Ali Shakouri

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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.

186
papers

8,384
citations

41
B9
g-index

202
9,218
ext. papers

5.3
avg, IF

L-index

#	Paper	IF	Citations
186	Nanostructured thermoelectrics: big efficiency gains from small features. <i>Advanced Materials</i> , 2010 , 22, 3970-80	24	1085
185	Thermal conductivity reduction and thermoelectric figure of merit increase by embedding nanoparticles in crystalline semiconductors. <i>Physical Review Letters</i> , 2006 , 96, 045901	7.4	680
184	Recent Developments in Semiconductor Thermoelectric Physics and Materials. <i>Annual Review of Materials Research</i> , 2011 , 41, 399-431	12.8	529
183	Flexible thermoelectric materials and device optimization for wearable energy harvesting. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10362-10374	7.1	412
182	Improved thermoelectric power factor in metal-based superlattices. <i>Physical Review Letters</i> , 2004 , 92, 106103	7.4	370
181	Steep-slope hysteresis-free negative capacitance MoS transistors. <i>Nature Nanotechnology</i> , 2018 , 13, 24-28	28.7	282
180	Heterostructure integrated thermionic coolers. <i>Applied Physics Letters</i> , 1997 , 71, 1234-1236	3.4	280
179	Thermal conductivity of Si/SiGe and SiGe/SiGe superlattices. <i>Applied Physics Letters</i> , 2002 , 80, 1737-173	393.4	276
178	SiGeC/Si superlattice microcoolers. <i>Applied Physics Letters</i> , 2001 , 78, 1580-1582	3.4	196
177	Cost-efficiency trade-off and the design of thermoelectric power generators. <i>Environmental Science & Environmental & Environm</i>	10.3	145
176	Profiling the thermoelectric power of semiconductor junctions with nanometer resolution. <i>Science</i> , 2004 , 303, 816-8	33.3	143
175	Electron energy filtering by a nonplanar potential to enhance the thermoelectric power factor in bulk materials. <i>Physical Review B</i> , 2013 , 87,	3.3	130
174	EGa2O3 on insulator field-effect transistors with drain currents exceeding 1.5 A/mm and their self-heating effect. <i>Applied Physics Letters</i> , 2017 , 111, 092102	3.4	128
173	Electronic and thermoelectric transport in semiconductor and metallic superlattices. <i>Journal of Applied Physics</i> , 2004 , 95, 1233-1245	2.5	123
172	Effect of nanoparticle scattering on thermoelectric power factor. <i>Applied Physics Letters</i> , 2009 , 94, 202	:16,54	117
171	Optimization of power and efficiency of thermoelectric devices with asymmetric thermal contacts. Journal of Applied Physics, 2012 , 111, 024509	2.5	111
170	Right sizes of nano- and microstructures for high-performance and rigid bulk thermoelectrics. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10949-54	11.5	108

(2007-2015)

169	Enhanced thermoelectric properties in bulk nanowire heterostructure-based nanocomposites through minority carrier blocking. <i>Nano Letters</i> , 2015 , 15, 1349-55	11.5	106
168	Thermoreflectance based thermal microscope. <i>Review of Scientific Instruments</i> , 2005 , 76, 024903	1.7	89
167	Passive microring-resonator-coupled lasers. <i>Applied Physics Letters</i> , 2001 , 79, 3561-3563	3.4	84
166	Thermionic emission cooling in single barrier heterostructures. <i>Applied Physics Letters</i> , 1999 , 74, 88-89	3.4	84
165	Enhancing the thermoelectric figure of merit through the reduction of bipolar thermal conductivity with heterostructure barriers. <i>Applied Physics Letters</i> , 2014 , 105, 052106	3.4	83
164	Electron transport modeling and energy filtering for efficient thermoelectric Mg2Si1\square\squaresnx solid solutions. <i>Physical Review B</i> , 2014 , 89,	3.3	82
163	Cross-plane lattice and electronic thermal conductivities of ErAs:InGaAsIhGaAlAs superlattices. <i>Applied Physics Letters</i> , 2006 , 88, 242107	3.4	74
162	Thermoelectric properties of epitaxial ScN films deposited by reactive magnetron sputtering onto MgO(001) substrates. <i>Journal of Applied Physics</i> , 2013 , 113, 153704	2.5	71
161	Design and characterization of thin film microcoolers. <i>Journal of Applied Physics</i> , 2001 , 89, 4059-4064	2.5	70
160	Minority carrier blocking to enhance the thermoelectric figure of merit in narrow-band-gap semiconductors. <i>Physical Review B</i> , 2016 , 93,	3.3	68
159	Composition modulation of Ag2Te nanowires for tunable electrical and thermal properties. <i>Nano Letters</i> , 2014 , 14, 5398-404	11.5	68
158	Enhanced Thermionic Emission Cooling in High Barrier Superlattice Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 545, 449		62
157	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015 , 19, 127-165	3.7	60
156	Thermoelectric Transport in a ZrN/ScN Superlattice. <i>Journal of Electronic Materials</i> , 2009 , 38, 960-963	1.9	58
155	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. <i>Physical Review B</i> , 2016 , 93,	3.3	55
154	Optimization of thermoelectric topping combined steam turbine cycles for energy economy. <i>Applied Energy</i> , 2013 , 109, 1-9	10.7	52
153	Thermodynamic Studies of EGaO Nanomembrane Field-Effect Transistors on a Sapphire Substrate. <i>ACS Omega</i> , 2017 , 2, 7723-7729	3.9	52
152	Cross-plane Seebeck coefficient of ErAs:InGaAsInGaAlAs superlattices. <i>Journal of Applied Physics</i> , 2007 , 101, 034502	2.5	52

