

Haijun Wu

List of Publications by Year in Descending Order

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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.

124
papers

9,274
citations

50
h-index

95
g-index

130
ext. papers

11,512
ext. citations

14.1
avg, IF

6.27
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 124 | Nanotwins Strengthening High Thermoelectric Performance Bismuth Antimony Telluride Alloys.. <i>Advanced Science</i> , 2022 , e2200432 | 13.6 | 1 |
| 123 | Evolution from Lead-Based to Lead-Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. <i>Advanced Materials</i> , 2021 , e2106845 | 24 | 9 |
| 122 | Medium Entropy-Enabled High Performance Cubic GeTe Thermoelectrics. <i>Advanced Science</i> , 2021 , 8, 2100220 | 13.6 | 14 |
| 121 | Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021 , 12, 2841 | 17.4 | 4 |
| 120 | Nanoscale bubble domains with polar topologies in bulk ferroelectrics. <i>Nature Communications</i> , 2021 , 12, 3632 | 17.4 | 10 |
| 119 | Symmetry of the Underlying Lattice in (K,Na)NbO-Based Relaxor Ferroelectrics with Large Electromechanical Response. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7461-7469 | 9.5 | 6 |
| 118 | (GeTe)(AgSnSe): Strong Atomic Disorder-Induced High Thermoelectric Performance near the Ioffe-Regel Limit. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47081-47089 | 9.5 | 7 |
| 117 | Critical role of tellurium self-compensation in enhancing the thermoelectric performance of p-Type Bi _{0.4} Sb _{1.6} Te ₃ alloy. <i>Chemical Engineering Journal</i> , 2021 , 425, 130670 | 14.7 | 7 |
| 116 | Constructing multi-type defects in In _{0.1} Sb _{1.9} Te ₃ -(MgB ₂) composites: Simultaneously enhancing the thermoelectric and mechanical properties. <i>Nano Energy</i> , 2021 , 90, 106530 | 17.1 | 1 |
| 115 | Synergistic Strategies to Boost Lead Telluride as Prospective Thermoelectrics 2021 , 155-189 | | 1 |
| 114 | Extremely low thermal conductivity from bismuth selenohalides with 1D soft crystal structure. <i>Science China Materials</i> , 2020 , 63, 1759-1768 | 7.1 | 22 |
| 113 | Ultrahigh Average Realized in p-Type SnSe Crystalline Thermoelectrics through Producing Extrinsic Vacancies. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5901-5909 | 16.4 | 51 |
| 112 | Contrasting roles of small metallic elements M (M = Cu, Zn, Ni) in enhancing the thermoelectric performance of n-type PbM _{0.01} Se. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5699-5708 | 13 | 12 |
| 111 | Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in -Type PbS. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4051-4060 | 16.4 | 71 |
| 110 | Nanoscale Phase Mixture and Multifield-Induced Topotactic Phase Transformation in SrFeO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21883-21893 | 9.5 | 6 |
| 109 | Flexible Ferroelectrics: Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity (Adv. Mater. 50/2020). <i>Advanced Materials</i> , 2020 , 32, 20703774 | | |
| 108 | Bismuth ion battery [A new member in trivalent battery technology. <i>Energy Storage Materials</i> , 2020 , 25, 100-104 | 19.4 | 2 |

