# Jian He

List of Publications by Year
in descending order



| 129 | 8,114 | 57758 | 49909 |
|---|---|---|---|
| papers | citations | 44 h-index | 87 g-index |

| 131 | 131 | 131 | 7085 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multi-Principal-Element Approach to High-Performance Thermoelectric Materials. , 2022, , 491-499. | | 1 |
| 2 | Tracking the sliding of grain boundaries at the atomic scale. Science, 2022, 375, 1261-1265. | 12.6 | 115 |
| 3 | Structural Modularization of Cu<sub>2</sub>Te Leading to High Thermoelectric Performance near the Mottâ€“Ioffeâ€“Regel Limit. Advanced Materials, 2022, 34, e2108573. | 21.0 | 20 |
| 4 | Crystal symmetry enables high thermoelectric performance of rhombohedral GeSe(MnCdTe2). Nano Energy, 2022, 100, 107434. | 16.0 | 16 |
| 5 | Roomâ€temperature plastic inorganic semiconductors for flexible and deformable electronics. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 22-35. | 17.3 | 55 |
| 6 | Enhancing thermoelectric performance of Sn1-Sb2/3Te via synergistic charge balanced compensation doping. Chemical Engineering Journal, 2021, 404, 126925. | 12.7 | 16 |
| 7 | Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe. Advanced Materials, 2021, 33, e2005612. | 21.0 | 52 |
| 8 | Thermopower and harvesting heat. Science, 2021, 371, 343-344. | 12.6 | 80 |
| 9 | Thermoelectric Materials: Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe (Adv. Mater. 1/2021). Advanced Materials, 2021, 33, 2170008. | 21.0 | 6 |
| 10 | Atomicâ€Scale Visualization and Quantification of Configurational Entropy in Relation to Thermal Conductivity: A Proofâ€ofâ€Principle Study in tâ€GeSb<sub>2</sub>Te<sub>4</sub>. Advanced Science, 2021, 8, 2002051. | 11.2 | 16 |
| 11 | Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. Joule, 2021, 5, 1183-1195. | 24.0 | 27 |
| 12 | Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal Mg2Pb for cryogenic heat pumping. Nature Communications, 2021, 12, 3837. | 12.8 | 24 |
| 13 | (GeTe)<sub>1â€“x</sub>(AgSnSe<sub>2</sub>)<sub>x</sub>: Strong Atomic Disorder-Induced High Thermoelectric Performance near the Ioffeâ€“Regel Limit. ACS Applied Materials & Interfaces, 2021, 13, 47081-47089. | 8.0 | 22 |
| 14 | Fast ion transport for synthesis and stabilization of Î²-Zn4Sb3. Nature Communications, 2021, 12, 6077. | 12.8 | 9 |
| 15 | Conformal organicâ€“inorganic semiconductor composites for flexible thermoelectrics. Energy and Environmental Science, 2020, 13, 511-518. | 30.8 | 67 |
| 16 | Optimizing thermoelectric properties of BiSe through Cu additive enhanced effective mass and phonon scattering. Rare Metals, 2020, 39, 1374-1382. | 7.1 | 33 |
| 17 | Insights into the Proton Transport Mechanism in TiO<sub>2</sub> Simple Oxides by In Situ Raman Spectroscopy. ACS Applied Materials & Interfaces, 2020, 12, 38012-38018. | 8.0 | 22 |
| 18 | Direct visualization of spatially correlated displacive short-range ordering in Nb<sub>0.8</sub>CoSb. Nanoscale, 2020, 12, 21624-21628. | 5.6 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. Science, 2020, 369, 542-545. | 12.6 | 163 |