151	Hot carrier filtering in solution processed heterostructures: a paradigm for improving thermoelectric efficiency. <i>Advanced Materials</i> , 2014 , 26, 2755-61, 2618	24	51
150	Synthesis and characterization of Mg2Si/Si nanocomposites prepared from MgH2 and silicon, and their thermoelectric properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24805		48
149	Low-temperature thermoelectric power factor enhancement by controlling nanoparticle size distribution. <i>Nano Letters</i> , 2011 , 11, 225-30	11.5	48
148	Analytical modeling of silicon thermoelectric microcooler. <i>Journal of Applied Physics</i> , 2006 , 100, 014501	2.5	47
147	Rocksalt nitride metal/semiconductor superlattices: A new class of artificially structured materials. <i>Applied Physics Reviews</i> , 2018 , 5, 021101	17.3	42
146	Compensation of native donor doping in ScN: Carrier concentration control and p-type ScN. <i>Applied Physics Letters</i> , 2017 , 110, 252104	3.4	42
145	Structure and thermoelectric properties of spark plasma sintered ultrathin PbTe nanowires. <i>Nano Letters</i> , 2014 , 14, 3466-73	11.5	41
144	Ultrafast chemical imaging by widefield photothermal sensing of infrared absorption. <i>Science Advances</i> , 2019 , 5, eaav7127	14.3	40
143	Nanoscale solid-state cooling: a review. Reports on Progress in Physics, 2016, 79, 095901	14.4	40
142	. IEEE Transactions on Electron Devices, 2015 , 62, 3516-3523	2.9	39
141	Thermoelectric transport perpendicular to thin-film heterostructures calculated using the Monte Carlo technique. <i>Physical Review B</i> , 2006 , 74,	3.3	39
140	Nonlinear Peltier effect in semiconductors. <i>Applied Physics Letters</i> , 2007 , 91, 122104	3.4	38
139	Full-field thermal imaging of quasiballistic crosstalk reduction in nanoscale devices. <i>Nature Communications</i> , 2018 , 9, 255	17.4	37
138	Thermionic power generation at high temperatures using SiGeBi superlattices. <i>Journal of Applied Physics</i> , 2007 , 101, 053719	2.5	36
137	Large enhancement in the thermoelectric properties of Pb0.98Na0.02Te by optimizing the synthesis conditions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11269	13	35
136	ErAs:InGaAsIhGaAlAs superlattice thin-film power generator array. <i>Applied Physics Letters</i> , 2006 , 88, 113502	3.4	35
135	Thermoelectric power generator module of 16¶6 Bi2Te3 and 0.6% ErAs:(InGaAs)1⊠(InAlAs)x segmented elements. <i>Applied Physics Letters</i> , 2009 , 95, 083503	3.4	33
134	High-power-density spot cooling using bulk thermoelectrics. <i>Applied Physics Letters</i> , 2004 , 85, 2977-297	93.4	33

