

CITATION REPORT

List of articles citing

Thermoelectric and structural characterizations of individual electrodeposited bismuth telluride nanowires

DOI: 10.1063/1.3133145

Journal of Applied Physics, 2009, 105, 104318.

Source: <https://exaly.com/paper-pdf/46926468/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
143	Lower limit to the lattice thermal conductivity of nanostructured Bi ₂ Te ₃ -based materials. <i>Journal of Applied Physics</i> , 2009 , 106, 073503	2.5	78
142	Thermoelectric Material Electroplating: a Historical Review. 2010 , 39, 1818-1827		95
141	High Seebeck Coefficient BiSbTe Nanowires. 2010 , 13, P15		6
140	Thermal conductivity prediction and analysis of few-quintuple Bi ₂ Te ₃ thin films: A molecular dynamics study. <i>Applied Physics Letters</i> , 2010 , 97, 183107	3.4	55
139	Semimetal nanowires and their superlattices in anodic alumina membranes. 2010 , 4, 181-93		
138	High-Throughput Measurement of the Seebeck Coefficient and the Electrical Conductivity of Lithographically Patterned Polycrystalline PbTe Nanowires. 2010 , 1, 3004-3011		20
137	Ultra-long bismuth telluride nanoribbons synthesis by lithographically patterned galvanic displacement. 2010 , 20, 9982		22
136	Lattice thermal conductivity reduction in Bi ₂ Te ₃ quantum wires with smooth and rough surfaces: A molecular dynamics study. <i>Physical Review B</i> , 2011 , 83,	3.3	61
135	Enhanced thermoelectric figure of merit in SiGe alloy nanowires by boundary and hole-phonon scattering. <i>Journal of Applied Physics</i> , 2011 , 110, 074317	2.5	55
134	Predicting Thermal Transport in Bi ₂ Te ₃ : From Bulk to Nanostructures. 2011 , 1329, 1		
133	Enhancement of the thermoelectric properties in nanoscale and nanostructured materials. 2011 , 21, 4037-4055		275
132	Thermal transport in individual thermoelectric nanowires: a review. 2011 , 15, 375-385		17
131	Thermoelectric Performance Enhancement by Surrounding Crystalline Semiconductors with Metallic Nanoparticles. 2011 ,		2
130	Pulsed electrodeposition of Bi ₂ Te ₃ and Bi ₂ Te ₃ /Te nanowire arrays from a DMSO solution. 2011 , 58, 510-515		13
129	Measurement of the intrinsic thermal conductivity of a multiwalled carbon nanotube and its contact thermal resistance with the substrate. 2011 , 7, 2334-40		67
128	Thermoelectric Nanostructures: From Physical Model Systems towards Nanograined Composites. 2011 , 1, 713-731		193
127	On errors in thermal conductivity measurements of suspended and supported nanowires using micro-thermometer devices from low to high temperatures. 2011 , 22, 015103		40

126	Influence of surface modification on thermoelectric properties of Bi ₂ Te ₃ nanowires. 2011 ,		
125	Steering and collimating ballistic electrons with amphoteric refraction. <i>Journal of Applied Physics</i> , 2012 , 112, 024318	2.5	
124	Electrochemical Deposition of Bi ₂ (Te,Se) ₃ Nanowire Arrays on Si. 2012 , 159, D235-D239		14
123	Microchips and Methods for the Characterization of Thermoelectric Transport Properties of Nanostructures. 2012 , 1-26		
122	Semiconductor nanowires for thermoelectrics. 2012 , 22, 22821		43
121	Thermal and Thermoelectric Transport in Nanostructures and Low-Dimensional Systems. 2012 , 16, 79-116		108
120	Nanostructured thermoelectric materials: Current research and future challenge. 2012 , 22, 535-549		485
119	Tuning the Geometrical and Crystallographic Characteristics of Bi ₂ Te ₃ Nanowires by Electrodeposition in Ion-Track Membranes. 2012 , 116, 5367-5375		32
118	Thermal transport in graphene. 2012 , 152, 1321-1330		142
117	Conductive scanning probe microscopy of nanostructured Bi ₂ Te ₃ . <i>Nanoscale</i> , 2012 , 4, 600-6	7.7	7
116	Molecular dynamics simulations of lattice thermal conductivity and spectral phonon mean free path of PbTe: Bulk and nanostructures. 2012 , 53, 278-285		133
115	Combined effect of nanoscale grain size and porosity on lattice thermal conductivity of bismuth-telluride-based bulk alloys. <i>Journal of Applied Physics</i> , 2012 , 112, 084315	2.5	65
114	Diameter and composition modulated bismuth telluride nanowires by galvanic displacement reaction of segmented NiFe nanowires. 2012 , 75, 201-207		9
113	Fabrication of Bi ₂ Te ₃ nanowire arrays and thermal conductivity measurement by 3D scanning thermal microscopy. <i>Journal of Applied Physics</i> , 2013 , 113, 054308	2.5	51
112	A comprehensive study of thermoelectric and transport properties of Silicon carbide nanowires. <i>Journal of Applied Physics</i> , 2013 , 114, 184301	2.5	21
111	Thermoelectric characterization of bismuth telluride nanowires, synthesized via catalytic growth and post-annealing. 2013 , 25, 239-44		73
110	Thermoelectricity in semiconductor nanowires. 2013 , 7, 767-780		24
109	Effects of surface band bending and scattering on thermoelectric transport in suspended bismuth telluride nanoplates. 2013 , 13, 5316-22		106

