Ctirad Uher

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| # | Paper | IF | Citations |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|
| 496 | Ultralow thermal conductivity and high thermoelectric figure of merit in SnSe crystals. <i>Nature</i> , 2014 , 508, 373-7 | 50.4 | 3074 |
| 495 | Cubic AgPb(m)SbTe(2+m): bulk thermoelectric materials with high figure of merit. <i>Science</i> , 2004 , 303, 818-21 | 33.3 | 2481 |
| 494 | Copper ion liquid-like thermoelectrics. <i>Nature Materials</i> , 2012 , 11, 422-5 | 27 | 1339 |
| 493 | Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. <i>Science</i> , 2016 , 351, 141-4 | 33.3 | 1237 |
| 492 | Convergence of conduction bands as a means of enhancing thermoelectric performance of n-type Mg2Si(1-x)Sn(x) solid solutions. <i>Physical Review Letters</i> , 2012 , 108, 166601 | 7.4 | 854 |
| 491 | Strained endotaxial nanostructures with high thermoelectric figure of merit. <i>Nature Chemistry</i> , 2011 , 3, 160-6 | 17.6 | 794 |
| 490 | CsBi(4)Te(6): A high-performance thermoelectric material for low-temperature applications. <i>Science</i> , 2000 , 287, 1024-7 | 33.3 | 75 ¹ |
| 489 | Stretchable nanoparticle conductors with self-organized conductive pathways. <i>Nature</i> , 2013 , 500, 59-63 | 3 50.4 | 613 |
| 488 | All-scale hierarchical thermoelectrics: MgTe in PbTe facilitates valence band convergence and suppresses bipolar thermal transport for high performance. <i>Energy and Environmental Science</i> , 2013 , 6, 3346 | 35.4 | 532 |
| 487 | Transport properties of pure and doped MNiSn (M=Zr, Hf). <i>Physical Review B</i> , 1999 , 59, 8615-8621 | 3.3 | 507 |
| 486 | High thermoelectric performance of p-type SnTe via a synergistic band engineering and nanostructuring approach. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7006-17 | 16.4 | 425 |
| 485 | High Performance Thermoelectricity in Earth-Abundant Compounds Based on Natural Mineral Tetrahedrites. <i>Advanced Energy Materials</i> , 2013 , 3, 342-348 | 21.8 | 395 |
| 484 | Anomalous barium filling fraction and n-type thermoelectric performance of BayCo4Sb12. <i>Journal of Applied Physics</i> , 2001 , 90, 1864-1868 | 2.5 | 390 |
| 483 | Spinodal decomposition and nucleation and growth as a means to bulk nanostructured thermoelectrics: enhanced performance in Pb(1-x)Sn(x)Te-PbS. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9780-8 | 16.4 | 385 |
| 482 | Non-equilibrium processing leads to record high thermoelectric figure of merit in PbTe-SrTe. <i>Nature Communications</i> , 2016 , 7, 12167 | 17.4 | 377 |
| 481 | Low thermal conductivity and high thermoelectric figure of merit in n-type BaxYbyCo4Sb12 double-filled skutterudites. <i>Applied Physics Letters</i> , 2008 , 92, 182101 | 3.4 | 334 |
| 480 | Broad temperature plateau for high ZTs in heavily doped p-type SnSe single crystals. <i>Energy and Environmental Science</i> , 2016 , 9, 454-460 | 35.4 | 331 |

| 479 | Cerium filling and doping of cobalt triantimonide. <i>Physical Review B</i> , 1997 , 56, 7376-7383 | 3.3 | 328 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|
| 478 | Ultrahigh thermoelectric performance by electron and phonon critical scattering in Cu2 Se1-x Ix. <i>Advanced Materials</i> , 2013 , 25, 6607-12 | 24 | 319 |
| 477 | Effects of partial substitution of Ni by Pd on the thermoelectric properties of ZrNiSn-based half-Heusler compounds. <i>Applied Physics Letters</i> , 2001 , 79, 4165-4167 | 3.4 | 316 |
| 476 | Codoping in SnTe: Enhancement of Thermoelectric Performance through Synergy of Resonance Levels and Band Convergence. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5100-12 | 16.4 | 310 |
