

Heiko Reith

List of Publications by Year in Descending Order

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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 | 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 |
| 39 | Geometrical Optimization and Thermal-Stability Characterization of Te-Free Thermoelectric Modules Based on MgAgSb/Mg (Bi,Sb).. <i>Small</i> , 2022 , e2201183 | 11 | 3 |
| 38 | Transparent Power-Generating Windows Based on Solar-Thermal-Electric Conversion. <i>Advanced Energy Materials</i> , 2021 , 11, 2101213 | 21.8 | 3 |
| 37 | Low-temperature thermal conductivity of thermoelectric Co _{1-x} M Si (M= Fe, Ni) alloys. <i>Materials Today Energy</i> , 2021 , 20, 100666 | 7 | 3 |
| 36 | Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi Sb) Te Ternary Alloys. <i>ChemistryOpen</i> , 2021 , 10, 189-198 | 2.3 | 2 |
| 35 | Towards tellurium-free thermoelectric modules for power generation from low-grade heat. <i>Nature Communications</i> , 2021 , 12, 1121 | 17.4 | 36 |
| 34 | 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 |
| 33 | Interface-Dominated Topological Transport in Nanograined Bulk Bi Te. <i>Small</i> , 2021 , 17, e2103281 | 11 | 2 |
| 32 | Thermoelectric Characterization Platform for Electrochemically Deposited Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901288 | 6.4 | 3 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Design Guidelines for Micro-Thermoelectric Devices by Finite Element Analysis. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800093 | 5.9 | 3 |
| 25 | 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 |
| 24 | Polyethenetetrathiolate or polytetrathiooxalate? 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 |

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| 23 | 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 |
| 22 | Electronic Structure and Thermoelectric Properties of Transition Metal Monosilicides. <i>Journal of Electronic Materials</i> , 2018 , 47, 3277-3281 | 1.9 | 14 |
| 21 | Integrated microthermoelectric coolers with rapid response time and high device reliability. <i>Nature Electronics</i> , 2018 , 1, 555-561 | 28.4 | 41 |
| 20 | Intra-wire coupling in segmented Ni/Cu nanowires deposited by electrodeposition. <i>Nanotechnology</i> , 2017 , 28, 065709 | 3.4 | 19 |
| 19 | Transport properties of cobalt monosilicide and its alloys at low temperatures. <i>Semiconductors</i> , 2017 , 51, 689-691 | 0.7 | 14 |
| 18 | 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 |
| 17 | Ternary, single-crystalline Bi ₂ (Te, Se) ₃ nanowires grown by electrodeposition. <i>Acta Materialia</i> , 2017 , 125, 238-245 | 8.4 | 11 |
| 16 | Temperature gradient-induced magnetization reversal of single ferromagnetic nanowires. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 494007 | 3 | 5 |
| 15 | Improved thermoelectric performance of n-type half-Heusler MCo _{1-x} Ni _x Sb (M = Hf, Zr). <i>Materials Today Physics</i> , 2017 , 1, 24-30 | 8 | 110 |
| 14 | Berry phase and band structure analysis of the Weyl semimetal NbP. <i>Scientific Reports</i> , 2016 , 6, 33859 | 4.9 | 29 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | One-dimensional edge transport on the surface of cylindrical Bi ₂ Te ₃ /Sb ₂ Te ₃ nanowires in transverse magnetic fields. <i>Applied Physics Letters</i> , 2015 , 107, 181602 | 3.4 | 11 |
| 8 | Catalytic purification of directly written nanostructured Pt microelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15868-74 | 9.5 | 32 |
| 7 | 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 |
| 6 | A tunable strain sensor using nanogranular metals. <i>Sensors</i> , 2010 , 10, 9847-56 | 3.8 | 92 |

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| 5 | 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 |
| 4 | 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 |
| 3 | The experimental investigation of thermal conductivity and the Wiedemann-Franz law for single metallic nanowires. <i>Nanotechnology</i> , 2009 , 20, 325706 | 3.4 | 102 |
| 2 | Geometric Study of Polymer Embedded Micro Thermoelectric Cooler with Optimized Contact Resistance. <i>Advanced Electronic Materials</i> , 2101042 | 6.4 | 1 |
| 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 | |