 223712	2.5	12
149	SnTe/AgSbTe ₂ Thermoelectric Alloys. <i>Advanced Energy Materials</i> , 2012 , 2, 58-62	21.8	65
148	Chromium as resonant donor impurity in PbTe. <i>Physical Review B</i> , 2012 , 85,	3.3	49
147	Giant spin Seebeck effect in a non-magnetic material. <i>Nature</i> , 2012 , 487, 210-3	50.4	143
146	Resonant levels in bulk thermoelectric semiconductors. <i>Energy and Environmental Science</i> , 2012 , 5, 5510-5530	35.4	624
145	Lithium as an Interstitial Donor in Bismuth and Bismuth/Antimony Alloys. <i>Journal of Electronic Materials</i> , 2012 , 41, 1648-1652	1.9	7
144	Enhancement in the figure of merit of p-type Bi _{100-x} Sb _x alloys through multiple valence-band doping. <i>Applied Physics Letters</i> , 2012 , 101, 053904	3.4	16
143	Thermoelectric transport properties of the n-type impurity Al in PbTe. <i>Physical Review B</i> , 2012 , 85,	3.3	24

142	Combining alloy scattering of phonons and resonant electronic levels to reach a high thermoelectric figure of merit in PbTeSe and PbTeS alloys. <i>Energy and Environmental Science</i> , 2011 , 4, 4155	35.4	107
141	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, 16588-97	16.4	289
140	Titanium forms a resonant level in the conduction band of PbTe. <i>Physical Review B</i> , 2011 , 84,	3.3	50
139	Spin-seebeck effect: a phonon driven spin distribution. <i>Physical Review Letters</i> , 2011 , 106, 186601	7.4	148
138	Observation of the spin-Seebeck effect in a ferromagnetic semiconductor. <i>Nature Materials</i> , 2010 , 9, 898-903	27	583
137	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	1.2	5
136	Antimony as an amphoteric dopant in lead telluride. <i>Physical Review B</i> , 2009 , 80,	3.3	51
135	Thermoelectric properties of bismuth nanowires in a quartz template. <i>Applied Physics Letters</i> , 2009 , 94, 192104	3.4	34
134	Understanding Electrical Transport and the Large Power Factor Enhancements in Co-Nanostructured PbTe. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1166, 1		
133	Doping Effects on the Thermoelectric Properties of AgSbTe ₂ . <i>Journal of Electronic Materials</i> , 2009 , 38, 1504-1509	1.9	40
132	Mean free path limitation of thermoelectric properties of bismuth nanowire. <i>Journal of Applied Physics</i> , 2009 , 105, 113706	2.5	42
131	Resonant level formed by tin in Bi ₂ Te ₃ and the enhancement of room-temperature thermoelectric power. <i>Physical Review B</i> , 2009 , 80,	3.3	157
130	Experimental study of the thermoelectric power factor enhancement in composites. <i>Applied Physics Letters</i> , 2008 , 93, 122107	3.4	23
129	Measurements of the energy band gap and valence band structure of AgSbTe ₂ . <i>Physical Review B</i> , 2008 , 77,	3.3	100
128	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	2.5	57
127	High Temperature Thermoelectric Auxiliary Power Unit for Automotive Applications 2008 ,		1
126	Enhancement of thermoelectric efficiency in PbTe by distortion of the electronic density of states. <i>Science</i> , 2008 , 321, 554-7	33.3	2900
125	Intrinsically minimal thermal conductivity in cubic I-V-VI ₂ semiconductors. <i>Physical Review Letters</i> , 2008 , 101, 035901	7.4	645

124	On the enhancement of the figure of merit in bulk nanocomposites. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 256-258	2.5	17
123	High-Temperature Thermoelectric Properties of Pb _{1-x} Sn _x Te:In. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1044, 1		2
122	Transport and magnetic properties of dilute rare-earth PbSe alloys. <i>Journal of Applied Physics</i> , 2007 , 102, 043707	2.5	35
121	. <i>IEEE Sensors Journal</i> , 2006 , 6, 106-110	4	9
120	Opportunities for Thermoelectric Energy Conversion in Hybrid Vehicles 2006 , 405		2
119	Thermopower enhancement in PbTe with Pb precipitates. <i>Journal of Applied Physics</i> , 2005 , 98, 063703	2.5	295
