Jihui Yang

List of Publications by Year in descending order

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| | | 53660 | 71532 |
|----------|----------------|--------------|----------------|
| 77 | 15,148 | 45 | 76 |
| papers | citations | h-index | g-index |
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| 77 | 77 | 77 | 12278 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | Citations |
|----|--|------------|-----------|
| 1 | The Quest for Stable Potassiumâ€lon Battery Chemistry. Advanced Materials, 2022, 34, e2106876. | 11.1 | 41 |
| 2 | All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056. | 15.6 | 41 |
| 3 | Defect-mediated Rashba engineering for optimizing electrical transport in thermoelectric BiTel. Npj Computational Materials, 2020, 6, . | 3.5 | 24 |
| 4 | Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. Chemical Reviews, 2020, 120, 7795-7866. | 23.0 | 950 |
| 5 | Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu ₂ Se Composites. Advanced Materials, 2020, 32, e2003730. | 11.1 | 99 |
| 6 | Electron-phonon coupling and superconductivity in the doped topological crystalline insulator (Pb0.5Sn0.5)1â^'xInxTe. Physical Review B, 2020, 102, . | 1.1 | 5 |
| 7 | Catalyzing zinc-ion intercalation in hydrated vanadates for aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7713-7723. | 5.2 | 84 |
| 8 | Understanding and applying coulombic efficiency in lithium metal batteries. Nature Energy, 2020, 5, 561-568. | 19.8 | 526 |
| 9 | Apparatus design for measuring of the strain dependence of the Seebeck coefficient of single crystals. Review of Scientific Instruments, 2020, 91, 023902. | 0.6 | 1 |
| 10 | Rationalizing the interphase stability of Li doped-Li ₇ La ₃ Zr ₂ O ₁₂ <i>via</i> automated reaction screening and machine learning. Journal of Materials Chemistry A, 2019, 7, 19961-19969. | 5.2 | 59 |
| 11 | Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. ACS Energy Letters, 2019, 4, 2995-3001. | 8.8 | 297 |
| 12 | Expanded hydrated vanadate for high-performance aqueous zinc-ion batteries. Energy and Environmental Science, 2019, 12, 2273-2285. | 15.6 | 512 |
| 13 | Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. Nature Communications, 2019, 10, 2814. | 5.8 | 81 |
| 14 | A multi-functional interface derived from thiol-modified mesoporous carbon in lithium–sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 13372-13381. | 5.2 | 17 |
| 15 | Understanding the electrochemical potential and diffusivity of MnO/C nanocomposites at various charge/discharge states. Journal of Materials Chemistry A, 2019, 7, 7831-7842. | 5.2 | 34 |
| 16 | Reaction Mechanisms for Long-Life Rechargeable Zn/MnO ₂ Batteries. Chemistry of Materials, 2019, 31, 2036-2047. | 3.2 | 195 |
| 17 | Tuning self-healing properties of stiff, ion-conductive polymers. Journal of Materials Chemistry A, 2019, 7, 6773-6783. | 5.2 | 34 |
| 18 | Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186. | 19.8 | 2,101 |