133	Phonon wave effects in the thermal transport of epitaxial TiN/(Al,Sc)N metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2017 , 121, 015109	2.5	31	
132	Thermoelectric figure of merit of (In0.53Ga0.47As)0.8(In0.52Al0.48As)0.2 III-V semiconductor alloys. <i>Physical Review B</i> , 2010 , 81,	3.3	31	
131	Cross-plane Seebeck coefficient in superlattice structures in the miniband conduction regime. <i>Physical Review B</i> , 2006 , 74,	3.3	31	
130	Thermal Transport Driven by Extraneous Nanoparticles and Phase Segregation in Nanostructured Mg2(Si,Sn) and Estimation of Optimum Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7003-12	9.5	30	
129	Enhanced solid-state thermionic emission in nonplanar heterostructures. <i>Applied Physics Letters</i> , 2006 , 88, 012102	3.4	30	
128	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. <i>Energy Conversion and Management</i> , 2014 , 84, 244-252	10.6	29	
127	MODELING AND OPTIMIZATION OF SINGLE-ELEMENT BULK SIGE THIN-FILM COOLERS. <i>Microscale Thermophysical Engineering</i> , 2005 , 9, 99-118		29	
126	Effect of deposition pressure on the microstructure and thermoelectric properties of epitaxial ScN(001) thin films sputtered onto MgO(001) substrates. <i>Journal of Materials Research</i> , 2015 , 30, 626-6	53 ² 7. ⁵	28	
125	Synthesis and investigation of thermoelectric and electrochemical properties of porous Ca9Co12O28 nanowires. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11901	13	28	
124	Effect of Nanoparticles on Electron and Thermoelectric Transport. <i>Journal of Electronic Materials</i> , 2009 , 38, 954-959	1.9	28	
123	Nanoengineered Materials for Thermoelectric Energy Conversion. <i>Topics in Applied Physics</i> , 2009 , 225-2	2 99 .5	28	
122	Design of Bulk Thermoelectric Modules for Integrated Circuit Thermal Management. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2006 , 29, 750-757		27	
121	Temperature-dependent thermal and thermoelectric properties of n-type and p-type Sc1⊠MgxN. <i>Physical Review B</i> , 2018 , 97,	3.3	26	
120	. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014 , 22, 2366-2379	2.6	26	
119	Resonant carrier scattering by core-shell nanoparticles for thermoelectric power factor enhancement. <i>Applied Physics Letters</i> , 2012 , 100, 012102	3.4	26	
118	ErAs:(InGaAs)1⊠(InAlAs)x alloy power generator modules. <i>Applied Physics Letters</i> , 2007 , 91, 263510	3.4	26	
117	Thermoelectric heat recovery from glass melt processes. <i>Energy</i> , 2017 , 118, 1035-1043	7.9	24	
116	High Performance \${beta}\$ -Ga2O3 Nano-Membrane Field Effect Transistors on a High Thermal Conductivity Diamond Substrate. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 914-918	2.3	24	

115	Thermoelectric power factor enhancement by ionized nanoparticle scattering. <i>Applied Physics Letters</i> , 2011 , 99, 072118	3.4	24
114	Fused vertical couplers. <i>Applied Physics Letters</i> , 1998 , 72, 2637-2638	3.4	24
113	Direct measurement of thin-film thermoelectric figure of merit. <i>Applied Physics Letters</i> , 2009 , 94, 21250	083.4	23
112	Thermal measurements of active semiconductor micro-structures acquired through the substrate using near IR thermoreflectance. <i>Microelectronics Journal</i> , 2004 , 35, 791-796	1.8	23
111	Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 901-915	10.7	21
110	Fractal LNy Heat Transport in Nanoparticle Embedded Semiconductor Alloys. <i>Nano Letters</i> , 2015 , 15, 4269-73	11.5	20
109	Three-dimensional modeling of nanoscale Seebeck measurements by scanning thermoelectric microscopy. <i>Applied Physics Letters</i> , 2005 , 87, 053115	3.4	20
108	Monolithic integration of thin-film coolers with optoelectronic devices. <i>Optical Engineering</i> , 2000 , 39, 2847	1.1	20
107	Thermoelectric properties of epitaxial TbAs:InGaAs nanocomposites. <i>Journal of Applied Physics</i> , 2012 , 111, 094312	2.5	19
106	Thermoreflectance CCD Imaging of Self-Heating in Power MOSFET Arrays. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3047-3053	2.9	18
105	NONEQUILIBRIUM ELECTRONS AND PHONONS IN THIN FILM THERMIONIC COOLERS. <i>Microscale Thermophysical Engineering</i> , 2004 , 8, 91-100		18
104	Quasi-ballistic thermal transport in Al0.1Ga0.9N thin film semiconductors. <i>Applied Physics Letters</i> , 2016 , 109, 243107	3.4	18
103	Thermoelectric topping cycles with scalable design and temperature dependent material properties. <i>Scripta Materialia</i> , 2016 , 111, 58-63	5.6	17
102	Scalable Cost/Performance Analysis for Thermoelectric Waste Heat Recovery Systems. <i>Journal of Electronic Materials</i> , 2012 , 41, 1845-1850	1.9	16
101	Growth and characterization of TbAs:GaAs nanocomposites. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 03C114	1.3	16
100	Monte Carlo simulation of electron transport in degenerate and inhomogeneous semiconductors. <i>Applied Physics Letters</i> , 2007 , 90, 092111	3.4	16
99	Computational simulations as virtual laboratories for online engineering education: A case study in the field of thermoelectricity. <i>Computer Applications in Engineering Education</i> , 2016 , 24, 428-442	1.6	16
98	Power Generator Modules of Segmented Bi2Te3 and ErAs:(InGaAs)1☑ (InAlAs) x. <i>Journal of Electronic Materials</i> , 2008 , 37, 1786-1792	1.9	15

