

Terry M Tritt

List of Publications by Year in descending order

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71
papers

7,335
citations

159358

30
h-index

123241

61
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74
all docs

74
docs citations

74
times ranked

6283
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical investigations of electrical transport properties in CoSb ₃ skutterudites under hydrostatic loadings. <i>Rare Metals</i> , 2018, 37, 316-325.	3.6	8
2	Polymer-Derived Silicon Oxycarbide Ceramics as Promising Next-Generation Sustainable Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2236-2241.	4.0	29
3	Advances in thermoelectric materials research: Looking back and moving forward. <i>Science</i> , 2017, 357, .	6.0	1,613
4	Effects of partial La filling and Sb vacancy defects on CoSb_3 skutterudites. <i>Physical Review B</i> , 2017, 95, .	1.1	26
5	High thermoelectric figure of merit by resonant dopant in half-Heusler alloys. <i>AIP Advances</i> , 2017, 7, .	0.6	41
6	Enhancing the thermoelectric performance of nanosized CoSb ₃ via short-range percolation of electrically conductive WTe ₂ inclusions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13874-13880.	5.2	38
7	Half-Heusler Alloys for Efficient Thermoelectric Power Conversion. <i>Journal of Electronic Materials</i> , 2016, 45, 5554-5560.	1.0	37
8	High temperature thermoelectric properties of Ba _{0.15} Yb _x Co ₃ FeSb ₁₂ p-type skutterudites. <i>Journal of Materials Research</i> , 2015, 30, 2558-2563.	1.2	6
9	Synthesis of Non-uniformly Pr-doped SrTiO ₃ ; Ceramics and Their Thermoelectric Properties. <i>Journal of Visualized Experiments</i> , 2015, , e52869.	0.2	3
10	High-temperature thermoelectric properties of p-type skutterudites Ba _{0.15} Yb _x Co ₃ FeSb ₁₂ and Yb _y Co ₃ FeSb ₉ As ₃ . <i>Journal of Materials Science</i> , 2015, 50, 34-39.	1.7	11
11	Precursor Routes to Complex Ternary Intermetallics: Single-Crystal and Microcrystalline Preparation of Clathrate-I Na ₈ Al ₈ Si ₃₈ from NaSi + NaAlSi. <i>Inorganic Chemistry</i> , 2015, 54, 5316-5321.	1.9	21
12	Thermoelectric power factor: Enhancement mechanisms and strategies for higher performance thermoelectric materials. <i>Materials Science and Engineering Reports</i> , 2015, 97, 1-22.	14.8	311
13	Doping site dependent thermoelectric properties of epitaxial strontium titanate thin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9712-9719.	2.7	12
14	Large Thermoelectric Power Factor in Pr-Doped SrTiO ₃ Ceramics via Grain-Boundary-Induced Mobility Enhancement. <i>Chemistry of Materials</i> , 2014, 26, 2478-2485.	3.2	77
15	Thermoelectric Properties of Strontium Titanate Superlattices Incorporating Niobium Oxide Nanolayers. <i>Chemistry of Materials</i> , 2014, 26, 2726-2732.	3.2	10
16	Thermoelectric Properties of Li-Intercalated ZrSe ₂ Single Crystals. <i>Journal of Electronic Materials</i> , 2013, 42, 1751-1755.	1.0	20
17	Preferential Scattering by Interfacial Charged Defects for Enhanced Thermoelectric Performance in Few-layered n-type Bi ₂ Te ₃ . <i>Scientific Reports</i> , 2013, 3, 3212.	1.6	107
18	Hot deformation induced bulk nanostructuring of unidirectionally grown p-type (Bi,Sb) ₂ Te ₃ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11589.	5.2	110