118	Thermoelectric and Thermomagnetic Transport in PbTe with Nanoscale Structures. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 886, 1		
117	Effects of buffer layers on the structural and electronic properties of InSb films. <i>Journal of Applied Physics</i> , 2005 , 97, 043713	2.5	34
116	Thermopower enhancement in lead telluride nanostructures. <i>Physical Review B</i> , 2004 , 70,	3.3	479
115	Thermoelectric power, electrical and thermal resistance, and magnetoresistance of nanowire composites. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 793, 94		4
114	Quantum transport, anomalous dephasing, and spin-orbit coupling in an open ballistic bismuth nanocavity. <i>Physical Review B</i> , 2003 , 67,	3.3	15
113	Resistance, magnetoresistance, and thermopower of zinc nanowire composites. <i>Physical Review Letters</i> , 2003 , 91, 076804	7.4	66
112	Magnetic and thermal properties of iron-doped lead telluride. <i>Physical Review B</i> , 2003 , 67,	3.3	20
111	Thermoelectric Transport in Bismuth Nanowires: Experimental Results. <i>Fundamental Materials Research</i> , 2003 , 185-201		
110	Thermal conductivity of germanium, silicon, and carbon nitrides. <i>Applied Physics Letters</i> , 2002 , 81, 5126-5128	3.3	88
109	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,	3.3	425
108	Thermoelectric power of bismuth nanocomposites. <i>Physical Review Letters</i> , 2002 , 88, 216801	7.4	232
107	Geometrical magnetothermopower in n- and p-type InSb. <i>Physical Review B</i> , 2001 , 65,	3.3	12

106	Geometrical magnetothermopower in semiconductors. <i>Physical Review Letters</i> , 2001 , 86, 2098-101	7.4	33
105	Transport properties of Bi nanowire arrays. <i>Applied Physics Letters</i> , 2000 , 76, 3944-3946	3.4	161
104	Evolution of structural and electronic properties of highly mismatched InSb films. <i>Journal of Applied Physics</i> , 2000 , 88, 6276-6286	2.5	48
103	Electronic transport properties of single-crystal bismuth nanowire arrays. <i>Physical Review B</i> , 2000 , 61, 4850-4861	3.3	244
102	Bismuth nanowire arrays: Synthesis and galvanomagnetic properties. <i>Physical Review B</i> , 2000 , 61, 2921-2930	3.3	293
101	Linear geometrical magnetoresistance effect: Influence of geometry and material composition. <i>Physical Review B</i> , 1999 , 59, 13927-13942	3.3	34
100	Thermoelectric power of bismuth nanowires. <i>Physical Review B</i> , 1999 , 59, 12579-12583	3.3	185
99	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	1.6	9
98	Temperature dependence of relaxation times in electron focusing and antidot structures made from In _{0.53} Ga _{0.47} As/InP heterojunctions. <i>Superlattices and Microstructures</i> , 1998 , 24, 263-267	2.8	2
97	Doping profiles for indium antimonide magnetoresistors. <i>Sensors and Actuators A: Physical</i> , 1998 , 69, 39-45	3.9	7
96	Negative magnetoresistance in (InSb) _{1-x} Y _x at low temperature. <i>Journal of Applied Physics</i> , 1998 , 83, 2041-2045	2.5	3
95	Magnetoresistance of bismuth nanowire arrays: A possible transition from one-dimensional to three-dimensional localization. <i>Physical Review B</i> , 1998 , 58, R10091-R10095	3.3	125
94	Magnetotransport investigations of ultrafine single-crystalline bismuth nanowire arrays. <i>Applied Physics Letters</i> , 1998 , 73, 1589-1591	3.4	146
93	Magnetic Field Sensors for Magnetic Position Sensing in Automotive Applications. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 475, 63		16
92	Nanowire bonding with the scanning tunneling microscope. <i>Surface Science</i> , 1997 , 386, 279-289	1.8	6
91	Indium antimonide doped with manganese grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 860-867	1.6	8
90	Growth of tin-doped indium antimonide for magnetoresistors. <i>Journal of Electronic Materials</i> , 1997 , 26, 1237-1243	1.9	4