108	Thermoelectric power factor of ternary single-crystalline Sb ₂ Te ₃ - and Bi ₂ Te ₃ -based nanowires. <i>Nanotechnology</i> , 2013 , 24, 495402	3.4	36
107	Effect of nanostructuration on the thermal conductivity of thermoelectric materials. 2013 ,		1
106	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013 , 5, 4669-72	7.7	54
105	Nanoengineering thermoelectrics for 21st century: Energy harvesting and other trends in the field. 2013 , 24, 288-305		208
104	Preparation and electrical transport properties of nanostructured Sb ₂ Se ₃ films fabricated by combining spin-coating and gas-induced reduction. 2013 , 15, 1		12
103	Large Seebeck Coefficients of Fe ₂ TiSn and Fe ₂ TiSi: First-Principles Study. 2013 , 6, 025504		59
102	Mode-Wise Thermal Conductivity of Bismuth Telluride. 2013 , 135,		40
101	Effects of (Al,Ge) double doping on the thermoelectric properties of higher manganese silicides. <i>Journal of Applied Physics</i> , 2013 , 114, 173705	2.5	37
100	Optimized thermoelectric performance of Bi ₂ Te ₃ nanowires. 2013 , 1, 6831		30
99	Improving Bi ₂ Te ₃ -based thermoelectric nanowire microstructure via thermal processing. 2014 , 29, 182-189		7
98	The effect of a distinct diameter variation on the thermoelectric properties of individual Bi _{0.39} Te _{0.61} nanowires. 2014 , 29, 124006		22
97	Electrochemical synthesis of highly ordered nanowires with a rectangular cross section using an in-plane nanochannel array. <i>Nanotechnology</i> , 2014 , 25, 504002	3.4	7
96	The influence of a Te-depleted surface on the thermoelectric transport properties of Bi _{1-x} Te _x nanowires. <i>Nanotechnology</i> , 2014 , 25, 365401	3.4	10
95	Nanoscale thermal transport. II. 2003-2012. 2014 , 1, 011305		1050
94	Thermal and electronic transport of semiconducting nanoparticle-functionalized carbon nanotubes. <i>Carbon</i> , 2014 , 69, 46-54	10.4	20
93	25th anniversary article: semiconductor nanowires--synthesis, characterization, and applications. 2014 , 26, 2137-84		649
92	Nanoscale Thermoelectrics. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 ,	0.3	15
91	A modified sol-gel technique for pore size control in porous aluminum oxide nanowire templates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20122-9	9.5	13