| 475 | Nanostructuring and High Thermoelectric Efficiency in p-Type Ag(Pb1 lySny)mSbTe2 + m. <i>Advanced Materials</i> , 2006 , 18, 1170-1173 | 24 | 303 |
| 474 | Recent advances in high-performance bulk thermoelectric materials. <i>International Materials Reviews</i> , 2016 , 61, 379-415 | 16.1 | 302 |
| 473 | Structure and Lattice Thermal Conductivity of Fractionally Filled Skutterudites: Solid Solutions of Fully Filled and Unfilled End Members. <i>Physical Review Letters</i> , 1998 , 80, 3551-3554 | 7.4 | 301 |
| 472 | Low-temperature transport properties of p-type CoSb3. <i>Physical Review B</i> , 1995 , 51, 9622-9628 | 3.3 | 298 |
| 471 | On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory Experiment perspective. <i>Npj Computational Materials</i> , 2016 , 2, | 10.9 | 290 |
| 470 | Valence Band Modification and High Thermoelectric Performance in SnTe Heavily Alloyed with MnTe. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11507-16 | 16.4 | 289 |
| 469 | High performance Na-doped PbTe-PbS thermoelectric materials: electronic density of states modification and shape-controlled nanostructures. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16588-97 | 16.4 | 289 |
| 468 | High performance InxCeyCo4Sb12 thermoelectric materials with in situ forming nanostructured InSb phase. <i>Applied Physics Letters</i> , 2009 , 94, 102114 | 3.4 | 285 |
| 467 | High thermoelectric performance via hierarchical compositionally alloyed nanostructures. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7364-70 | 16.4 | 281 |
| 466 | Extraordinary role of Hg in enhancing the thermoelectric performance of p-type SnTe. <i>Energy and Environmental Science</i> , 2015 , 8, 267-277 | 35.4 | 279 |
| 465 | Chapter 5 Skutterudites: Prospective novel thermoelectrics. <i>Semiconductors and Semimetals</i> , 2001 , 69, 139-253 | 0.6 | 269 |
| 464 | Origin of the high performance in GeTe-based thermoelectric materials upon Bi2Te3 doping. Journal of the American Chemical Society, 2014 , 136, 11412-9 | 16.4 | 259 |
| 463 | Self-propagating high-temperature synthesis for compound thermoelectrics and new criterion for combustion processing. <i>Nature Communications</i> , 2014 , 5, 4908 | 17.4 | 243 |
| 462 | Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2015 , 5, 1401. | 3 3 1.8 | 232 |

| 461 | Thermoelectric Devices for Power Generation: Recent Progress and Future Challenges . <i>Advanced Engineering Materials</i> , 2016 , 18, 194-213 | 3.5 | 218 |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|
| 460 | A Facile Hydrothermal Synthesis of Iron Oxide Nanoparticles with Tunable Magnetic Properties. Journal of Physical Chemistry C, 2009 , 113, 13593-13599 | 3.8 | 215 |
| 459 | Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2366-73 | 16.4 | 213 |
| 458 | High-performance pseudocubic thermoelectric materials from non-cubic chalcopyrite compounds. <i>Advanced Materials</i> , 2014 , 26, 3848-53 | 24 | 211 |
| 457 | Low-temperature transport properties of the filled skutterudites CeFe4\(\mathbb{B}\) Cox Sb12s. <i>Physical Review B</i> , 1997 , 55, 1476-1480 | 3.3 | 211 |
| 456 | Thermoelectric properties of Ag-doped Cu2Se and Cu2Te. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 124 | 1718; | 210 |
| 455 | Thermoelectric properties of the n-type filled skutterudite Ba0.3Co4Sb12 doped with Ni. <i>Journal of Applied Physics</i> , 2002 , 91, 3698-3705 | 2.5 | 208 |