| 20 | Strain-Induced Ultrahigh Electron Mobility and Thermoelectric Figure of Merit in Monolayer Î±-Te. ACS Applied Materials & Interfaces, 2020, 12, 43901-43910. | 8.0 | 36 |
| 21 | Origin of the Distinct Thermoelectric Transport Properties of Chalcopyrite ABTe<sub>2</sub> (A) Tj ETQq1 1 0.784314 rgBT /Overloc | 14.9 | 50 |
| 22 | Leveraging Deep Levels in Narrow Bandgap Bi<sub>0.5</sub>Sb<sub>1.5</sub>Te<sub>3</sub> for Recordâ€High zT<sub>ave</sub> Near Room Temperature. Advanced Functional Materials, 2020, 30, 2005202. | 14.9 | 57 |
| 23 | n-Bi<sub>2â€“x</sub>Sb<sub>x</sub>Te<sub>3</sub>: A Promising Alternative to Mainstream Thermoelectric Material n-Bi<sub>2</sub>Te<sub>3â€“x</sub>Se<sub>x</sub> near Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 31619-31627. | 8.0 | 33 |
| 24 | High Thermoelectric Performance in Sulfideâ€Type Argyrodites Compound Ag<sub>8</sub>Sn(S<sub>1â€™</sub><sub>x</sub>Se<sub>x</sub>)<sub>6</sub> Enabled by Ultralow Lattice Thermal Conductivity and Extended Cubic Phase Regime. Advanced Functional Materials, 2020, 30, 2000526. | 14.9 | 38 |
| 25 | Thermal transport in phase-stabilized lithium zirconate phosphates. Applied Physics Letters, 2020, 117, 011903. | 3.3 | 3 |
| 26 | Novel synthesis recipes boosting thermoelectric study of A2Q (Aâ€‰â€‰=â€‰â€‰Cu, Ag; Qâ€‰â€‰=â€‰â€‰S, Se, Te). Journal D: Applied Physics, 2020, 53, 193001. | 2.8 | 12 |
| 27 | Thermodynamic Routes to Ultralow Thermal Conductivity and High Thermoelectric Performance. Advanced Materials, 2020, 32, e1906457. | 21.0 | 71 |
| 28 | Highly charged interface trap states in PbS1â€™x govern electro-thermal transport. APL Materials, 2019, 7, 071105. | 5.1 | 2 |
| 29 | Designing Environmentally Friendly High-zT Zn<sub>4</sub>Sb<sub>3</sub> via Thermodynamic Routes. ACS Applied Energy Materials, 2019, 2, 7564-7571. | 5.1 | 15 |
| 30 | Flexible thermoelectrics: from silver chalcogenides to full-inorganic devices. Energy and Environmental Science, 2019, 12, 2983-2990. | 30.8 | 188 |
| 31 | Phonon-limited carrier mobility and temperature-dependent scattering mechanism of 3C -SiC from first principles. Physical Review B, 2019, 99, . | 3.2 | 26 |
| 32 | Thermoelectric Figure-of-Merit of Fully Dense Single-Crystalline SnSe. ACS Omega, 2019, 4, 5442-5450. | 3.5 | 40 |
| 33 | Flexible, auxetic and strain-tunable two dimensional penta-X<sub>2</sub>C family as water splitting photocatalysts with high carrier mobility. Journal of Materials Chemistry A, 2019, 7, 7791-7799. | 10.3 | 66 |
| 34 | Improving thermoelectric performance of (Bi0.2Sb0.8)2(Te0.97Se0.03)3 via Sm-doping. Journal of Alloys and Compounds, 2019, 787, 909-917. | 5.5 | 7 |
| 35 | High-Temperature Structural and Thermoelectric Study of Argyrodite Ag<sub>8</sub>GeSe<sub>6</sub>. ACS Applied Materials & Interfaces, 2019, 11, 2168-2176. | 8.0 | 51 |
| 36 | Theoretical investigations of electrical transport properties in CoSb3 skutterudites under hydrostatic loadings. Rare Metals, 2018, 37, 316-325. | 7.1 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Sub-50 picosecond to microsecond carrier transport dynamics in pentacene thin films. Applied Physics Letters, 2018, 113, 183509. | 3.3 | 8 |