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| 107 | Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. <i>Energy and Environmental Science</i> , 2020 , 13, 229-237 | 35.4 | 43 |
| 106 | New Role of Relaxor Multiphase Coexistence in Potassium Sodium Niobate Ceramics: Reduced Electric Field Dependence of Strain Temperature Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49822-49829 | 9.5 | 3 |
| 105 | Giant piezoelectricity in oxide thin films with nanopillar structure. <i>Science</i> , 2020 , 369, 292-297 | 33.3 | 34 |
| 104 | High-performance potassium sodium niobate piezoceramics for ultrasonic transducer. <i>Nano Energy</i> , 2020 , 70, 104559 | 17.1 | 37 |
| 103 | Enhanced mechanical and thermoelectric properties enabled by hierarchical structure in medium-temperature Sb ₂ Te ₃ based alloys. <i>Nano Energy</i> , 2020 , 78, 105228 | 17.1 | 13 |
| 102 | Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. <i>Advanced Materials</i> , 2020 , 32, e2004477 | 24 | 18 |
| 101 | Materializing efficient methanol oxidation via electron delocalization in nickel hydroxide nanoribbon. <i>Nature Communications</i> , 2020 , 11, 4647 | 17.4 | 29 |
| 100 | Single-Atom Tungsten-Doped CoP Nanoarrays as a High-Efficiency pH-Universal Catalyst for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14825-14832 | 8.3 | 32 |
| 99 | Nanoscale Topotactic Phase Transformation in SrFeO Epitaxial Thin Films for High-Density Resistive Switching Memory. <i>Advanced Materials</i> , 2019 , 31, e1903679 | 24 | 27 |
| 98 | Comprehensive Investigation on the Thermoelectric Properties of p-Type PbTe-PbSe-PbS Alloys. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900609 | 6.4 | 20 |
| 97 | High thermoelectric performance in low-cost SnS ₂ crystals. <i>Science</i> , 2019 , 365, 1418-1424 | 33.3 | 233 |
| 96 | Outstanding Piezoelectric Performance in Lead-Free 0.95(K,Na)(Sb,Nb)O ₃ -0.05(Bi,Na,K)ZrO ₃ Thick Films with Oriented Nanophase Coexistence. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800691 | 6.4 | 11 |
| 95 | A Coherently Strained Monoclinic [111]PbTiO ₃ Film Exhibiting Zero Poisson's Ratio State. <i>Advanced Functional Materials</i> , 2019 , 29, 1901687 | 15.6 | 19 |
| 94 | Microstructural Origins of High Piezoelectric Performance: A Pathway to Practical Lead-Free Materials. <i>Advanced Functional Materials</i> , 2019 , 29, 1902911 | 15.6 | 30 |
| 93 | Seeing atomic-scale structural origins and foreseeing new pathways to improved thermoelectric materials. <i>Materials Horizons</i> , 2019 , 6, 1548-1570 | 14.4 | 16 |
| 92 | Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through alloying CdSe. <i>Energy and Environmental Science</i> , 2019 , 12, 1969-1978 | 35.4 | 63 |
| 91 | Nitrogen-Doped Cobalt Phosphide for Enhanced Hydrogen Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17359-17367 | 9.5 | 22 |
| 90 | Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in n-Type Ag _n Pb ₁₀₀ InnTe _{100+2n} (LIST). <i>Advanced Energy Materials</i> , 2019 , 9, 1900414 | 21.8 | 34 |

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| 89 | Rotatable precipitates change the scale-free to scale dependent statistics in compressed Ti nano-pillars. <i>Scientific Reports</i> , 2019 , 9, 3778 | 4.9 | 10 |
| 88 | Piezoelectric Films: Outstanding Piezoelectric Performance in Lead-Free 0.95(K,Na)(Sb,Nb)O ₃ -0.05(Bi,Na,K)ZrO ₃ Thick Films with Oriented Nanophase Coexistence (Adv. Electron. Mater. 4/2019). <i>Advanced Electronic Materials</i> , 2019 , 5, 1970020 | 6.4 | 1 |
| 87 | Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019 , 15, e1900248 | 11 | 44 |
| 86 | Designing Energy Materials via Atomic-resolution Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1998-1999 | 0.5 | 0 |
| 85 | Ultrahigh Performance in Lead-Free Piezoceramics Utilizing a Relaxor Slush Polar State with Multiphase Coexistence. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13987-13994 | 16.4 | 152 |
| 84 | Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149 | 17.4 | 20 |
| 83 | Multiscale Defects as Strong Phonon Scatters to Enhance Thermoelectric Performance in Mg ₂ Sn _{1-x} Sb _x Solid Solutions. <i>Small Methods</i> , 2019 , 3, 1900412 | 12.8 | 6 |
| 82 | Simultaneous Boost of Power Factor and Figure-of-Merit in In-Cu Codoped SnTe. <i>Small</i> , 2019 , 15, e1902493 | 19.3 | 29 |
| 81 | Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through introducing a small amount of Zn. <i>Materials Today Physics</i> , 2019 , 9, 100102 | 8 | 25 |
| 80 | Percolated Strain Networks and Universal Scaling Properties of Strain Glasses. <i>Physical Review Letters</i> , 2019 , 123, 015701 | 7.4 | 9 |
| 79 | Synergistic boost of output power density and efficiency in In-Li-codoped SnTe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21998-22003 | 11.5 | 15 |
| 78 | Enhancing Thermoelectric Performance of p-Type PbSe through Suppressing Electronic Thermal Transports. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8236-8243 | 6.1 | 18 |
| 77 | Artificial two-dimensional polar metal by charge transfer to a ferroelectric insulator. <i>Communications Physics</i> , 2019 , 2, | 5.4 | 13 |
| 76 | Enhanced Thermoelectric and Mechanical Properties in Yb _{0.3} Co ₄ Sb ₁₂ with In Situ Formed CoSi Nanoprecipitates. <i>Advanced Energy Materials</i> , 2019 , 9, 1902435 | 21.8 | 29 |
| 75 | Defect Engineering of Oxygen-Deficient Manganese Oxide to Achieve High-Performing Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1803815 | 21.8 | 285 |
| 74 | New insights into the role of dislocation engineering in N-type filled skutterudite CoSb ₃ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13622-13631 | 7.1 | 9 |
| 73 | Intrinsically Low Thermal Conductivity in BiSbSe ₃ : A Promising Thermoelectric Material with Multiple Conduction Bands. <i>Advanced Functional Materials</i> , 2019 , 29, 1806558 | 15.6 | 53 |
| 72 | NiFe Layered Double-Hydroxide Nanosheets on a Cactuslike (Ni,Co)Se ₂ Support for Water Oxidation. <i>ACS Applied Nano Materials</i> , 2019 , 2, 325-333 | 5.6 | 11 |