| 454 | Partial indium solubility induces chemical stability and colossal thermoelectric figure of merit in Cu2Se. <i>Energy and Environmental Science</i> , 2017 , 10, 1668-1676 | 35.4 | 207 |
| 453 | Rhombohedral to Cubic Conversion of GeTe via MnTe Alloying Leads to Ultralow Thermal Conductivity, Electronic Band Convergence, and High Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2673-2686 | 16.4 | 206 |
| 452 | Simultaneous large enhancements in thermopower and electrical conductivity of bulk nanostructured half-Heusler alloys. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18843-52 | 16.4 | 205 |
| 451 | Large enhancements in the thermoelectric power factor of bulk PbTe at high temperature by synergistic nanostructuring. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8618-22 | 16.4 | 203 |
| 45 ⁰ | Thermal transport properties of YBa2Cu. <i>Physical Review B</i> , 1987 , 36, 5680-5683 | 3.3 | 202 |
| 449 | Thermoelectrics with earth abundant elements: high performance p-type PbS nanostructured with SrS and CaS. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7902-12 | 16.4 | 197 |
| 448 | Magnetic anisotropy in epitaxial Co superlattices. <i>Physical Review B</i> , 1990 , 42, 1066-1069 | 3.3 | 191 |
| 447 | Multi-Scale Microstructural Thermoelectric Materials: Transport Behavior, Non-Equilibrium Preparation, and Applications. <i>Advanced Materials</i> , 2017 , 29, 1602013 | 24 | 182 |
| 446 | Realizing a thermoelectric conversion efficiency of 12% in bismuth telluride/skutterudite segmented modules through full-parameter optimization and energy-loss minimized integration. <i>Energy and Environmental Science</i> , 2017 , 10, 956-963 | 35.4 | 181 |
| 445 | Transport Properties of Bi2S3 and the Ternary Bismuth Sulfides KBi6.33S10 and K2Bi8S13. <i>Chemistry of Materials</i> , 1997 , 9, 1655-1658 | 9.6 | 181 |
| 444 | Nanostructures versus solid solutions: low lattice thermal conductivity and enhanced thermoelectric figure of merit in Pb9.6Sb0.2Te10-xSex bulk materials. <i>Journal of the American Chemical Society</i> 2006 128 14347-55 | 16.4 | 173 |

| 443 | High pressure properties of graphite and its intercalation compounds. Advances in Physics, 1984, 33, 469 | 9158646 | 166 |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|
| 442 | Strong Reduction of Thermal Conductivity in Nanostructured PbTe Prepared by Matrix Encapsulation. <i>Chemistry of Materials</i> , 2006 , 18, 4993-4995 | 9.6 | 164 |
| 441 | Ultrahigh Thermoelectric Performance in Mosaic Crystals. Advanced Materials, 2015, 27, 3639-44 | 24 | 163 |
| 440 | A new thermoelectric material: CsBi4Te6. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6414-28 | 16.4 | 157 |
| 439 | High temperature Seebeck coefficient metrology. <i>Journal of Applied Physics</i> , 2010 , 108, 121101 | 2.5 | 156 |
| 438 | High thermoelectric performance in Bi0.46Sb1.54Te3 nanostructured with ZnTe. <i>Energy and Environmental Science</i> , 2018 , 11, 1520-1535 | 35.4 | 155 |
| 437 | Thermal conductivity of a metal-organic framework (MOF-5): Part II. Measurement. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 405-411 | 4.9 | 154 |
| 436 | High thermoelectric figure of merit in nanostructured p-type PbTeMTe (M = Ca, Ba). <i>Energy and Environmental Science</i> , 2011 , 4, 4675 | 35.4 | 153 |
| 435 | Exploring resonance levels and nanostructuring in the PbTe-CdTe system and enhancement of the thermoelectric figure of merit. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5227-35 | 16.4 | 153 |
| 434 | High Thermopower and Low Thermal Conductivity in Semiconducting Ternary K B iBe Compounds. Synthesis and Properties of 既2Bi8Se13 and K2.5Bi8.5Se14 and Their Sb Analogues. <i>Chemistry of Materials</i> , 1997 , 9, 3060-3071 | 9.6 | 138 |