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19	High-temperature thermoelectric properties of p-type skutterudites $\text{Yb}_{1-x}\text{Co}_3\text{FeSb}_{12}$. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 418-420.	1.2	8
20	High performance Bi_2Te_3 nanocomposites prepared by single-element-melt-spinning spark-plasma sintering. <i>Journal of Materials Science</i> , 2013, 48, 2745-2760.	1.7	96
21	Thermoelectric behaviour of p- and n- type Ti-Ni-Sn half Heusler alloy variants and their amorphous equivalents. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 33-40.	0.1	0
22	LOW TEMPERATURE THERMOELECTRIC PROPERTIES AND AGING PHENOMENA OF NANOSTRUCTURED p-TYPE $\text{Bi}_{2-x}\text{Sb}_x\text{Te}_3$ ($x = 0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9$) Overlock	0.7	0
23	Roles of interstitial Mg in improving thermoelectric properties of Sb-doped $\text{Mg}_2\text{Si}_{0.4}\text{Sn}_{0.6}$ solid solutions. <i>Journal of Materials Chemistry</i> , 2012, 22, 6838.	6.7	107
24	Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. <i>Journal of Materials Research</i> , 2011, 26, 2795-2802.	1.2	136
25	Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered $(\text{Bi,Sb})_2\text{Te}_3$ thermoelectric materials. <i>Journal of Materials Research</i> , 2011, 26, 1791-1799.	1.2	58
26	Thermoelectric Phenomena, Materials, and Applications. <i>Annual Review of Materials Research</i> , 2011, 41, 433-448.	4.3	540
27	High-Temperature Thermoelectric Properties of $\text{Co}_4\text{Sb}_{12}$ -Based Skutterudites with Multiple Filler Atoms: $\text{Ce}_{0.1}\text{In}_x\text{Yb}_y\text{Co}_4\text{Sb}_{12}$. <i>Journal of Electronic Materials</i> , 2011, 40, 696-701.	1.0	53
28	Miscibility gap and thermoelectric properties of ecofriendly $\text{Mg}_2\text{Si}_{1-x}\text{Sn}_x$ (0.1 $\leq x \leq$ 0.8) solid solutions by flux method. <i>Journal of Materials Research</i> , 2011, 26, 3038-3043.	1.2	42
29	Tuning the thermoelectric properties of polycrystalline FeSb_2 by the in situ formation of Sb/InSb nano-inclusions. <i>Journal of Materials Research</i> , 2011, 26, 1894-1899.	1.2	16
30	Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of $(\text{Bi,Sb})_2\text{Te}_3$ Nanocomposites. <i>Nano Letters</i> , 2010, 10, 3283-3289.	4.5	484
31	High temperature thermoelectric properties of double-filled $\text{In}_x\text{Yb}_y\text{Co}_4\text{Sb}_{12}$ skutterudites. <i>Journal of Applied Physics</i> , 2009, 105, 084907.	1.1	43
32	New Ternary Arsenides for High-Temperature Thermoelectric Applications. <i>Journal of Electronic Materials</i> , 2009, 38, 1030-1036.	1.0	4
33	Synthesis and Thermoelectric Properties of the Double-Filled Skutterudite $\text{Yb}_{0.2}\text{In}_y\text{Co}_4\text{Sb}_{12}$. <i>Journal of Electronic Materials</i> , 2009, 38, 981-984.	1.0	35
34	Thermoelectric Properties of Zintl Compound YbZn_2Sb_2 with Mn Substitution in Anionic Framework. <i>Journal of Electronic Materials</i> , 2009, 38, 1068-1071.	1.0	16
35	Effects of Ball-Milling Atmosphere on the Thermoelectric Properties of TAGS-85 Compounds. <i>Journal of Electronic Materials</i> , 2009, 38, 1142-1147.	1.0	6
36	Nanoscale granular boundaries in polycrystalline $\text{Pb}_{0.75}\text{Sn}_{0.25}\text{Te}$: an innovative approach to enhance the thermoelectric figure of merit. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 221-228.	0.8	16