| 38 | Entropy Engineering of SnTe: Multiâ€Principalâ€Element Alloying Leading to Ultralow Lattice Thermal Conductivity and Stateâ€ofâ€theâ€Art Thermoelectric Performance. Advanced Energy Materials, 2018, 8, 1802116. | 19.5 | 157 |
| 39 | Recent advances in inorganic material thermoelectrics. Inorganic Chemistry Frontiers, 2018, 5, 2380-2398. | 6.0 | 63 |
| 40 | Synergistic Compositionalâ€“Mechanicalâ€“Thermal Effects Leading to a Record High zT in nâ€Type V<sub>2</sub>VI<sub>3</sub> Alloys Through Progressive Hot Deformation. Advanced Functional Materials, 2018, 28, 1803617. | 14.9 | 73 |
| 41 | Bulk Hexagonal Boron Nitride with a Quasiâ€Isotropic Thermal Conductivity. Advanced Functional Materials, 2018, 28, 1707556. | 14.9 | 78 |
| 42 | Electronic and magnetic properties of pristine and hydrogenated borophene nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 106-112. | 2.7 | 60 |
| 43 | Ga-substituted Li7La3Zr2O12: An investigation based on grain coarsening in garnet-type lithium ion conductors. Journal of Alloys and Compounds, 2017, 695, 3744-3752. | 5.5 | 79 |
| 44 | Advances in thermoelectric materials research: Looking back and moving forward. Science, 2017, 357, . | 12.6 | 1,613 |
| 45 | Facile room temperature solventless synthesis of high thermoelectric performance Ag<sub>2</sub>Se via a dissociative adsorption reaction. Journal of Materials Chemistry A, 2017, 5, 23243-23251. | 10.3 | 79 |
| 46 | Effects of partial La filling and Sb vacancy defects on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CoS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> skutterudites. Physical Review B, 2017, 95, . | 3.2 | 26 |
| 47 | High thermoelectric figure of merit by resonant dopant in half-Heusler alloys. AIP Advances, 2017, 7, . | 1.3 | 41 |
| 48 | High temperature thermoelectric properties of skutterudite-Bi2Te3 nanocomposites. Intermetallics, 2016, 76, 33-40. | 3.9 | 10 |
| 49 | Labelâ€Free and Continuousâ€Flow Ferrohydrodynamic Separation of HeLa Cells and Blood Cells in Biocompatible Ferrofluids. Advanced Functional Materials, 2016, 26, 3990-3998. | 14.9 | 77 |
| 50 | Mechanochemical synthesis of high thermoelectric performance bulk Cu2X (X = S, Se) materials. APL Materials, 2016, 4, . | 5.1 | 30 |
| 51 | Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. NPG Asia Materials, 2016, 8, e302-e302. | 7.9 | 119 |
| 52 | Synergistic effects of Lanthanum substitution on enhancing the thermoelectric properties of Î²-Zn4Sb3. Journal of Materiomics, 2016, 2, 273-279. | 5.7 | 3 |
| 53 | Enhancing the thermoelectric performance of nanosized CoSb<sub>3</sub>via short-range percolation of electrically conductive WTe<sub>2</sub> inclusions. Journal of Materials Chemistry A, 2016, 4, 13874-13880. | 10.3 | 38 |
| 54 | New Insights into Intrinsic Point Defects in V<sub>2</sub>VI<sub>3</sub> Thermoelectric Materials. Advanced Science, 2016, 3, 1600004. | 11.2 | 317 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Manipulating the Combustion Wave during Self-Propagating Synthesis for High Thermoelectric Performance of Layered Oxychalcogenide Bi<sub>1â€“x</sub>Pb<sub>x</sub>CuSeO. Chemistry of Materials, 2016, 28, 4628-4640. | 6.7 | 88 |