90	Tailoring bismuth telluride nanostructures using a scalable sintering process and their thermoelectric properties. 2014 , 16, 7956-7962		17
89	Twin-driven thermoelectric figure-of-merit enhancement of Bi ₂ Te ₃ nanowires. <i>Nanoscale</i> , 2014 , 6, 6158-6165		52
88	Magnetothermopower and magnetoresistance of single Co-Ni/Cu multilayered nanowires. <i>Physical Review B</i> , 2014 , 90,	3-3	46
87	Thermopower detection of single nanowire using a MEMS device. 2014 , 51, 470-475		3
86	Thermoelectric Properties of Band Structure Engineered Topological Insulator (Bi _{1-x} Sb _x) ₂ Te ₃ Nanowires. 2015 , 5, 1500280		20
85	Measuring Techniques for Thermal Conductivity and Thermoelectric Figure of Merit of V _{VI} Compound Thin Films and Nanowires. 2015 , 223-252		1
84	Individual thermoelectric properties of electrodeposited bismuth telluride nanowires in polycarbonate membranes. 2015 , 161, 403-407		13
83	Prospects for thermoelectricity in quantum dot hybrid arrays. 2015 , 10, 997-1001		51
82	Facile hydrothermal synthesis and formation mechanisms of Bi ₂ Te ₃ , Sb ₂ Te ₃ and Bi ₂ Te ₃ /Sb ₂ Te ₃ nanowires. 2015 , 5, 100309-100315		14
81	Thermoelectric performance of classical topological insulator nanowires. 2015 , 30, 015015		34
80	Temperature-dependent thermoelectric properties of individual silver nanowires. <i>Physical Review B</i> , 2015 , 91,	3-3	59
79	Dielectrophoretic investigation of Bi ₂ Te ₃ nanowires-a microfabricated thermoelectric characterization platform for measuring the thermoelectric and structural properties of single nanowires. <i>Nanotechnology</i> , 2015 , 26, 125707	3-4	6
78	Ab initio calculations of ideal and defective bismuth telluride nanotubes. 2015 , 252, 517-520		1
77	Thermoelectric Properties of Indium(III)-Doped Copper Antimony Selenide Thin Films Deposited Using a Microwave-Assisted Technique. 2016 , 4, 835-842		20
76	Ultra-high resolution steady-state micro-thermometry using a bipolar direct current reversal technique. 2016 , 87, 094901		2
75	Measurement of thermal conductivity of Bi ₂ Te ₃ nanowire using high-vacuum scanning thermal wave microscopy. <i>Applied Physics Letters</i> , 2016 , 108, 071907	3-4	8
74	Thermoelectric properties of semiconductor nanowire networks. <i>Journal of Applied Physics</i> , 2016 , 119, 125107	2-5	4
73	Assessing the thermoelectric properties of single InSb nanowires: the role of thermal contact resistance. 2016 , 31, 064001		13

72	Measuring methods for thermoelectric properties of one-dimensional nanostructural materials. 2016 , 6, 48933-48961		12
71	Surface effects on thermoelectric properties of metallic and semiconducting nanowires. 2016 , 213, 557-570		4
70	Semiconductor Nanowires for Energy Harvesting. <i>Semiconductors and Semimetals</i> , 2016 , 94, 297-368	0.6	4
69	The surface-to-volume ratio: a key parameter in the thermoelectric transport of topological insulator Bi ₂ Se ₃ nanowires. <i>Nanoscale</i> , 2016 , 8, 13552-7	7.7	21
68	Thermoelectric properties of solution-synthesized n-type Bi ₂ Te ₃ nanocomposites modulated by Se: An experimental and theoretical study. 2016 , 9, 117-127		30
67	Effects of doping and planar defects on the thermoelectric properties of InAs nanowires. 2016 , 6, 7791-7797		7
66	Electrodeposition of textured Bi ₂₇ Sb ₂₈ Te ₄₅ nanowires with enhanced electrical conductivity. 2016 , 173, 438-445		3
65	A T-type method for characterization of the thermoelectric performance of an individual free-standing single crystal Bi ₂ S ₃ nanowire. <i>Nanoscale</i> , 2016 , 8, 2704-10	7.7	35
64	Thermoelectric nanowires: A brief prospective. 2016 , 111, 54-57		40
63	Physisorbed versus chemisorbed oxygen effect on thermoelectric properties of highly organized single walled carbon nanotube nanofilms. 2017 , 7, 14078-14087		13
62	Nanostructured Thermoelectric Materials: Current Research and Future Challenges. 2017 , 507-546		1
61	Thermal conductivity of BiTe nanowires: how size affects phonon scattering. <i>Nanoscale</i> , 2017 , 9, 6741-6747		30
60	Evolution of Microstructural Disorder in Annealed Bismuth Telluride Nanowires. 2017 , 6, N3117-N3124		3
59	Effects of Mass Fluctuation on Thermal Transport Properties in Bulk Bi ₂ Te ₃ . 2017 , 46, 2797-2806		5
58	Experimental Studies of Thermal Transport in Nanostructures. 2017 , 319-357		0
57	Perfect quintuple layer Bi ₂ Te ₃ nanowires: Growth and thermoelectric properties. <i>APL Materials</i> , 2017 , 5, 086110	5.7	2
56	Topological insulators for thermoelectrics. 2017 , 2,		90
55	Thermoelectric potentials in semiconductors. 2017 , 381, 2704-2708		5