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|----|--|-------------|-----------|
| 19 | Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. Chemistry of Materials, 2018, 30, 3101-3109. | 3.2 | 119 |
| 20 | The role of the solid electrolyte interphase layer in preventing Li dendrite growth in solid-state batteries. Energy and Environmental Science, 2018, 11, 1803-1810. | 15.6 | 304 |
| 21 | Fabrication and Thermoelectric Properties of n-Type CoSb _{2.85} Te _{0.15} Using Selective Laser Melting. ACS Applied Materials & Interfaces, 2018, 10, 13669-13674. | 4.0 | 37 |
| 22 | Thermo-element geometry optimization for high thermoelectric efficiency. Energy, 2018, 147, 672-680. | 4.5 | 26 |
| 23 | Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. National Science Review, 2018, 5, 59-69. | 4.6 | 26 |
| 24 | Water‣ubricated Intercalation in V ₂ O ₅ ·nH ₂ O for Highâ€Capacity and Highâ€Rate Aqueous Rechargeable Zinc Batteries. Advanced Materials, 2018, 30, 1703725. | 11.1 | 1,084 |
| 25 | Designing solvate ionogel electrolytes with very high room-temperature conductivity and lithium transference number. Journal of Materials Chemistry A, 2018, 6, 24100-24106. | 5.2 | 12 |
| 26 | Thermoelectric properties of n-type ZrNiSn prepared by rapid non-equilibrium laser processing. RSC Advances, 2018, 8, 15796-15803. | 1.7 | 21 |
| 27 | Separating electronic and ionic conductivity in mix-conducting layered lithium transition-metal oxides. Journal of Power Sources, 2018, 393, 75-82. | 4.0 | 104 |
| 28 | Dynamic process of the resonant phonon scattering in fully filled skutterudites. Physical Review B, 2018, 98, . | 1.1 | 10 |
| 29 | Finite element analysis of temperature and stress fields during the selective laser melting process of thermoelectric SnTe. Journal of Materials Processing Technology, 2018, 261, 74-85. | 3.1 | 59 |
| 30 | Electrochemical and interfacial behavior of all solid state batteries using Li10SnP2S12 solid electrolyte. Journal of Power Sources, 2018, 396, 824-830. | 4.0 | 54 |
| 31 | Resonant level-induced high thermoelectric response in indium-doped GeTe. NPG Asia Materials, 2017, 9, e343-e343. | 3.8 | 170 |
| 32 | The "electron crystal―behavior in copper chalcogenides Cu ₂ X (X = Se, S). Journal of Materials Chemistry A, 2017, 5, 5098-5105. | 5. 2 | 81 |
| 33 | Non-equilibrium synthesis and characterization of n-type Bi ₂ Te _{2.7} Se _{0.3} thermoelectric material prepared by rapid laser melting and solidification. RSC Advances, 2017, 7, 21439-21445. | 1.7 | 40 |
| 34 | Preparation of nâ€type Bi ₂ Te ₃ thermoelectric materials by nonâ€contact dispenser printing combined with selective laser melting. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700067. | 1.2 | 34 |
| 35 | Field-Effect Tuned Adsorption Dynamics of VSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. Nano Letters, 2017, 17, 4109-4115. | 4.5 | 134 |
| 36 | Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier–phonon coupling. Energy and Environmental Science, 2017, 10, 1590-1599. | 15.6 | 115 |

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|----|---|------------|-----------|
| 37 | Solidâ€State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. Advanced Materials, 2017, 29, 1701148. | 11.1 | 110 |
| 38 | Facile room temperature solventless synthesis of high thermoelectric performance Ag ₂ Se <i>via</i> a dissociative adsorption reaction. Journal of Materials Chemistry A, 2017, 5, 23243-23251. | 5.2 | 79 |
| 39 | Superparamagnetic enhancement of thermoelectric performance. Nature, 2017, 549, 247-251. | 13.7 | 472 |
| 40 | Thermoelectric performance of CuFeS2+2x composites prepared by rapid thermal explosion. NPG Asia Materials, 2017, 9, e390-e390. | 3.8 | 38 |
| 41 | Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. Nature Nanotechnology, 2017, 12, 55-60. | 15.6 | 216 |
| 42 | High-performance n-type YbxCo4Sb12: from partially filled skutterudites towards composite thermoelectrics. NPG Asia Materials, 2016, 8, e285-e285. | 3.8 | 102 |
| 43 | On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory–experiment perspective. Npj Computational Materials, 2016, 2, . | 3.5 | 399 |
| 44 | Structure family and polymorphous phase transition in the compounds with soft sublattice: Cu2Se as an example. Journal of Chemical Physics, 2016, 144, 194502. | 1.2 | 35 |
| 45 | Electronegative guests in CoSb ₃ . Energy and Environmental Science, 2016, 9, 2090-2098. | 15.6 | 93 |
| 46 | High thermoelectric performance in Te-free (Bi,Sb) ₂ Se ₃ via structural transition induced band convergence and chemical bond softening. Energy and Environmental Science, 2016, 9, 3436-3447. | 15.6 | 159 |
| 47 | Interfacial behaviours between lithium ion conductors and electrode materials in various battery systems. Journal of Materials Chemistry A, 2016, 4, 15266-15280. | 5.2 | 184 |
| 48 | Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. Nature Energy, 2016, 1 , . | 19.8 | 2,186 |
| 49 | Minimum Thermal Conductivity in Weak Topological Insulators with Bismuthâ€Based Stack Structure. Advanced Functional Materials, 2016, 26, 5360-5367. | 7.8 | 29 |
| 50 | Enhanced Thermoelectric Performance in Cu-Intercalated BiTel by Compensation Weakening Induced Mobility Improvement. Scientific Reports, 2015, 5, 14319. | 1.6 | 33 |
| 51 | Intrinsic low thermal conductivity in weakly ionic rocksalt structures. Physical Review B, 2015, 92, . | 1.1 | 9 |
| 52 | Band Structure Engineering and Thermoelectric Properties of Charge-Compensated Filled Skutterudites. Scientific Reports, 2015, 5, 14641. | 1.6 | 41 |
| 53 | Diverse lattice dynamics in ternary Cu-Sb-Se compounds. Scientific Reports, 2015, 5, 13643. | 1.6 | 51 |
| 54 | On Intensifying Carrier Impurity Scattering to Enhance Thermoelectric Performance in Crâ€Doped Ce _y Co ₄ Sb ₁₂ . Advanced Functional Materials, 2015, 25, 6660-6670. | 7.8 | 77 |