89	An investigation of the multicarrier transport properties of -doped InSb at high temperatures using a mobility spectrum technique. <i>Semiconductor Science and Technology</i> , 1996 , 11, 1857-1862	1.8	5

88	Quantum transport in a multiwalled carbon nanotube. <i>Physical Review Letters</i> , 1996 , 76, 479-482	7.4	441
87	Temperature dependence of the magnetoresistance of $\text{In}_x\text{Ga}_{1-x}\text{As}$ antidot lattices. <i>Physical Review B</i> , 1996 , 54, 2685-2690	3.3	3
86	Negative magnetoresistance as a result of hopping conduction in polycrystalline thin films of beta- FeSi_2 . <i>Physical Review B</i> , 1995 , 52, 4643-4646	3.3	10
85	Temperature dependence of electron focusing in $\text{In}_{1-x}\text{Ga}_x\text{As}/\text{InP}$ heterojunctions. <i>Physical Review B</i> , 1995 , 52, 5767-5772	3.3	5
84	Electrical measurements on submicronic synthetic conductors: carbon nanotubes. <i>Synthetic Metals</i> , 1995 , 70, 1393-1396	3.6	13
83	Electronic properties of carbon nanotubes: Experimental results. <i>Carbon</i> , 1995 , 33, 941-948	10.4	95
82	Electrical resistance of a carbon nanotube bundle. <i>Journal of Materials Research</i> , 1994 , 9, 927-932	2.5	143
81	Scanning tunneling spectroscopy of carbon nanotubes. <i>Journal of Materials Research</i> , 1994 , 9, 259-262	2.5	110
80	Optical and electronic properties of nitrogen-implanted diamond-like carbon films. <i>Journal of Materials Research</i> , 1994 , 9, 85-90	2.5	31
79	Growth of high mobility InSb by metalorganic chemical vapor deposition. <i>Journal of Electronic Materials</i> , 1994 , 23, 75-79	1.9	21
78	Magnetic susceptibility of carbon structures. <i>Physical Review B</i> , 1994 , 49, 15122-15125	3.3	142
77	Nanolithographic patterning of metal films with a scanning tunnelling microscope. <i>Physica Scripta</i> , 1994 , T55, 86-89	2.6	2
76	Solid state magnetic field sensors and applications. <i>Journal Physics D: Applied Physics</i> , 1993 , 26, 1149-1168	3.8	187
75	Narrow-gap semiconductor magnetic-field sensors and applications. <i>Semiconductor Science and Technology</i> , 1993 , 8, S424-S430	1.8	60
74	Phonon-electron scattering in single crystal silicon carbide. <i>Applied Physics Letters</i> , 1993 , 63, 3143-3145	3.4	30
73	Magneto-optical determination of the T-point energy gap in bismuth. <i>Physical Review B</i> , 1993 , 48, 11439-11442	3.3	142
72	Magnetotransport and magneto-optical properties of doped InSb . <i>Journal of Applied Physics</i> , 1993 , 74, 1793-1798	2.5	15
71	Cyclotron resonance in epitaxial $\text{Bi}_{1-x}\text{Sb}_x$ films grown by molecular-beam epitaxy. <i>Physical Review B</i> , 1993 , 48, 11329-11335	3.3	17

70	Role of a nucleation layer in suppressing interfacial pitting in. <i>Journal of Electronic Materials</i> , 1993 , 22, 383-389	1.9	2
69	Far-infrared investigation of band-structure parameters and exchange interaction in Pb _{1-x} Eu _x Te films. <i>Physical Review B</i> , 1992 , 46, 13331-13338	3.3	12
68	Growth and characterization of indium antimonide doped with lead telluride. <i>Journal of Applied Physics</i> , 1992 , 71, 2328-2332	2.5	14
67	Thermal conductivity of single crystal lanthanum cuprates at very low temperature. <i>Solid State Communications</i> , 1991 , 77, 773-776	1.6	9
66	Indium antimonide doped with lead telluride grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1991 , 111, 614-618	1.6	3
65	Growth and characterization of indium arsenide thin films. <i>Journal of Electronic Materials</i> , 1991 , 20, 1109-1115	1.5	16
64	Strong nonlinear optical enhancement in MBE-grown Bi _{1-x} Sb _x . <i>Journal of Crystal Growth</i> , 1991 , 111, 693-697	1.6	4
63	Epitaxial growth of aluminum nitride on Si(111) by reactive sputtering. <i>Applied Physics Letters</i> , 1991 , 59, 2097-2099	3.4	92
62	Enhancement of nonlinear optical response in Bi _{1-x} Sb _x . <i>Applied Physics Letters</i> , 1991 , 59, 756-758	3.4	6