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| 71 | Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1141-1149 | 16.4 | 91 |
| 70 | (Ni,Co)Se /NiCo-LDH Core/Shell Structural Electrode with the Cactus-Like (Ni,Co)Se Core for Asymmetric Supercapacitors. <i>Small</i> , 2019 , 15, e1803895 | 11 | 50 |
| 69 | Metal-organic framework-derived integrated nanoarrays for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9009-9018 | 13 | 54 |
| 68 | Premartensite serving as an intermediary state between strain glass and martensite in ferromagnetic Ni-Fe-Mn-Ga. <i>Materials and Design</i> , 2018 , 152, 102-109 | 8.1 | 4 |
| 67 | Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018 , 48, 73-80 | 17.1 | 418 |
| 66 | Cactus-Like NiCoP/NiCo-OH 3D Architecture with Tunable Composition for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800036 | 15.6 | 206 |
| 65 | Extraordinary thermoelectric performance in n-type manganese doped Mg ₃ Sb ₂ Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. <i>Nano Energy</i> , 2018 , 52, 246-255 | 17.1 | 117 |
| 64 | Synergistic Compositional-Mechanical-Thermal Effects Leading to a Record High zT in n-Type V ₂ VI ₃ Alloys Through Progressive Hot Deformation. <i>Advanced Functional Materials</i> , 2018 , 28, 1803617 | 15.6 | 50 |
| 63 | Thermoelectric SnTe with Band Convergence, Dense Dislocations, and Interstitials through Sn Self-Compensation and Mn Alloying. <i>Small</i> , 2018 , 14, e1802615 | 11 | 96 |
| 62 | Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zinc-Air Battery Cathodes. <i>ACS Catalysis</i> , 2018 , 8, 8961-8969 | 13.1 | 250 |
| 61 | Progress and prospects of aberration-corrected STEM for functional materials. <i>Ultramicroscopy</i> , 2018 , 194, 182-192 | 3.1 | 25 |
| 60 | Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity. <i>Energy and Environmental Science</i> , 2018 , 11, 2486-2495 | 35.4 | 129 |
| 59 | Anomalous Hall magnetoresistance in a ferromagnet. <i>Nature Communications</i> , 2018 , 9, 2255 | 17.4 | 22 |
| 58 | Orthorhombic Ti ₂ O ₃ : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , 2018 , 28, 1705657 | 15.6 | 21 |
| 57 | Investigations on electrical and thermal transport properties of Cu ₂ SnSe ₃ with unusual coexisting nanophases. <i>Materials Today Physics</i> , 2018 , 7, 77-88 | 8 | 17 |
| 56 | Decoding the Structural Origin of Piezoelectric and Thermoelectric Materials with Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 72-73 | 0.5 | 1 |
| 55 | Open hollow CoPt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20214-20223 | 13 | 29 |
| 54 | The Atomic Circus: Small Electron Beams Spotlight Advanced Materials Down to the Atomic Scale. <i>Advanced Materials</i> , 2018 , 30, e1802402 | 24 | 26 |