54	Monolithic Bi _{1.5} Sb _{0.5} Te ₃ ternary alloys with a periodic 3D nanostructure for enhancing thermoelectric performance. 2017 , 5, 8974-8980			25
53	Patent Basics Every Researcher and Engineer Should Know. 2017 , 480-495			
52	Robust broad spectral photodetection (UV-NIR) and ultra high responsivity investigated in nanosheets and nanowires of BiTe under harsh nano-milling conditions. 2017 , 7, 17911			45
51	Improvement of Seebeck coefficient in as-grown Bi ₂ Te ₃ -ySe _y electrodeposited films by the addition of additives and bath optimization. 2018 , 269, 490-498			4
50	Development of a TEM Compatible Nanowire Characterization Platform With Self-Forming Contacts. 2018 , 31, 22-31			2
49	Observation of a low temperature n-p transition in individual titania nanotubes. <i>Nanoscale</i> , 2018 , 10, 3863-3870		7.7	9
48	Phase-dependent thermal conductivity of electrodeposited antimony telluride films. 2018 , 6, 3410-3416			4
47	Experimental characterization methods for thermal contact resistance: A review. 2018 , 130, 1530-1548			46
46	Structural and thermoelectric properties of Se doped In ₂ Te ₃ thin films. <i>AIP Advances</i> , 2018 , 8, 115015	1.5		2
45	Physical origin of inertness of Ta contacts on Bi ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2018 , 124, 185106	2.5		2
44	Bi nanowires modified by 400 keV and 1 MeV Au ions. <i>AIP Advances</i> , 2018 , 8, 125103	1.5		2
43	Manipulating thermal and electronic transports in thermoelectric Bi ₂ Te ₃ nanowires by porphyrin adsorption. <i>AIP Advances</i> , 2018 , 8, 105010	1.5		4
42	Growth of epitaxial FeGe _{1-x} Sn _x nanocrystals with incommensurate Nowotny chimney-ladder phase on Si substrate. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 08NB01	1.4		4
41	Measurement of the Thermoelectric Properties of Individual Nanostructures. <i>Semiconductors and Semimetals</i> , 2018 , 98, 409-444	0.6		8
40	Temperature-dependent Thermoelectric Properties of Electrodeposited Antimony Telluride Films upon Thermal Annealing. 2018 ,			1
39	Nanoscale self-assembly of thermoelectric materials: a review of chemistry-based approaches. <i>Nanotechnology</i> , 2018 , 29, 432001	3.4		36
38	Nanowires for heat conversion. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 353001	3		22
37	Enhanced thermoelectric efficiency in topological insulator Bi ₂ Te ₃ nanoplates via atomic layer deposition-based surface passivation. <i>Applied Physics Letters</i> , 2018 , 113, 083904	3.4		12