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97	Ring Resonator Lasers using Passive Waveguides and Integrated Semiconductor Optical Amplifiers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 1249-1256	3.8	15	
96	HgCdTe superlattices for solid-state cryogenic refrigeration. <i>Applied Physics Letters</i> , 2006 , 88, 132110	3.4	14	
95	Thermoelectric Micro-Cooler for Hot-Spot Thermal Management 2005 , 2161		14	
94	Performance and mass optimization of thermoelectric microcoolers. <i>International Journal of Thermal Sciences</i> , 2015 , 97, 143-151	4.1	13	
93	Cross-plane thermoelectric transport in p-type La0.67Sr0.33MnO3/LaMnO3 oxide metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2013 , 113, 193702	2.5	13	
92	Cost-effective waste heat recovery using thermoelectric systems. <i>Journal of Materials Research</i> , 2012 , 27, 1211-1217	2.5	13	
91	Picosecond Transient Thermal Imaging Using a CCD Based Thermoreflectance System 2010 ,		13	
90	Method of images for the fast calculation of temperature distributions in packaged VLSI chips 2007 ,		13	
89	Fast transient thermoreflectance CCD imaging of pulsed self heating in AlGaN/GaN power transistors 2013 ,		12	
88	High exergetic modified Brayton cycle with thermoelectric energy conversion. <i>Applied Thermal Engineering</i> , 2017 , 114, 1366-1371	5.8	10	
87	2012,		10	
86	Cooling power optimization for hybrid solid-state and liquid cooling in integrated circuit chips with hotspots 2012 ,		10	
85	Cross-plane electronic and thermal transport properties of p-type La0.67Sr0.33MnO3/LaMnO3 perovskite oxide metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 063714	2.5	10	
84	Bulk-Like Laminated Nitride Metal/Semiconductor Superlattices for Thermoelectric Devices. Journal of Microelectromechanical Systems, 2014 , 23, 672-680	2.5	9	
84		2.5	9	
	Journal of Microelectromechanical Systems, 2014, 23, 672-680 Seebeck Enhancement Through Miniband Conduction in IIII Semiconductor Superlattices at Low			
83	Seebeck Enhancement Through Miniband Conduction in IIIIV Semiconductor Superlattices at Low Temperatures. <i>Journal of Electronic Materials</i> , 2012 , 41, 1498-1503 Reduced thermal conductivity in Er-doped epitaxial InxGa1IISb alloys. <i>Applied Physics Letters</i> , 2013	1.9	9	