61	Eesley et al. reply. <i>Physical Review Letters</i> , 1991 , 67, 1054	7.4	8
60	Electrical transport and optical properties of zirconium nitride/aluminum nitride multilayers. <i>Journal of Applied Physics</i> , 1991 , 69, 846-849	2.5	6
59	Relaxation time of the order parameter in a high-temperature superconductor. <i>Physical Review Letters</i> , 1990 , 65, 3445-3448	7.4	100
58	Scanning tunneling microscopy of a stage-1 CuCl ₂ graphite intercalation compound. <i>Physical Review B</i> , 1990 , 42, 7524-7529	3.3	20
57	Anisotropic thermal conductivity of superconducting lanthanum cuprate. <i>Physical Review B</i> , 1990 , 41, 2520-2523	3.3	30
56	Nonlinear optical properties of molecular beam epitaxy grown Bi _{1-x} Sb _x . <i>Applied Physics Letters</i> , 1990 , 57, 336-338	3.4	14
55	Transmission electron microscopy studies of bismuth films. <i>Journal of Materials Research</i> , 1990 , 5, 784-788	3.5	10
54	Galvanomagnetic properties of single-crystal bismuth-antimony thin films. <i>Semiconductor Science and Technology</i> , 1990 , 5, S257-S259	1.8	31
53	Two-dimensional electron gas magnetic field sensors. <i>Applied Physics Letters</i> , 1990 , 57, 291-293	3.4	17

52	Stability of group IV-VI semiconductor alloys. <i>Physical Review B</i> , 1989 , 39, 10995-11000	3.3	7
51	Thermal properties of single-crystal La ₂ CuO ₄ -Δ. <i>Physical Review B</i> , 1989 , 39, 804-807	3.3	26
50	Anisotropic Thermal Conductivity of Superconducting Lanthanum Cuprate. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 1101		
49	Growth and characterization of epitaxial bismuth films. <i>Physical Review B</i> , 1988 , 38, 3818-3824	3.3	109
48	Observation of metallic conductivity in liquid carbon. <i>Physical Review Letters</i> , 1988 , 60, 452-455	7.4	74
47	Thermal and electronic properties of rare-earth Ba ₂ Cu ₃ O _x superconductors. <i>Physical Review B</i> , 1988 , 37, 1604-1610	3.3	76
46	Magnetic properties of EuTe-PbTe superlattices. <i>Physical Review B</i> , 1988 , 37, 6311-6314	3.3	37
45	Properties of tellurium-doped epitaxial bismuth films. <i>Physical Review B</i> , 1988 , 38, 10280-10284	3.3	12
44	Ordering and stability of Pb _{1-x} Eu _x Te alloys. <i>Journal of Applied Physics</i> , 1988 , 63, 1504-1508	2.5	16
43	Thermal conductivity of single-crystal barium fluoride. <i>Journal of Applied Physics</i> , 1988 , 63, 573-574	2.5	5
42	Magnetic-field dependence of PbTe-EuTe transistor characteristics. <i>Physical Review B</i> , 1988 , 38, 3549-3552	3.3	9
41	Raman spectra during the electropolymerization of polypyrrole. <i>Journal of Materials Research</i> , 1988 , 3, 984-988	2.5	15
40	Magnetic properties of Pb _{1-x} Eu _x Te grown by molecular-beam epitaxy. <i>Physical Review B</i> , 1987 , 35, 1969-1972	3.3	32
39	Thermal conductivity of superconductive Y-Ba-Cu-O. <i>Physical Review B</i> , 1987 , 36, 3917-3919	3.3	99
38	Cyclotron-resonance determination of band offset in a PbTe quantum well. <i>Physical Review B</i> , 1987 , 35, 2521-2523	3.3	16
37	Morelli and Heremans respond. <i>Physical Review Letters</i> , 1987 , 58, 1587	7.4	1
36	Two-dimensional diffusion-limited kinetics in a ternary graphite intercalation compound. <i>Solid State Communications</i> , 1987 , 61, 469-473	1.6	6
35	A 2D metal-nonmetal transition in potassium-ammonia liquid monolayers in graphite. <i>Solid State Communications</i> , 1987 , 64, 443-446	1.6	13

34	Magnetoresistance of graphite fibers. <i>Carbon</i> , 1986 , 24, 663-669	10.4	9
33	Side optical cavity, single quantum well diode laser. <i>Superlattices and Microstructures</i> , 1986 , 2, 459-464	2.8	16
32	Anisotropic heat conduction in diacetylenes. <i>Physical Review Letters</i> , 1986 , 57, 869-872	7.4	35
31	Tunneling through narrow-gap semiconductor barriers. <i>Applied Physics Letters</i> , 1986 , 48, 644-646	3.4	20
