

Heiko Reith

List of Publications by Citations

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Version: 2024-04-28

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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.

40
papers

755
citations

14
h-index

26
g-index

47
ext. papers

947
ext. citations

7.8
avg, IF

3.92
L-index

#	Paper	IF	Citations
40	Improved thermoelectric performance of n-type half-Heusler $MCo_{1-x}Ni_xSb$ ($M = Hf, Zr$). <i>Materials Today Physics</i> , 2017 , 1, 24-30	8	110
39	The experimental investigation of thermal conductivity and the Wiedemann-Franz law for single metallic nanowires. <i>Nanotechnology</i> , 2009 , 20, 325706	3.4	102
38	A tunable strain sensor using nanogranular metals. <i>Sensors</i> , 2010 , 10, 9847-56	3.8	92
37	Synergetic Enhancement of Thermoelectric Performance by Selective Charge Anderson Localization-Delocalization Transition in n-Type Bi-Doped PbTe/AgTe Nanocomposite. <i>ACS Nano</i> , 2019 , 13, 3806-3815	16.7	48
36	Integrated microthermoelectric coolers with rapid response time and high device reliability. <i>Nature Electronics</i> , 2018 , 1, 555-561	28.4	41
35	Towards tellurium-free thermoelectric modules for power generation from low-grade heat. <i>Nature Communications</i> , 2021 , 12, 1121	17.4	36
34	Catalytic purification of directly written nanostructured Pt microelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15868-74	9.5	32
33	Berry phase and band structure analysis of the Weyl semimetal NbP. <i>Scientific Reports</i> , 2016 , 6, 33859	4.9	29
32	Doping High-Mobility Donor/Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900945	6.4	22
31	The surface-to-volume ratio: a key parameter in the thermoelectric transport of topological insulator Bi_2Se_3 nanowires. <i>Nanoscale</i> , 2016 , 8, 13552-7	7.7	21
30	Platform for in-plane ZT measurement and Hall coefficient determination of thin films in a temperature range from 120 K up to 450 K. <i>Journal of Materials Research</i> , 2016 , 31, 3196-3204	2.5	21
29	Intra-wire coupling in segmented Ni/Cu nanowires deposited by electrodeposition. <i>Nanotechnology</i> , 2017 , 28, 065709	3.4	19
28	Microchips for the Investigation of Thermal and Electrical Properties of Individual Nanowires. <i>Journal of Electronic Materials</i> , 2010 , 39, 1950-1956	1.9	18
27	Transport properties of cobalt monosilicide and its alloys at low temperatures. <i>Semiconductors</i> , 2017 , 51, 689-691	0.7	14
26	Electronic Structure and Thermoelectric Properties of Transition Metal Monosilicides. <i>Journal of Electronic Materials</i> , 2018 , 47, 3277-3281	1.9	14
25	Fabrication and Modeling of Integrated Micro-Thermoelectric Cooler by Template-Assisted Electrochemical Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, N3022-N3028	2	12
24	Complete Thermoelectric Characterization of PEDOT:PSS Thin Films with a Novel ZT Test Chip Platform. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700930	1.6	12

23	Polyethenetetrathiolate or polytetraathiooxalate? Improved synthesis, a comparative analysis of a prominent thermoelectric polymer and implications to the charge transport mechanism. <i>Polymer Chemistry</i> , 2018 , 9, 4543-4555	4.9	12
22	Fabrication and thermoelectrical characterization of three-dimensional nanowire networks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 610-619	1.6	12
21	Ternary, single-crystalline Bi ₂ (Te, Se) ₃ nanowires grown by electrodeposition. <i>Acta Materialia</i> , 2017 , 125, 238-245	8.4	11
20	One-dimensional edge transport on the surface of cylindrical Bi ₂ Te ₃ /Sey nanowires in transverse magnetic fields. <i>Applied Physics Letters</i> , 2015 , 107, 181602	3.4	11
19	Analytical Investigation of the Limits for the In-Plane Thermal Conductivity Measurement Using a Suspended Membrane Setup. <i>Journal of Electronic Materials</i> , 2018 , 47, 3203-3209	1.9	8
18	Temperature gradient-induced magnetization reversal of single ferromagnetic nanowires. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 494007	3	5
17	Low temperature annealing effects on the stability of Bi nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 603-609	1.6	5
16	Thermoelectric properties of silicides with topologically non-trivial electronic structure: Co _{1-x} M _x Si (M=Fe, Ni). <i>Materials Today: Proceedings</i> , 2019 , 8, 540-545	1.4	4
15	Influence of irradiation-induced disorder on the Peierls transition in TTF-TCNQ microdomains. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 385301	3	4
14	Thermoelectric Characterization Platform for Electrochemically Deposited Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901288	6.4	3
13	Transport measurements on microcrystals of oriented CeIn ₃ and CeCoIn ₅ thin films. <i>Thin Solid Films</i> , 2010 , 518, 7064-7069	2.2	3
12	Signatures of a Charge Density Wave Phase and the Chiral Anomaly in the Fermionic Material Cobalt Monosilicide CoSi. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900857	6.4	3
11	Transparent Power-Generating Windows Based on Solar-Thermal-Electric Conversion. <i>Advanced Energy Materials</i> , 2021 , 11, 2101213	21.8	3
10	Low-temperature thermal conductivity of thermoelectric Co _{1-x} M _x Si (M= Fe, Ni) alloys. <i>Materials Today Energy</i> , 2021 , 20, 100666	7	3
9	Design Guidelines for Micro-Thermoelectric Devices by Finite Element Analysis. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800093	5.9	3
8	Geometrical Optimization and Thermal-Stability Characterization of Te-Free Thermoelectric Modules Based on MgAgSb/Mg (Bi,Sb).. <i>Small</i> , 2022 , e2201183	11	3
7	Thermoelectric properties of Au and Ti nanofilms, characterized with a novel measurement platform. <i>Materials Today: Proceedings</i> , 2019 , 8, 517-522	1.4	2
6	Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi Sb) Te Ternary Alloys. <i>ChemistryOpen</i> , 2021 , 10, 189-198	2.3	2

5	High-Performance n-Type Ge-Free Silicon Thermoelectric Material from Silicon Waste. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47912-47920	9.5	2
4	Interface-Dominated Topological Transport in Nanograined Bulk Bi Te. <i>Small</i> , 2021 , 17, e2103281	11	2
3	Geometric Study of Polymer Embedded Micro Thermoelectric Cooler with Optimized Contact Resistance. <i>Advanced Electronic Materials</i> , 2101042	6.4	1
2	Study of the Annealing Effects of Sputtered Bi ₂ Te ₃ Thin Films with Full Thermoelectric Figure of Merit Characterization. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022 , 16, 2100533	2.5	0
1	Crystal Structure Analysis and Magneto-Transport Investigation of Co _{1-x} Fe _x Si (with x = 0% to x = 20%). <i>Advanced Electronic Materials</i> , 2101081	6.4	