| 433 | Thermal conductivity of high-T c superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1990 , 3, 337-389 | | 137 |
| 432 | Effect of Sn substituting for Sb on the low-temperature transport properties of ytterbium-filled skutterudites. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 135 |
| 431 | Phase transitions of Dirac electrons in bismuth. <i>Science</i> , 2008 , 321, 547-50 | 33.3 | 134 |
| 430 | Entropy as a Gene-Like Performance Indicator Promoting Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1702712 | 24 | 130 |
| 429 | Optimized Thermoelectric Properties of Sb-Doped Mg2(1+z)Si0.5 \(\bar{y}\)Sn0.5 Sby through Adjustment of the Mg Content. <i>Chemistry of Materials</i> , 2011 , 23, 5256-5263 | 9.6 | 127 |
| 428 | Thermoelectric properties of Bi2O2Se. <i>Materials Chemistry and Physics</i> , 2010 , 119, 299-302 | 4.4 | 122 |
| 427 | Fourier-transform inelastic X-ray scattering from time- and momentum-dependent phonon phonon correlations. <i>Nature Physics</i> , 2013 , 9, 790-794 | 16.2 | 118 |
| 426 | SnTeAgBiTe2 as an efficient thermoelectric material with low thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20849-20854 | 13 | 117 |

| 425 | Rapid preparation method of bulk nanostructured Yb0.3Co4Sb12+y compounds and their improved thermoelectric performance. <i>Applied Physics Letters</i> , 2008 , 93, 252109 | 3.4 | 116 |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|
| 424 | Epitaxial Co-Au superlattices. <i>Physical Review Letters</i> , 1989 , 62, 653-656 | 7.4 | 116 |
| 423 | Rapid synthesis of high thermoelectric performance higher manganese silicide with in-situ formed nano-phase of MnSi. <i>Intermetallics</i> , 2011 , 19, 404-408 | 3.5 | 113 |
| 422 | Diluted magnetic semiconductors based on Sb2⊠VxTe3 (0.01. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 113 |
| 421 | Synthesis and Thermoelectric Properties of the New Ternary Bismuth Sulfides KBi6.33S10 and K2Bi8S13. <i>Chemistry of Materials</i> , 1996 , 8, 1465-1474 | 9.6 | 113 |
| 420 | Enhanced thermoelectric properties of n-type Mg2.16(Si0.4Sn0.6)1 Sby due to nano-sized Sn-rich precipitates and an optimized electron concentration. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13653 | | 112 |
| 419 | High figure of merit and thermoelectric properties of Bi-doped Mg2Si0.4Sn0.6 solid solutions. Journal of Solid State Chemistry, 2013 , 203, 333-339 | 3.3 | 108 |
| 418 | The Role of Zn in Chalcopyrite CuFeS2: Enhanced Thermoelectric Properties of Cu1\(\textbf{Z}\) Tn Situ Nanoprecipitates. <i>Advanced Energy Materials</i> , 2017 , 7, 1601299 | 21.8 | 107 |
| 417 | Morphology transition and layer-by-layer growth of Rh(111). <i>Physical Review Letters</i> , 1996 , 76, 3164-31 | 6₹. ₄ | 105 |
| 416 | Concerted Rattling in CsAg5 Te3 Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11431-6 | 16.4 | 105 |
| 415 | Conduction band splitting and transport properties of Bi2Se3. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1704-1712 | 3.3 | 103 |
| 414 | Structure and Transport Properties of Double-Doped CoSb2.75Ge0.25\(\mathbb{N}\)Tex (x = 0.125\(\mathbb{D}\).20) with in Situ Nanostructure. <i>Chemistry of Materials</i> , 2011 , 23, 2948-2955 | 9.6 | 102 |
| 413 | Thermal conductivity in BiSbTe and the role of dense dislocation arrays at grain boundaries. <i>Science Advances</i> , 2018 , 4, eaar5606 | 14.3 | 102 |
| 412 | In situ synthesis and thermoelectric properties of PbTegraphene nanocomposites by utilizing a facile and novel wet chemical method. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12503 | 13 | 101 |