30	Galvanomagnetic properties of lead-telluride quantum wells. <i>Applied Physics Letters</i> , 1986 , 48, 928-930	3.4	14
29	Electrical conductivity of vapor-grown carbon fibers. <i>Carbon</i> , 1985 , 23, 431-436	10.4	50
28	Thermal conductivity of tin-doped bismuth between 50 mK and 7K. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 3001-3010		3
27	Electronic magnetostriction of Bi _{1-x} Sb _x alloys. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 6033-6042		6
26	Thermal conductivity and thermopower of vapor-grown graphite fibers. <i>Physical Review B</i> , 1985 , 32, 1981-1982	3.3	98
25	The influence of heat-treatment of graphite fibers on their intercalation with sulfuric acid. <i>Synthetic Metals</i> , 1985 , 12, 511-516	3.6	2
24	Thermal conductivity and Raman spectra of carbon fibers. <i>Physical Review B</i> , 1985 , 32, 6742-6747	3.3	98
23	Galvanomagnetic properties at 4.2K of bismuth irradiated with fast electrons. <i>Journal of Physics F: Metal Physics</i> , 1984 , 14, 399-408		6
22	Electronic and lattice contributions to the thermal conductivity of graphite intercalation compounds. <i>Physical Review B</i> , 1983 , 27, 1333-1347	3.3	55
21	A capacitive instrument for the measurement of magnetostriction in pulsed fields. <i>Journal of Physics E: Scientific Instruments</i> , 1983 , 16, 382-386		5
20	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		22
19	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	3.3	11
18	Low-temperature heat capacity of magnetic graphite intercalation compounds. <i>Physical Review B</i> , 1983 , 28, 4799-4809	3.3	20
17	Magnetostriction of Bismuth and Graphite in Fields up to 40 Tesla. <i>Journal of the Physical Society of Japan</i> , 1983 , 52, 1692-1700	1.5	7

16	Magnetostriction of bismuth in quantizing magnetic fields. <i>Physical Review B</i> , 1982 , 26, 2552-2559	3.3	38
15	High-magnetic-field thermal-conductivity measurements in graphite intercalation compounds. <i>Physical Review B</i> , 1982 , 26, 3338-3346	3.3	15
14	Magnetoreflexion studies of tin-doped bismuth. <i>Physical Review B</i> , 1982 , 25, 6155-6167	3.3	10
13	Temperature dependence of C-axis electrical resistivity and thermopower of graphite intercalation compounds. <i>Solid State Communications</i> , 1982 , 44, 449-451	1.6	24
12	A simple relation between transverse magnetoresistance and Hall effect in bismuth lightly doped with tin. <i>Solid State Communications</i> , 1982 , 42, 705-708	1.6	3
11	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	2.3	25
10	Size dependence of the transport properties of trigonal bismuth. <i>Physical Review B</i> , 1981 , 23, 449-452	3.3	12
9	Magnetostriction and deformation potentials in graphite. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 3541-3546		12
8	Longitudinal magnetostriction of bismuth above the last quantum limit. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, L13-L16		10
7	Superconductivity and microstructure of Cd ₂ Sn alloys. <i>Physica Status Solidi A</i> , 1980 , 60, 457-466		5
6	Influence of non-parabolicity on intravalley electron-phonon scattering; the case of bismuth. <i>Journal of Physics C: Solid State Physics</i> , 1979 , 12, 3483-3496		66
5	The low-temperature thermoelectric properties of tin-doped bismuth. <i>Journal of Physics F: Metal Physics</i> , 1979 , 9, 2387-2398		19
4	Evidence for superconductive microsegregations in tin-doped bismuth. <i>Physical Review B</i> , 1979 , 19, 3476-3481	3.3	12
3	Electrical and thermal transport properties of arsenic. <i>Journal of Physics C: Solid State Physics</i> , 1977 , 10, 4511-4522		20
2	Transport properties of bismuth in quantizing magnetic fields. <i>Physical Review B</i> , 1976 , 14, 4381-4385	3.3	78
1	Electron scattering in compensated bismuth. <i>Physical Review B</i> , 1976 , 14, 5156-5160	3.3	22