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| 53 | Epitaxial Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films and Their Implementations in Memristors for Brain-Inspired Computing. <i>Advanced Functional Materials</i> , 2018 , 28, 1806037 | 15.6 | 98 |
| 52 | Practical High Piezoelectricity in Barium Titanate Ceramics Utilizing Multiphase Convergence with Broad Structural Flexibility. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15252-15260 | 16.4 | 105 |
| 51 | Entropy Engineering of SnTe: Multi-Principal-Element Alloying Leading to Ultralow Lattice Thermal Conductivity and State-of-the-Art Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1802116 | 21.8 | 100 |
| 50 | Understanding Phonon Scattering by Nanoprecipitates in Potassium-Doped Lead Chalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3686-3693 | 9.5 | 4 |
| 49 | The structural origin of enhanced piezoelectric performance and stability in lead free ceramics. <i>Energy and Environmental Science</i> , 2017 , 10, 528-537 | 35.4 | 305 |
| 48 | Strategy to optimize the overall thermoelectric properties of SnTe via compositing with its property-counter CuInTe ₂ . <i>Acta Materialia</i> , 2017 , 125, 542-549 | 8.4 | 41 |
| 47 | Mg vacancy and dislocation strains as strong phonon scatterers in Mg ₂ Si _{1-x} Sb _x thermoelectric materials. <i>Nano Energy</i> , 2017 , 34, 428-436 | 17.1 | 85 |
| 46 | Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. <i>Energy and Environmental Science</i> , 2017 , 10, 2420-2431 | 35.4 | 89 |
| 45 | Hollow Co ₃ O ₄ Nanosphere Embedded in Carbon Arrays for Stable and Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1704117 | 24 | 325 |
| 44 | Investigation on thermal transport and structural properties of InFeO ₃ (ZnO) <i>m</i> with modulated layer structures. <i>Acta Materialia</i> , 2017 , 136, 235-241 | 8.4 | 9 |
| 43 | Material descriptors for morphotropic phase boundary curvature in lead-free piezoelectrics. <i>Applied Physics Letters</i> , 2017 , 111, 032907 | 3.4 | 12 |
| 42 | Enhancing Thermoelectric Performance of n-Type Hot Deformed Bismuth-Telluride-Based Solid Solutions by Nonstoichiometry-Mediated Intrinsic Point Defects. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28577-28585 | 9.5 | 55 |
| 41 | Effect of martensitic structure on the magnetic field controlled damping effect in a Ni ₂ BeMnGa ferromagnetic shape memory alloy. <i>Journal of Materials Science</i> , 2017 , 52, 12854-12860 | 4.3 | 6 |
| 40 | Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-CuTe. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18732-18738 | 16.4 | 179 |
| 39 | Metal-organic framework derived hollow CoS nanotube arrays: an efficient bifunctional electrocatalyst for overall water splitting. <i>Nanoscale Horizons</i> , 2017 , 2, 342-348 | 10.8 | 189 |
| 38 | Sulfur-doped cobalt phosphide nanotube arrays for highly stable hybrid supercapacitor. <i>Nano Energy</i> , 2017 , 39, 162-171 | 17.1 | 202 |
| 37 | Tracking Atoms, Vacancies and Electrons via Aberration-corrected Microscopy and First-Principles Theory 2016 , 964-965 | | |
| 36 | Extremely Low Thermal Conductivity in Thermoelectric Ge _{0.55} Pb _{0.45} Te Solid Solutions via Se Substitution. <i>Chemistry of Materials</i> , 2016 , 28, 6367-6373 | 9.6 | 39 |

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| 35 | Giant Piezoelectricity and High Curie Temperature in Nanostructured Alkali Niobate Lead-Free Piezoceramics through Phase Coexistence. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15459-15464 | 16.4 | 241 |
| 34 | The Role of Electron-Phonon Interaction in Heavily Doped Fine-Grained Bulk Silicons as Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600171 | 6.4 | 28 |
| 33 | Enhanced thermoelectric performance of PbTe bulk materials with figure of merit $zT > 2$ by multi-functional alloying. <i>Journal of Materiomics</i> , 2016 , 2, 141-149 | 6.7 | 89 |
| 32 | 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 |
| 31 | Multiple Converged Conduction Bands in KBiSe: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16364-16371 | 16.4 | 95 |
| 30 | Attaining high mid-temperature performance in (Bi,Sb) ₂ Te ₃ thermoelectric materials via synergistic optimization. <i>NPG Asia Materials</i> , 2016 , 8, e302-e302 | 10.3 | 96 |
| 29 | Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016 , 3, 1600035 | 13.6 | 106 |
| 28 | Lattice-mismatch-induced twinning for seeded growth of anisotropic nanostructures. <i>ACS Nano</i> , 2015 , 9, 3307-13 | 16.7 | 69 |
| 27 | Advanced electron microscopy for thermoelectric materials. <i>Nano Energy</i> , 2015 , 13, 626-650 | 17.1 | 67 |
| 26 | Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. <i>Energy and Environmental Science</i> , 2015 , 8, 3298-3312 | 35.4 | 209 |
| 25 | Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Energy Materials</i> , 2015 , 5, 1500411 | 21.8 | 287 |
| 24 | Strain glass transition in a multifunctional p-type Ti alloy. <i>Scientific Reports</i> , 2014 , 4, 3995 | 4.9 | 59 |
| 23 | Origin of the high performance in GeTe-based thermoelectric materials upon Bi ₂ Te ₃ doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11412-9 | 16.4 | 259 |
| 22 | Pb co-doping induced structural recovery of TiO ₂ for overall water splitting under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 79-83 | 5.7 | 26 |
| 21 | Broad temperature plateau for thermoelectric figure of merit $ZT > 2$ in phase-separated PbTe _{0.7} Sb _{0.3} . <i>Nature Communications</i> , 2014 , 5, 4515 | 17.4 | 373 |
| 20 | High thermoelectric performance realized in a BiCuSeO system by improving carrier mobility through 3D modulation doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13902-8 | 16.4 | 253 |
| 19 | Adaptive ferroelectric state at morphotropic phase boundary: Coexisting tetragonal and rhombohedral phases. <i>Acta Materialia</i> , 2014 , 71, 176-184 | 8.4 | 66 |
| 18 | High thermoelectric performance of Ge _{1-x} Pb _x Se _{0.5} Te _{0.5} due to (Pb, Se) co-doping. <i>Acta Materialia</i> , 2014 , 74, 215-223 | 8.4 | 26 |