| 411 | Highly anisotropic P3HT films with enhanced thermoelectric performance via organic small molecule epitaxy. <i>NPG Asia Materials</i> , 2016 , 8, e292-e292 | 10.3 | 101 |
| 410 | Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018 , 9, 2910 | 17.4 | 97 |
| 409 | High thermoelectric performance of mechanically robust n-type Bi2Te3⊠Sex prepared by combustion synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6603-6613 | 13 | 97 |
| 408 | Enhanced Figure-of-Merit in Se-Doped p-Type AgSbTe2 Thermoelectric Compound. <i>Chemistry of Materials</i> , 2010 , 22, 5521-5527 | 9.6 | 97 |

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| 407 | In situ nanostructure generation and evolution within a bulk thermoelectric material to reduce lattice thermal conductivity. <i>Nano Letters</i> , 2010 , 10, 2825-31 | 11.5 | 95 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 406 | Advanced thermoelectrics governed by a single parabolic band: Mg2Si(0.3)Sn(0.7), a canonical example. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6893-7 | 3.6 | 93 |
| 405 | Large enhancements of thermopower and carrier mobility in quantum dot engineered bulk semiconductors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7486-95 | 16.4 | 93 |
| 404 | Thermoelectric performance of films in the bismuth-tellurium and antimony-tellurium systems. <i>Journal of Applied Physics</i> , 2005 , 97, 114903 | 2.5 | 92 |
| 403 | Femtosecond optical absorption studies of nonequilibrium electronic processes in high Tc superconductors. <i>Applied Physics Letters</i> , 1990 , 57, 1696-1698 | 3.4 | 92 |
| 402 | High Thermoelectric Performance in SnTeAgSbTe2 Alloys from Lattice Softening, Giant Phonon Vacancy Scattering, and Valence Band Convergence. <i>ACS Energy Letters</i> , 2018 , 3, 705-712 | 20.1 | 90 |
| 401 | High thermoelectric performance of p-BiSbTe compounds prepared by ultra-fast thermally induced reaction. <i>Energy and Environmental Science</i> , 2017 , 10, 2638-2652 | 35.4 | 90 |
| 400 | Iron valence in skutterudites: Transport and magnetic properties of Co1 \square FexSb3. <i>Physical Review B</i> , 2000 , 63, | 3.3 | 90 |
| 399 | High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. <i>Advanced Functional Materials</i> , 2016 , 26, 8435-8445 | 15.6 | 89 |
| 398 | Subtle Roles of Sb and S in Regulating the Thermoelectric Properties of N-Type PbTe to High Performance. <i>Advanced Energy Materials</i> , 2017 , 7, 1700099 | 21.8 | 88 |
| 397 | Structure and Thermoelectric Properties of Ba6Ge25N, Ba6Ge23Sn2, and Ba6Ge22In3: Zintl Phases with a Chiral Clathrate Structure. <i>Journal of Solid State Chemistry</i> , 2000 , 153, 321-329 | 3.3 | 87 |
| 396 | Low-temperature ferromagnetic properties of the diluted magnetic semiconductor Sb2\(\mathbb{Q}\)CrxTe3. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 86 |
| 395 | Rapid preparation of CeFe4Sb12 skutterudite by melt spinning: rich nanostructures and high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12657 | 13 | 85 |
| 394 | p-Type skutterudites RxMyFe3CoSb12 (R, MI=IBa, Ce, Nd, and Yb): Effectiveness of double-filling for the lattice thermal conductivity reduction. <i>Intermetallics</i> , 2011 , 19, 1747-1751 | 3.5 | 84 |
| 393 | Electronic transport in highly-doped La2-xSrxCuO4 superconductors. <i>Physical Review B</i> , 1987 , 36, 5676- | 5639 | 84 |
| 392 | Subpicosecond time-resolved studies of coherent phonon oscillations in thin-film YBa2Cu3O6+x (x. <i>Applied Physics Letters</i> , 1991 , 58, 980-982 | 3.4 | 83 |