79	Evidence of Universal Temperature Scaling in Self-Heated Percolating Networks. <i>Nano Letters</i> , 2016 , 16, 3130-6	11.5	9
78	High-Temperature Thermoelectric Characterization of III V Semiconductor Thin Films by Oxide Bonding. <i>Journal of Electronic Materials</i> , 2010 , 39, 1125-1132	1.9	8
77	Cooling Power Density of SiGe/Si Superlattice Micro Refrigerators. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 793, 124		7
76	Transient Self-Heating at Nanowire Junctions in Silver Nanowire Network Conductors. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 1171-1180	2.6	7
75	Experimental Characterization of Hybrid Solid-State and Fluidic Cooling for Thermal Management of Localized Hotspots. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 57-64	1.7	6
74	Transient Thermal Response of Hotspots in GrapheneBilver Nanowire Hybrid Transparent Conducting Electrodes. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 276-284	2.6	6
73	Enabling power density and thermal-aware floorplanning 2012,		6
72	Thermal imaging of encapsulated LEDs 2011 ,		6
71	Nanosecond transient thermoreflectance imaging of snapback in semiconductor controlled rectifiers 2011 ,		6
70	Experimental Characterization and Modeling of InP-based Microcoolers. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 793, 87		6
69	Transient Harman Measurement of the Cross-plane ZT of InGaAs/InGaAlAs Superlattices with Embedded ErAs Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 886, 1		6
68	Valleytronics of III№ solid solutions for thermoelectric application. <i>RSC Advances</i> , 2017 , 7, 7310-7314	3.7	5
67	Enhanced thermoelectric performance of P-type BixSb2NTe3 nanowires with pulsed laser assisted electrochemical deposition. <i>Extreme Mechanics Letters</i> , 2016 , 9, 386-396	3.9	5
66	Calculation of Nonlinear Thermoelectric Coefficients of InAs1 Sb x Using Monte Carlo Method. <i>Journal of Electronic Materials</i> , 2012 , 41, 1370-1375	1.9	5
65	MOCVD Growth of Erbium Monoantimonide Thin Film and Nanocomposites for Thermoelectrics. <i>Journal of Electronic Materials</i> , 2012 , 41, 971-976	1.9	5
64	Application of thermoreflectance imaging to identify defects in photovoltaic solar cells 2010,		5
63	Extraction of Power Dissipation Profile in an IC Chip from Temperature Map. <i>IEEE Semiconductor Thermal Measurement and Management Symposium</i> , 2007 ,		5
62	Influence of Doping Concentration and Ambient Temperature on the Cross-Plane Seebeck Coefficient of InGaAs/InAlAs superlattices. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 793–140		5

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61	BEOL Compatible Indium-Tin-Oxide Transistors: Switching of Ultrahigh-Density 2-D Electron Gas Over 0.8 © 1014/cm2 at Oxide/Oxide Interface by the Change of Ferroelectric Polarization. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3195-3199	2.9	5
60	Analytical Optimization of the Design of Film-Laminated Thermoelectric Power Generators. <i>Journal of Electronic Materials</i> , 2019 , 48, 7312-7319	1.9	4
59	Ultrafast submicron thermal characterization of integrated circuits 2012,		4
58	Thermal challenges on solar concentrated thermoelectric CHP systems 2012 ,		4
57	Thermoelectric Transport in InGaAs with High Concentration of Rare-Earth TbAs Embedded Nanoparticles. <i>Journal of Electronic Materials</i> , 2012 , 41, 1820-1825	1.9	4
56	Cost performance trade-off in thermoelectric modules with low fractional area coverage. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1396,		4
55	Temperature Profile Inside Microscale Thermoelectric Module Acquired Using Near-Infrared Thermoreflectance. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2009 , 32, 447-452		4
54	High-resolution noncontact thermal characterization of semiconductor devices 2001,		4
53	Battery-Less Wireless Chipless Sensor Tag for Subsoil Moisture Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 6071-6082	4	4
52	Electroreflectance imaging of gold-H3PO4 supercapacitors. Part II: microsupercapacitor ageing characterization. <i>Analyst, The</i> , 2016 , 141, 1462-71	5	3
51	Electron Transport Engineering by Nanostructures for Efficient Thermoelectrics. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 41-92	0.3	3
50	Short Time Transient Behavior of SiGe-based Microrefrigerators. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1166, 6		3
49	Frequency-Dependent Thermal Conductivity in Time Domain Thermoreflectance Analysis of Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1347, 1		3
48	Enhanced Hot Spot Cooling Using Bonded Superlattice Microcoolers With a Trench Structure. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2008 , 31, 552-558		3
47	Cooling Enhancement Using Inhomogeneous Thermoelectric Materials 2006,		3
46	3D Electrothermal Simulation of Heterostructure Thin Film Micro-Coolers 2003 , 39		3
45	Integrated cooling for optoelectronic devices 2000,		3
44	Experimental Investigation of Thin Film InGaAsP Coolers. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 626, 1441		3