| 56 | Towards higher thermoelectric performance of Bi2Te3 via defect engineering. Scripta Materialia, 2016, 111, 39-43. | 5.2 | 100 |
| 57 | Enhancing Thermoelectric Properties of Si80Ge20 Alloys Utilizing the Decomposition of NaBH4 in the Spark Plasma Sintering Process. Energies, 2015, 8, 10958-10970. | 3.1 | 7 |
| 58 | Synthesis and superconductivity in spark plasma sintered pristine and graphene-doped FeSe0.5Te0.5. Nanotechnology Reviews, 2015, 4, . | 5.8 | 3 |
| 59 | Toward high thermoelectric performance p-type FeSb<sub>2.2</sub>Te<sub>0.8</sub>via in situ formation of InSb nanoinclusions. Journal of Materials Chemistry C, 2015, 3, 8372-8380. | 5.5 | 33 |
| 60 | Spark-plasma-sintered barium zirconate based proton conductors for solid oxide fuel cell and hydrogen separation applications. International Journal of Hydrogen Energy, 2015, 40, 5707-5714. | 7.1 | 23 |
| 61 | Thermoelectric power factor: Enhancement mechanisms and strategies for higher performance thermoelectric materials. Materials Science and Engineering Reports, 2015, 97, 1-22. | 31.8 | 311 |
| 62 | Hydrothermal synthesis, structure, and property characterization of rare earth silicate compounds: NaBa3Ln3Si6O20 (LnÂ=ÂY, Nd, Sm, Eu, Gd). Solid State Sciences, 2015, 48, 256-262. | 3.2 | 12 |
| 63 | Magnetoelastic coupling in A2FeReO6 (A = Ba and Ca) probed by elastic constants and magnetostriction measurements. Journal of Applied Physics, 2015, 117, . | 2.5 | 2 |
| 64 | Qualifying the Role of Indium in the Multiple-Filled Ce0.1InxYb0.2Co4Sb12 Skutterudite. Inorganics, 2014, 2, 168-176. | 2.7 | 11 |
| 65 | Significant enhancement in thermoelectric properties of polycrystalline Pr-doped SrTiO3âˆ'Î´ ceramics originating from nonuniform distribution of Pr dopants. Applied Physics Letters, 2014, 104, . | 3.3 | 39 |
| 66 | Thermoelectric study of crossroads material MnTe via sulfur doping. Journal of Applied Physics, 2014, 115, . | 2.5 | 53 |
| 67 | High Performance Mg<sub>2</sub>(Si,Sn) Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. Advanced Functional Materials, 2014, 24, 3776-3781. | 14.9 | 141 |
| 68 | A study of Yb<sub>0.2</sub>Co<sub>4</sub>Sb<sub>12</sub>â€“AgSbTe<sub>2</sub>nanocomposites: simultaneous enhancement of all three thermoelectric properties. Journal of Materials Chemistry A, 2014, 2, 7379. | 10.3 | 45 |
| 69 | Magnetic behavior of the sawtooth Fe chains in Rb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow | | |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Significant ZT enhancement in p-type Ti(Co,Fe)Sbâ€“InSb nanocomposites via a synergistic high-mobility electron injection, energy-filtering and boundary-scattering approach. Acta Materialia, 2013, 61, 2087-2094. | 7.9 | 87 |
| 74 | Preferential Scattering by Interfacial Charged Defects for Enhanced Thermoelectric Performance in Few-layered n-type Bi2Te3. Scientific Reports, 2013, 3, 3212. | 3.3 | 107 |
| 75 | Enhancement of Thermoelectric Performance of Ballâ€Milled Bismuth Due to Sparkâ€Plasmaâ€Sinteringâ€Induced Interface Modifications. Advanced Materials, 2013, 25, 1033-1037. | 21.0 | 35 |