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37	Unique nanostructures and enhanced thermoelectric performance of melt-spun BiSbTe alloys. Applied Physics Letters, 2009, 94, .	1.5	507
38	High thermoelectric performance BiSbTe alloy with unique low-dimensional structure. Journal of Applied Physics, 2009, 105, .	1.1	177
39	Determination of in-plane thermal conductivity of NaCo_2O_4 single crystals via a parallel thermal conductance (PTC) technique. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1152-1156.	0.8	4
40	First-principles study of the electronic, optical, and lattice vibrational properties of AgSbTe . Physical Review B, 2008, 77, .	1.1	75
41	Improved thermoelectric performance in the Zintl phase compounds $\text{YbZn}_2\text{Mn}_x\text{Sb}_2$ via isoelectronic substitution in the anionic framework. Journal of Applied Physics, 2008, 104, .	1.1	81
42	Thermoelectrics: Direct Solar Thermal Energy Conversion. MRS Bulletin, 2008, 33, 366-368.	1.7	312
43	Thermoelectric properties of p-type half-Heusler alloys $\text{Zr}_{1-x}\text{Ti}_x\text{CoSb}_{1-y}\text{Sb}_y$ (0.0 x, y ≤ 0.5). T_j ETQq _{1,1} 0.7843 ₁₄ rgBT ₄₃	1.1	43
44	(Zr,Hf)Co(Sb,Sn) half-Heusler phases as high-temperature (>700Å°C) p-type thermoelectric materials. Applied Physics Letters, 2008, 93, .	1.5	189
45	The Study of Solvothermal Synthesis of Nano-Engineered CoSb ₃ Skutterudite Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	2
46	New Opportunities in Existing Thermoelectric Materials: Grain Boundary Engineering in Pulverized p-Bi ₂ Te ₃ System. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
47	Synthesis and Optical Properties of 1D Bismuth Nanorods. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
48	Thermal conductivity of CoSb ₃ nano-composites grown via a novel solvothermal nano-plating technique. Physica Status Solidi - Rapid Research Letters, 2007, 1, 229-231.	1.2	27
49	Thermoelectric Properties of Mo ₃ Sb _{5.4} Te _{1.6} and Ni _{0.06} Mo ₃ Sb _{5.4} Te _{1.6} . Journal of Electronic Materials, 2007, 36, 727-731.	1.0	19
50	Crystal Growth, Structure, and Stoichiometry of the Superconducting Pyrochlore Cd ₂ Re ₂ O ₇ . Journal of Electronic Materials, 2007, 36, 740-745.	1.0	11
51	Thermoelectric Properties of Half-Heusler Bismuthides $\text{ZrCo}_{1-x}\text{Ni}_x\text{Bi}$ ($x = 0.0$ to 0.1). Journal of Electronic Materials, 2007, 36, 732-735.	1.0	13
52	Synthesis and Thermoelectric Properties of Nano-Engineered CoSb ₃ Skutterudite Materials. Journal of Electronic Materials, 2007, 36, 711-715.	1.0	30
53	Thermoelectric Materials, Phenomena, and Applications: A Bird's Eye View. MRS Bulletin, 2006, 31, 188-198.	1.7	1,295
54	Theoretical studies on the thermopower of semiconductors and low-band-gap crystalline polymers. Physical Review B, 2005, 72, .	1.1	120

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55	Properties of metallic $\text{Na}_x\text{Co}_2\text{O}_4$ thermoelectric materials. Materials Research Society Symposia Proceedings, 2003, 793, 260.	0.1	0
56	Evidence of a Order-Disorder Transition in the Crystalline Phase of Cd_6Yb , 1/1 cubic approximant of icosahedral Cd 5.7 Yb. Materials Research Society Symposia Proceedings, 2003, 793, 277.	0.1	0
57	Raman scattering in doped transition metal pentatellurides. Journal of Applied Physics, 2002, 92, 2524-2527.	1.1	9
58	Thermoelectric Properties of Eu-doped CoSb_3 . Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	0
59	High Temperature Electrical Transport Properties of Eu and Yb-doped Skutterudites. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	0
60	Electrical Transport Properties of Rare Earth Doped Pentatellurides. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	0
61	Annealing Studies of Re Doped AlPdMn Quasicrystals. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	1
62	Dynamic measurement access, a new technique for fast thermal conductivity measurement. Review of Scientific Instruments, 2001, 72, 3937-3939.	0.6	9
63	Apparatus for the rapid measurement of electrical transport properties for both "needle-like" and bulk materials. Review of Scientific Instruments, 2001, 72, 3129-3131.	0.6	106
64	Suppression of the resistivity anomaly and corresponding thermopower behavior in the pentatelluride system by the addition of $\text{Sb:Hf}_{1-x}\text{Zr}_x\text{Te}_5$ YSbY. Physical Review B, 2001, 64, .	1.1	26
65	Synthesis and Physical Properties of Skutterudite Superlattices. Materials Research Society Symposia Proceedings, 2000, 626, 231.	0.1	0
66	Investigation of the thermal conductivity of the pentatellurides ($\text{Hf}_{1-x}\text{Zr}_x\text{Te}_5$) using the parallel thermal conductance technique.. Materials Research Society Symposia Proceedings, 2000, 626, 731.	0.1	0
67	Investigation of the thermal conductivity of the mixed pentatellurides $\text{Hf}_{1-x}\text{Zr}_x\text{Te}_5$. Applied Physics Letters, 2000, 77, 2319-2321.	1.5	23
68	The Synthesis of Metastable Skutterudites and Crystalline Superlattices. Materials Research Society Symposia Proceedings, 2000, 626, 111.	0.1	4
69	Transition-metal pentatellurides as potential low-temperature thermoelectric refrigeration materials. Physical Review B, 1999, 60, 13453-13457.	1.1	75
70	Measurement and Characterization Techniques for Thermoelectric Materials. Materials Research Society Symposia Proceedings, 1997, 478, 25.	0.1	22
71	Solar thermoelectrics: direct solar thermal energy conversion. , 0, , 289-294.		3