43	High Cooling Power Density of SiGe/Si Superlattice Microcoolers. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 691, 1		3
42	Enhancement of Thermal Transfer From @Ga D [Nano-Membrane Field-Effect Transistors to High Thermal Conductivity Substrate by Inserting an Interlayer. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-5	2.9	3
41	High Thermoelectric Power Factor and ZT in TbAs:InGaAs Epitaxial Nanocomposite Material. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900015	6.4	3
40	A biodegradable chipless sensor for wireless subsoil health monitoring Scientific Reports, 2022 , 12, 801	1 4.9	3
39	Thermal optimization of embedded thermoelectric generators in refractory furnaces 2016,		2
38	Numerical Model of Thermoelectric Topping Cycle of Coal-Fired Power Plant. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	2
37	Controlling n-Type Carrier Density from Er Doping of InGaAs with MBE Growth Temperature. Journal of Electronic Materials, 2012 , 41, 948-953	1.9	2
36	2010,		2
35	Experimental validation of the power blurring method 2010 ,		2
34	Thermal characterization of high power transistor arrays 2009,		2
33	Enhanced Cooling in Doped Semiconductors Due to Nonlinear Peltier Effect. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1044, 1		2
32	Characterization of Thin-film Thermoelectric Micro-modules using Transient Harman ZT Measurement and Near-IR Thermoreflectance. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1044, 1		2
31	High-power limitation of passive ring-resonator-coupled lasers in the presence of material nonlinearity. <i>Journal of Applied Physics</i> , 2004 , 95, 3816-3818	2.5	2
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29	Characteristic equations for different ARROW structures. <i>Optical and Quantum Electronics</i> , 1999 , 31, 1267-1276	2.4	2
28	Far-field thermal imaging below diffraction limit. Optics Express, 2020, 28, 7036-7050	3.3	2
27	Thermal imaging of nanometer features 2016 ,		2
26	Fuel-burning thermoelectric generators for the future of electric vehicles. <i>Energy Conversion and Management</i> , 2021 , 227, 113523	10.6	2

25	Analytic Optimization of Cost Effective Thermoelectric Generation on Top of Rankine Cycle 2013,		1
24	Novel metal/semiconductor nanocomposite and superlattice materials and devices for thermoelectrics 2010 ,		1
23	Power Generation Efficiency with Extremely Large Z factor Thermoelectric Material. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1325, 9		1
22	Temperature nonuniformity and bias-dependent thermal resistance in multi-finger MOS transistors 2008 ,		1
21	Phonon Confinement in Germanium Nanowires 2006,		1
20	Characterization of Heat Propagation along Single Tin Dioxide Nanobelt using the Thermoreflectance Method. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1022, 1		1
19	400 element ErAs:InGaAs/InGaAlAs superlattice power generator. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 886, 1		1
18	The Effects of Defects and Acoustic Impedance Mismatch on Heat Conduction in SiGe Based Superlattices 2002 , 19		1
17	Anisotropic thermal conductivity of the nanoparticles embedded GaSb thin film semiconductor. <i>Nanotechnology</i> , 2021 , 32, 035702	3.4	1
16	Simulation and Design of a Silicon Nanowire based Phase Change Memory Cell. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1431, 20		O
15	Heat Flux Based Optimization of Combined Heat and Power Thermoelectric Heat Exchanger. <i>Energies</i> , 2021 , 14, 7791	3.1	0
14	Calibrated sub-micron temperature mapping of an operating plasmonic HAMR device by thermoreflectance imaging. <i>MRS Advances</i> , 2017 , 2, 3613-3618	0.7	
13	Energy Efficient Solid-State Cooling for Hot Spot Removal 2014 , 169-196		
12	ENERGY EFFICIENT SOLID-STATE COOLING FOR HOT SPOT REMOVAL. WSPC Series in Advanced Integration and Packaging, 2014 , 195-226		
11	Energy Efficient Solid-State Cooling for Hot Spot Removal 2014 , 169-196		
10	Design and thermoreflectance imaging of high-speed SiGe superlattice microrefrigerators. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1329, 1		
9	Investigating coherent zone-folded acoustic phonons in Si/SiGe superlattice by transient thermoreflectance technique. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1221, 8031		
8	Transient thermal imaging of Si/SiGe superlattice and bulk Si microrefrigerators. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1218, 1		

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