| 76 | Hot deformation induced bulk nanostructuring of unidirectionally grown p-type (Bi,Sb)2Te3 thermoelectric materials. Journal of Materials Chemistry A, 2013, 1, 11589. | 10.3 | 110 |
| 77 | Improving p-type thermoelectric performance of Mg2(Ge,Sn) compounds via solid solution and Ag doping. Intermetallics, 2013, 32, 312-317. | 3.9 | 31 |
| 78 | Enhanced ferromagnetic order in Sr4Mn3O3(GeO4)3 featuring canted [MnO4] spin chains of mixed-valent Mn(III)/Mn(IV). Aliovalent substitution of the Sr4â^'LnMnIII2+MnIV1â^'O3(GeO4)3 solid-solution. Journal of Solid State Chemistry, 2013, 206, 51-59. | 2.9 | 2 |
| 79 | Monitoring pH-Triggered Drug Release from Radioluminescent Nanocapsules with X-ray Excited Optical Luminescence. ACS Nano, 2013, 7, 1178-1187. | 14.6 | 110 |
| 80 | High performance Bi2Te3 nanocomposites prepared by single-element-melt-spinning spark-plasma sintering. Journal of Materials Science, 2013, 48, 2745-2760. | 3.7 | 96 |
| 81 | LOW TEMPERATURE THERMOELECTRIC PROPERTIES AND AGING PHENOMENA OF NANOSTRUCTURED p-TYPE<font>Bi</font><sub>2-X</sub><font>Sb</font><sub>X</sub><font>Te</font><sub>3</sub>(x =) Tj ETQq1 1 0.784314 rgBT /( | | |
| 82 | The microstructure network and thermoelectric properties of bulk (Bi,Sb)2Te3. Applied Physics Letters, 2012, 101, . | 3.3 | 13 |
| 83 | Study on lattice dynamics of filled skutterudites InxYbyCo4Sb12. Journal of Applied Physics, 2012, 112, . | 2.5 | 14 |
| 84 | Thermoelectric properties and Kondo behavior in indium incorporated p-type Ce0.9Fe3.5Ni0.5Sb12 skutterudites. Journal of Applied Physics, 2012, 112, 033710. | 2.5 | 7 |
| 85 | Magnetic and optical properties of multifunctional coreâ€“shell radioluminescence nanoparticles. Journal of Materials Chemistry, 2012, 22, 12802. | 6.7 | 71 |
| 86 | Roles of interstitial Mg in improving thermoelectric properties of Sb-doped Mg2Si0.4Sn0.6 solid solutions. Journal of Materials Chemistry, 2012, 22, 6838. | 6.7 | 107 |
| 87 | Synthesis and Structure of Bismuth(III)-Containing Noncentrosymmetric Phosphates, Cs<sub>3</sub>KBi<sub>2</sub>M<sub>4</sub>(PO<sub>4</sub>)<sub>6</sub>Cl (M = Mn, Fe). Monoclinic (Cc) and Tetragonal (P4<sub>3</sub>) Polymorphs Templated by Chlorine-Centered Cl(Bi<sub>2</sub>Cs) Acentric Units. Inorganic Chemistry, 2012, 51, 9723-9729. | 4.0 | 5 |
| 88 | Fabrication and thermoelectric properties of Yb-doped ZrNiSn half-Heusler alloys. International Journal of Smart and Nano Materials, 2012, 3, 64-71. | 4.2 | 19 |
| 89 | Raman spectra of double-filled skutterudites InxYbyCo4Sb12. Procedia Engineering, 2012, 27, 121-127. | 1.2 | 11 |
| 90 | Significant improvement of thermoelectric performance in nanostructured bismuth networks. Nano Energy, 2012, 1, 706-713. | 16.0 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Spark Plasma Sintering: A Brief Survey of Recent Patents. Recent Patents on Materials Science, 2012, 5, 191-198. | 0.5 | 2 |
| 92 | Oxide thermoelectrics: The challenges, progress, and outlook. Journal of Materials Research, 2011, 26, 1762-1772. | 2.6 | 261 |
| 93 | Evidence for surface states in pristine and Co-doped ZnO nanostructures: magnetization and nonlinear optical studies. Nanotechnology, 2011, 22, 095703. | 2.6 | 24 |