36	Electrodeposition of V-VI Nanowires and Their Thermoelectric Properties. <i>Frontiers in Chemistry</i> , 2019 , 7, 516	5	9
35	Nanowire forest of pnictogen-chalcogenide alloys for thermoelectricity. <i>Nanoscale</i> , 2019 , 11, 13423-13430	3.7	2
34	Capturing anharmonic and anisotropic natures in the thermotics and mechanics of Bi ₂ Te ₃ thermoelectric material through an accurate and efficient potential. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 425303	3	5
33	Development of interatomic potentials for the complex binary compound Sb ₂ Te ₃ and the prediction of thermal conductivity. <i>Physical Review B</i> , 2019 , 99,	3.3	2
32	Thermoelectrics of Nanowires. <i>Chemical Reviews</i> , 2019 , 119, 9260-9302	68.1	64
31	Single silicon nanowires as inherent heaters and thermometers for thermal conductivity measurements. <i>AIP Advances</i> , 2019 , 9, 015107	1.5	4
30	Enhanced thermoelectric performance in single-crystal-like semiconducting flexible GaAs films. <i>APL Materials</i> , 2019 , 7, 031104	5.7	2
29	Phonon transport and thermoelectric properties of semiconducting BiTeX (X = S, Se, Te) monolayers. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5679-5688	3.6	34
28	Thermal conductivity suppression in GaAs-AlAs core-shell nanowire arrays. <i>Nanoscale</i> , 2019 , 11, 20507-20513	20.1	7
27	Thermodynamic properties of SnO ₂ /GaAs core/shell nanofiber. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 560, 125104	3.3	5
26	Focused ion beam deposited carbon-platinum nanowires for cryogenic resistive thermometry. <i>Carbon</i> , 2020 , 169, 482-487	10.4	1
25	A review on advanced carbon-based thermal interface materials for electronic devices. <i>Carbon</i> , 2020 , 168, 65-112	10.4	43
24	Bipolar Thermoelectrical Transport of SnSe Nanoplate in Low Temperature*. <i>Chinese Physics Letters</i> , 2020 , 37, 017301	1.8	4
23	Heat transport with phonon-electron energy exchange in Bi ₂ Te ₃ circular thin layers. <i>Journal of Applied Physics</i> , 2020 , 127, 064301	2.5	
22	Review of experimental approaches for improving zT of thermoelectric materials. <i>Materials Science in Semiconductor Processing</i> , 2021 , 121, 105303	4.3	40
21	Phonon- and electron-temperature waves in a Maxwell-Cattaneo heat-conduction theory. <i>Journal of Thermal Stresses</i> , 2021 , 44, 1-19	2.2	3
20	Direct mapping of temperature-difference-induced potential variation under non-thermal equilibrium. <i>Applied Physics Letters</i> , 2021 , 118, 091605	3.4	0
19	The optimized electrochemical deposition of bismuth-bismuth telluride layered crystal structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1140, 012016	0.4	1

18	Bottom-Up Engineering Strategies for High-Performance Thermoelectric Materials. <i>Nano-Micro Letters</i> , 2021 , 13, 119	19.5	15
17	Development of microdevices for the in-plane thermoelectric characterization of deposited films. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1190-1200	5.5	
16	Prediction of BiTe-SbTe Interfacial Conductance and Superlattice Thermal Conductivity Using Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4636-4642	9.5	2
15	One-Dimensional Bi-Based Nanostructures for Thermoelectrics. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 237-254	0.3	2
14	Electrochemistry of bismuth interlayers in (Bi ₂) _m (Bi ₂ Te ₃) _n superlattice. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	
13	Quantitative Method to Measure Thermal Conductivity of One-Dimensional Nanostructures Based on Scanning Thermal Wave Microscopy. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2014 , 38, 957-962	0.5	
12	Thermal Properties of Inorganic Nanostructures. <i>Series in Materials Science and Engineering</i> , 2016 , 247-267		
11	Fabrication and Characterization of PLD-Grown Bismuth Telluride (Bi ₂ Te ₃) and Antimony Telluride (Sb ₂ Te ₃) Thermoelectric Devices. <i>Journal of Electronics Cooling and Thermal Control</i> , 2017 , 07, 63-77	0.5	1
10	Effects of topological band structure on thermoelectric transport of bismuthene. <i>Physical Review B</i> , 2021 , 104,	3.3	1
9	Novel method for convenient Seebeck coefficient measurements on individual Si nanowires. <i>Journal of Applied Physics</i> , 2020 , 128, 185108	2.5	
8	High ZT in p-type thermoelectric (Bi,Sb) ₂ Te ₃ with built-in nanopores. <i>Energy and Environmental Science</i> ,	35.4	6
7	Durable, stretchable and washable inorganic-based woven thermoelectric textiles for power generation and solid-state cooling. <i>Energy and Environmental Science</i> ,	35.4	5
6	Thermal conductivity of materials under pressure. <i>Nature Reviews Physics</i> ,	23.6	5
5	Suppressed atomic diffusion in flash sintering of bismuth telluride. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
4	Comprehensive Review on Thermoelectric Electrodeposits: Enhancing Thermoelectric Performance Through Nanoengineering.. <i>Frontiers in Chemistry</i> , 2021 , 9, 762896	5	3
3	Thermoelectric Properties of an Individual Suspended Single-Crystalline Sb ₂ Se ₃ Nanowire. <i>Journal of Thermal Science</i> ,	1.9	0
2	Selective Dissolution-Derived Nanoporous Design of Impurity-Free Bi ₂ Te ₃ Alloys with High Thermoelectric Performance. 2205202		0
1	High-Performance Industrial-Grade p-Type (Bi,Sb) ₂ Te ₃ Thermoelectric Enabled by a Stepwise Optimization Strategy.		0