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| 17 | Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. <i>NPG Asia Materials</i> , 2014 , 6, e108-e108 | 10.3 | 119 |
| 16 | Significantly Enhanced Thermoelectric Performance in n-type Heterogeneous BiAgSeS Composites. <i>Advanced Functional Materials</i> , 2014 , 24, 7763-7771 | 15.6 | 74 |
| 15 | Electron Microscopy for Characterization of Thermoelectric Nanomaterials 2014 , 427-536 | | |
| 14 | Understanding the Role of Potassium Doping in PbTe-PbS Thermoelectrics. <i>Microscopy and Microanalysis</i> , 2014 , 20, 506-507 | 0.5 | 1 |
| 13 | High thermoelectric performance in n-type BiAgSeS due to intrinsically low thermal conductivity. <i>Energy and Environmental Science</i> , 2013 , 6, 1750 | 35.4 | 59 |
| 12 | Texturation boosts the thermoelectric performance of BiCuSeO oxyselenides. <i>Energy and Environmental Science</i> , 2013 , 6, 2916 | 35.4 | 273 |
| 11 | 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 |
| 10 | Fe substitution induced intermartensitic transition and its internal stress dependent transforming behavior in NiMnGa based alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 812-815 | 5.7 | 4 |
| 9 | Role of sodium doping in lead chalcogenide thermoelectrics. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4624-7 | 16.4 | 111 |
| 8 | Time-dependent ferroelectric transition in Pb(1-x)(Zr0.4Ti0.6)(1-x/4)O3 kLa system. <i>Applied Physics Letters</i> , 2013 , 102, 222907 | 3.4 | 10 |
| 7 | Spontaneous strain glass to martensite transition in ferromagnetic Ni-Co-Mn-Ga strain glass. <i>Applied Physics Letters</i> , 2013 , 102, 141909 | 3.4 | 18 |
| 6 | On the Origin of Low Thermal Conductivity in High Thermoelectric Performance in n-type BiAgSeS. <i>Microscopy and Microanalysis</i> , 2013 , 19, 2000-2001 | 0.5 | |
| 5 | Microstructure at morphotropic phase boundary in Pb(Mg1/3Nb2/3)O3-PbTiO3 ceramic: Coexistence of nano-scaled {110}-type rhombohedral twin and {110}-type tetragonal twin. <i>Journal of Applied Physics</i> , 2012 , 112, 052004 | 2.5 | 36 |
| 4 | Large piezoelectricity and dielectric permittivity in BaTiO3-xBaSnO3 system: The role of phase coexisting. <i>Europhysics Letters</i> , 2012 , 98, 27008 | 1.6 | 162 |
| 3 | Microstructure basis for strong piezoelectricity in Pb-free Ba(Zr0.2Ti0.8)O3-(Ba0.7Ca0.3)TiO3 ceramics. <i>Applied Physics Letters</i> , 2011 , 99, 092901 | 3.4 | 215 |
| 2 | Rationally optimized carrier effective mass and carrier density leads to high average ZT value in n-type PbSe. <i>Journal of Materials Chemistry A</i> , | 13 | 5 |
| 1 | High-Range ZT Value Promotes Thermoelectric Cooling and Power Generation in n-Type PbTe. <i>Advanced Energy Materials</i> , 2200204 | 21.8 | 5 |