| 94 | Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered (Bi,Sb)<sub>2</sub>Te<sub>3</sub> thermoelectric materials. Journal of Materials Research, 2011, 26, 1791-1799. | 2.6 | 58 |
| 95 | High-Temperature Thermoelectric Properties of Co4Sb12-Based Skutterudites with Multiple Filler Atoms: Ce0.1In x Yb y Co4Sb12. Journal of Electronic Materials, 2011, 40, 696-701. | 2.2 | 53 |
| 96 | Miscibility gap and thermoelectric properties of ecofriendly Mg<sub>2</sub>Si<sub>1â^'x</sub>Sn<sub>x</sub> (0.1 â‰¤ x â‰¤ 0.8) solid solutions by flux method. Journal of Materials Research, 2011, 26, 3038-3043. | 2.6 | 42 |
| 97 | ELECTRICAL TRANSPORT PROPERTIES OF SINGLE-WALLED CARBON NANOTUBE BUNDLES TREATED WITH BORIC ACID. Nano, 2011, 06, 337-341. | 1.0 | 4 |
| 98 | Improving Thermoelectric Performance of Pulverized <I>p</I>-Type Bi<SUB>2</SUB>Te<SUB>3</SUB> via a Grain Boundary Engineering Approach. Science of Advanced Materials, 2011, 3, 596-601. | 0.7 | 4 |
| 99 | Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb)<sub>2</sub>Te<sub>3</sub> Nanocomposites. Nano Letters, 2010, 10, 3283-3289. | 9.1 | 484 |
| 100 | Simultaneously optimizing the independent thermoelectric properties in (Ti,Zr,Hf)(Co,Ni)Sb alloy by in situ forming InSb nanoinclusions. Acta Materialia, 2010, 58, 4705-4713. | 7.9 | 99 |
| 101 | Inter-tube bonding, graphene formation and anisotropic transport properties in spark plasma sintered multi-wall carbon nanotube arrays. Carbon, 2010, 48, 756-762. | 10.3 | 56 |
| 102 | Spin Polarons in the Correlated Metallic PyrochloreCd2Re2O7. Physical Review Letters, 2010, 105, 076402. | 7.8 | 20 |
| 103 | Structure formation and very low thermal conductivity in Pb:Te:Ag:Se mixtures. Journal of Applied Physics, 2010, 107, 033519. | 2.5 | 2 |
| 104 | Tuning electrical and thermal connectivity in multiwalled carbon nanotube buckypaper. Journal of Physics Condensed Matter, 2010, 22, 334215. | 1.8 | 37 |
| 105 | Thermoelectric properties of n-type double substituted SrTiO<sub>3</sub>bulk materials. Dalton Transactions, 2010, 39, 1031-1035. | 3.3 | 27 |
| 106 | High temperature thermoelectric properties of double-filled InxYbyCo4Sb12 skutterudites. Journal of Applied Physics, 2009, 105, 084907. | 2.5 | 43 |
| 107 | New Ternary Arsenides for High-Temperature Thermoelectric Applications. Journal of Electronic Materials, 2009, 38, 1030-1036. | 2.2 | 4 |
| 108 | Synthesis and Thermoelectric Properties of the Double-Filled Skutterudite Yb0.2In y Co4Sb12. Journal of Electronic Materials, 2009, 38, 981-984. | 2.2 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Nanoscale granular boundaries in polycrystalline Pb<sub>0.75</sub>Sn<sub>0.25</sub>Te: an innovative approach to enhance the thermoelectric figure of merit. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 221-228. | 1.8 | 16 |
| 110 | High-performance half-Heusler thermoelectric materials Hf1â^'x ZrxNiSn1â^'ySby prepared by levitation melting and spark plasma sintering. Acta Materialia, 2009, 57, 2757-2764. | 7.9 | 373 |