| 391 | Multiscale calculations of thermoelectric properties of n-type Mg2Si1⊠Snx solid solutions. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 82 |
| 390 | Theoretical analysis of the thermal conductivity of YBa2Cu3O7- delta single crystals. <i>Physical Review B</i> , 1991 , 44, 9508-9513 | 3.3 | 82 |

| 389 | Apparatus for Seebeck coefficient and electrical resistivity measurements of bulk thermoelectric materials at high temperature. <i>Review of Scientific Instruments</i> , 2005 , 76, 023901 | 1.7 | 81 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|
| 388 | Ultra-fast synthesis and thermoelectric properties of Te doped skutterudites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17914-17918 | 13 | 78 |
| 387 | Influence of electron-phonon interaction on the lattice thermal conductivity of Co1⊠NixSb3. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 77 |
| 386 | High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. <i>Energy and Environmental Science</i> , 2019 , 12, 3390-3399 | 35.4 | 77 |
| 385 | Contrasting role of antimony and bismuth dopants on the thermoelectric performance of lead selenide. <i>Nature Communications</i> , 2014 , 5, 3640 | 17.4 | 76 |
| 384 | Enhanced thermoelectric properties of Ba-filled skutterudites by grain size reduction and Ag nanoparticle inclusion. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2958-2964 | | 76 |
| 383 | Soft phonon modes from off-center Ge atoms lead to ultralow thermal conductivity and superior thermoelectric performance in n-type PbSetese. <i>Energy and Environmental Science</i> , 2018 , 11, 3220-323 | o ^{35.4} | 75 |
| 382 | Effect of Ni on the transport and magnetic properties of Co1\(\text{NixSb3}. \(\text{Physical Review B}, \text{ 2002}, 65, \) | 3.3 | 75 |
| 381 | Weak Electron Phonon Coupling and Deep Level Impurity for High Thermoelectric Performance Pb1 GaxTe. <i>Advanced Energy Materials</i> , 2018 , 8, 1800659 | 21.8 | 75 |
| 380 | Manipulating the Combustion Wave during Self-Propagating Synthesis for High Thermoelectric Performance of Layered Oxychalcogenide Bi1\(\text{\textit{B}PbxCuSeO}. \) Chemistry of Materials, 2016 , 28, 4628-4640 | 9.6 | 71 |
| 379 | Substitution of Bi for Sb and its Role in the Thermoelectric Properties and Nanostructuring in Ag1 \square Pb18MTe20 (M = Bi, Sb) (x = 0, 0.14, 0.3). <i>Chemistry of Materials</i> , 2008 , 20, 3512-3520 | 9.6 | 71 |
| 378 | Thin film dilute ferromagnetic semiconductors Sb2\(\mathbb{R}\)CrxTe3 with a Curie temperature up to 190K. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 70 |
| 377 | High Thermoelectric Performance in Supersaturated Solid Solutions and Nanostructured n-Type PbTe L eTe. <i>Advanced Functional Materials</i> , 2018 , 28, 1801617 | 15.6 | 69 |
| 376 | Transport and mechanical properties of Yb-filled skutterudites. <i>Philosophical Magazine</i> , 2009 , 89, 1517- | 1 <u>5.</u> 84 | 69 |
| 375 | Ultralow thermal conductivity of 町u2Se by atomic fluidity and structure distortion. <i>Acta Materialia</i> , 2015 , 86, 247-253 | 8.4 | 67 |
| 374 | Improvement in the Thermoelectric Figure of Merit by La/Ag Cosubstitution in PbTe. <i>Chemistry of Materials</i> , 2009 , 21, 1361-1367 | 9.6 | 66 |
| 373 | Structure-transformation-induced abnormal thermoelectric properties in semiconductor copper selenide. <i>Materials Letters</i> , 2013 , 93, 121-124 | 3.3 | 65 |
| 372 | High thermoelectric figure of merit and nanostructuring in bulk AgSbTe2. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6138 | | 65 |