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|----|--|-------------|---------------|
| 55 | Conductivity-limiting bipolar thermal conductivity in semiconductors. Scientific Reports, 2015, 5, 10136. | 1.6 | 107 |
| 56 | Compound defects and thermoelectric properties in ternary CuAgSe-based materials. Journal of Materials Chemistry A, 2015, 3, 13662-13670. | 5.2 | 58 |
| 57 | Probing the initiation of voltage decay in Li-rich layered cathode materials at the atomic scale. Journal of Materials Chemistry A, 2015, 3, 5385-5391. | 5. 2 | 81 |
| 58 | Multi-localization transport behaviour in bulk thermoelectric materials. Nature Communications, 2015, 6, 6197. | 5.8 | 108 |
| 59 | Thermopower enhancement in quantum wells with the Rashba effect. Applied Physics Letters, 2014, 105, | 1.5 | 18 |
| 60 | Two-dimensional thermoelectrics with Rashba spin-split bands in bulk BiTeI. Physical Review B, 2014, 90, | 1.1 | 74 |
| 61 | Part-crystalline part-liquid state and rattling-like thermal damping in materials with chemical-bond hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15031-15035. | 3.3 | 225 |
| 62 | Probing Electrochemical Cycling Stability of Li-ion Cathode Materials at Atomic-scale. Microscopy and Microanalysis, 2014, 20, 452-453. | 0.2 | 33 |
| 63 | Polytypism in superhard transition-metal triborides. Scientific Reports, 2014, 4, 5063. | 1.6 | 17 |
| 64 | Chargeâ€Compensated Compound Defects in Gaâ€containing Thermoelectric Skutterudites. Advanced Functional Materials, 2013, 23, 3194-3203. | 7.8 | 108 |
| 65 | Condenson-related thermoelectric properties and formation of coherent nanoinclusions in Te-substituted In4Se3 compounds. Journal of Materials Chemistry A, 2013, 1, 15342. | 5.2 | 4 |
| 66 | Enhancement of thermoelectric performance in slightly charge-compensated Ce <i>y</i> Co4Sb12 skutterudites. Applied Physics Letters, 2013, 103, . | 1.5 | 25 |
| 67 | Thermoelectric performance of p-type skutterudites Yb <i>x</i> Fe <i>4</i> â°'yPt <i>y</i> Sb12 (0.8 â‰â€‰ <i>x</i> â‰â€‰1, <i>y</i> = 1 and 0.5). Journal of Applied Physics, 2013, 113, . | 1.1 | 13 |
| 68 | Electron and Phonon Transport in n- and p-type Skutterudites. Materials Research Society Symposia Proceedings, 2013, 1490, 9-18. | 0.1 | 5 |
| 69 | Rational Design of Advanced Thermoelectric Materials. Advanced Energy Materials, 2013, 3, 549-565. | 10.2 | 264 |
| 70 | Theoretical Study on Structural Stability of Fully Filled p-Type Skutterudites RETM4Sb12 (REÂ=ÂRare) Tj ETQq0 0 | 0 [gBT /Ov | verlock 10 Tf |
| 71 | Power factor enhancement in light valence band p-type skutterudites. Applied Physics Letters, 2012, 101, | 1.5 | 26 |
| 72 | Enhanced thermoelectric properties of Bi2(Te1â^'xSex)3-based compounds as n-type legs for low-temperature power generation. Journal of Materials Chemistry, 2012, 22, 20943. | 6.7 | 147 |

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|----|---|-----|-----------|
| 73 | Thermoelectric properties of Ni-doped CeFe4Sb12 skutterudites. Journal of Applied Physics, 2012, 111, . | 1.1 | 49 |
| 74 | Multiple-Filled Skutterudites: High Thermoelectric Figure of Merit through Separately Optimizing Electrical and Thermal Transports. Journal of the American Chemical Society, 2011, 133, 7837-7846. | 6.6 | 1,242 |
| 75 | Electrical Transport Properties of Filled CoSb3 Skutterudites: A Theoretical Study. Journal of Electronic Materials, 2009, 38, 1397-1401. | 1.0 | 69 |
| 76 | Thermoelectric Materials for Space and Automotive Power Generation. MRS Bulletin, 2006, 31, 224-229. | 1.7 | 591 |
| 77 | Systematic Evaluation of Carbon Hosts for High-Energy Rechargeable Lithium-Metal Batteries. ACS Energy Letters, 0, , 1550-1559. | 8.8 | 20 |