| 111 | Thermal conductivity and specific heat of bulk amorphous chalcogenides Ge20Te80â^'xSex (x=0,1,2,8). Journal of Non-Crystalline Solids, 2009, 355, 79-83. | 3.1 | 33 |
| 112 | Synthesis and thermoelectric properties of (Ti,Zr,Hf)(Co,Pd)Sb half-Heusler compounds. Journal Physics D: Applied Physics, 2009, 42, 235407. | 2.8 | 16 |
| 113 | Determination of inâ€plane thermal conductivity of Na<sub>x</sub> Co<sub>2</sub>O<sub>4</sub> single crystals via a parallel thermal conductance (PTC) technique. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1152-1156. | 1.8 | 4 |
| 114 | Single-crystal growth of NaxCo2O4 via a novel low-temperature flux method. Journal of Crystal Growth, 2008, 310, 665-670. | 1.5 | 5 |
| 115 | First-principles study of the electronic, optical, and lattice vibrational properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>AgSbTe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, . | 3.2 | 75 |
| 116 | Improved thermoelectric performance in polycrystalline p-type Bi2Te3 via an alkali metal salt hydrothermal nanocoating treatment approach. Journal of Applied Physics, 2008, 104, . | 2.5 | 59 |
| 117 | The role of Î³-iron nanoparticulates in the growth of carbon nanotubes. Applied Physics Letters, 2008, 93, . | 3.3 | 11 |
| 118 | The Study of Solvothermal Synthesis of Nano-Engineered CoSb3 Skutterudite Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2007, 1044, 1. | 0.1 | 2 |
| 119 | New Opportunities in Existing Thermoelectric Materials: Grain Boundary Engineering in Pulverized p-Bi2Te3 System. Materials Research Society Symposia Proceedings, 2007, 1044, 1. | 0.1 | 0 |
| 120 | Synthesis and Optical Properties of 1D Bismuth Nanorods. Materials Research Society Symposia Proceedings, 2007, 1044, 1. | 0.1 | 0 |
| 121 | Laser-assisted synthesis and optical properties of bismuth nanorods. Chemical Physics Letters, 2007, 442, 334-338. | 2.6 | 31 |
| 122 | Naturally occurring and stress induced tubular structures from mammalian cells, a survival mechanism. BMC Cell Biology, 2007, 8, 36. | 3.0 | 3 |
| 123 | Thermal conductivity of CoSb<sub>3</sub> nanoâ€composites grown via a novel solvothermal nanoâ€plating technique. Physica Status Solidi - Rapid Research Letters, 2007, 1, 229-231. | 2.4 | 27 |
| 124 | Thermoelectric Properties of Mo3Sb5.4Te1.6 and Ni0.06Mo3Sb5.4Te1.6. Journal of Electronic Materials, 2007, 36, 727-731. | 2.2 | 19 |
| 125 | Crystal Growth, Structure, and Stoichiometry of the Superconducting Pyrochlore Cd2Re2O7. Journal of Electronic Materials, 2007, 36, 740-745. | 2.2 | 11 |
| 126 | Nonlinear optical signatures of the tensor order in Cd2Re2O7Â. Nature Physics, 2006, 2, 605-608. | 16.7 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | New Directions in Bulk Thermoelectric Materials Research: Synthesis of Nanoscale Precursors for â€œBulk-Compositeâ€•Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2005, 886, 1. | 0.1 | 11 |
| 128 | Thermoelectric Study on Polycrystalline La1â^'xSrxRuO3. Materials Research Society Symposia Proceedings, 2005, 886, 1. | 0.1 | 0 |
| 129 | Enhanced Thermoelectric Performance and Electronic Transport Properties of Ag-Doped Cu2â€“xS0.5Se0.5. ACS Applied Energy Materials, 0, , . | 5.1 | 3 |