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| 371 | Cr2Ge2Te6: High Thermoelectric Performance from Layered Structure with High Symmetry. <i>Chemistry of Materials</i> , 2016 , 28, 1611-1615 | 9.6 | 64 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 370 | 3D Printing of highly textured bulk thermoelectric materials: mechanically robust BiSbTe alloys with superior performance. <i>Energy and Environmental Science</i> , 2019 , 12, 3106-3117 | 35.4 | 64 |
| 369 | Ba4In8Sb16: Thermoelectric Properties of a New Layered Zintl Phase with Infinite Zigzag Sb Chains and Pentagonal Tubes. <i>Chemistry of Materials</i> , 1999 , 11, 3154-3159 | 9.6 | 63 |
| 368 | Enhanced ZT and attempts to chemically stabilize Cu2Se via Sn doping. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17225-17235 | 13 | 62 |
| 367 | All-Scale Hierarchically Structured p-Type PbSe Alloys with High Thermoelectric Performance Enabled by Improved Band Degeneracy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4480-4486 | 16.4 | 62 |
| 366 | Influence of point-defect scattering on the lattice thermal conductivity of solid solution Co(Sb1\(\text{NAsx}\)3. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 61 |
| 365 | Large magnetothermopower in La0.67Ca0.33MnO3 films. <i>Physical Review B</i> , 1996 , 53, 5094-5097 | 3.3 | 60 |
| 364 | Separation of the Electronic and Lattice Thermal Conductivities in Bismuth Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1974 , 65, 765-772 | 1.3 | 60 |
| 363 | Chemical Insights into PbSe- x%HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18115-18123 | 16.4 | 60 |
| 362 | Low effective mass and carrier concentration optimization for high performance p-type Mg2(1-x)Li2xSi0.3Sn0.7 solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23576-83 | 3.6 | 59 |
| 361 | Thermal and electronic charge transport in bulk nanostructured Zr0.25Hf0.75NiSn composites with full-Heusler inclusions. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2948-2960 | 3.3 | 59 |
| 3 60 | Low-temperature characterization and micropatterning of coevaporated Bi2Te3 and Sb2Te3 films. Journal of Applied Physics, 2008 , 104, 113710 | 2.5 | 57 |
| 359 | Langevin-like giant magnetoresistance in Co-Cu superlattices. <i>Physical Review B</i> , 1994 , 49, 1521-1523 | 3.3 | 57 |
| 358 | Pressure dependence of the c-axis resistivity of graphite. <i>Physical Review B</i> , 1987 , 35, 4483-4488 | 3.3 | 57 |
| 357 | Influence of fullerene dispersion on high temperature thermoelectric properties of BayCo4Sb12-based composites. <i>Journal of Applied Physics</i> , 2007 , 102, 103709 | 2.5 | 56 |
| 356 | Phase separation of full-Heusler nanostructures in half-Heusler thermoelectrics and vibrational properties from first-principles calculations. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 55 |
| 355 | Microstructure and thermoelectric properties of CoSb2.75Ge0.25\(\mathbb{B}\)Tex prepared by rapid solidification. <i>Acta Materialia</i> , 2012 , 60, 3536-3544 | 8.4 | 55 |
| 354 | Theoretical study of the filling fraction limits for impurities in CoSb3. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 55 |

| 353 | Ultra-high average figure of merit in synergistic band engineered SnxNa1⊠Se0.9S0.1 single crystals. <i>Materials Today</i> , 2018 , 21, 501-507 | 21.8 | 55 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|
| 352 | Sodium-Doped Tin Sulfide Single Crystal: A Nontoxic Earth-Abundant Material with High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800087 | 21.8 | 54 |
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