

# Yun Zheng

## List of Publications by Citations

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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.

88

papers

4,175

citations

37

h-index

63

g-index

96

ext. papers

5,234

ext. citations

10.4

avg, IF

5.79

L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 88 | Fe-Doped Ni C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12566-12570         | 16.4 | 240       |
| 87 | Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , <b>2017</b> , 11, 11031-11040  | 16.7 | 239       |
| 86 | Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401391 | 21.8 | 232       |
| 85 | Ultrathin Porous NiFeV Ternary Layer Hydroxide Nanosheets as a Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , <b>2018</b> , 14, 1703257                                   | 11   | 206       |
| 84 | Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , <b>2018</b> , 51, 340-348                                      | 17.1 | 202       |
| 83 | 1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe <sub>2</sub> @C core-shell nanorods for advanced sodium ion batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 48-55            | 19.4 | 150       |
| 82 | Self-Assemble and In Situ Formation of Ni <sub>1-x</sub> Fe <sub>x</sub> PS <sub>3</sub> Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801127 | 21.8 | 131       |
| 81 | Co S /MoS <sub>2</sub> Yolk-Shell Spheres for Advanced Li/Na Storage. <i>Small</i> , <b>2017</b> , 13, 1603490   | 11   | 127       |
| 80 | High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. <i>Nano Energy</i> , <b>2019</b> , 62, 94-102               | 17.1 | 127       |
| 79 | 2D Black Phosphorus for Energy Storage and Thermoelectric Applications. <i>Small</i> , <b>2017</b> , 13, 1700661   | 11   | 113       |
| 78 | Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , <b>2019</b> , 13, 7975-7984  | 16.7 | 104       |
| 77 | Tuning ZnSe/CoSe in MOF-derived N-doped porous carbon/CNTs for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15710-15717  | 13   | 98        |
| 76 | Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , <b>2018</b> , 47, 257-265  | 17.1 | 88        |
| 75 | Scalable synthesis of SnS/S-doped graphene composites for superior Li/Na-ion batteries. <i>Nanoscale</i> , <b>2017</b> , 9, 14820-14825  | 7.7  | 78        |
| 74 | Directly anchoring 2D NiCo metal-organic frameworks on few-layer black phosphorus for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 783-790                             | 13   | 77        |
| 73 | n-Type SnSe <sub>2</sub> Oriented-Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702167   | 21.8 | 76        |
| 72 | Functionalized few-layer black phosphorus with super-wettability towards enhanced reaction kinetics for rechargeable batteries. <i>Nano Energy</i> , <b>2017</b> , 40, 576-586                                       | 17.1 | 75        |

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|----|--|------|----|
| 71 | O <sub>2</sub> plasma and cation tuned nickel phosphide nanosheets for highly efficient overall water splitting. <i>Nano Energy</i> , <b>2018</b> , 54, 82-90  | 17.1 | 73 |
| 70 | NbS Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li and Na Storage. <i>ACS Nano</i> , <b>2017</b> , 11, 10599-10607   | 16.7 | 68 |
| 69 | Recent advances in conducting poly(3,4-ethylenedioxythiophene):polystyrene sulfonate hybrids for thermoelectric applications. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8858-8873   | 7.1  | 65 |
| 68 | High Thermoelectric Performance in Polycrystalline SnSe Via Dual-Doping with Ag/Na and Nanostructuring With Ag <sub>8</sub> SnSe <sub>6</sub> . <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803072  | 21.8 | 64 |
| 67 | Mechanism Investigation of High-Performance Li-Polysulfide Batteries Enabled by Tungsten Disulfide Nanopetals. <i>ACS Nano</i> , <b>2018</b> , 12, 9504-9512   | 16.7 | 61 |
| 66 | Low effective mass and carrier concentration optimization for high performance p-type Mg <sub>2</sub> (1-x)Li <sub>2x</sub> Si <sub>0.3</sub> Sn <sub>0.7</sub> solid solutions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 23576-83 | 3.6  | 59 |
| 65 | Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706637   | 24   | 57 |
| 64 | High thermoelectric performance of nonequilibrium synthesized CeFe <sub>4</sub> Sb <sub>12</sub> composite with multi-scaled nanostructures. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 183904  | 3.4  | 57 |
| 63 | General and Scalable Solid-State Synthesis of 2D MPS <sub>3</sub> (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , <b>2017</b> , 1, 1700304   | 12.8 | 57 |
| 62 | Few-layer NiPS nanosheets as bifunctional materials for Li-ion storage and oxygen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 4890-4896   | 7.7  | 55 |
| 61 | Advanced Catalytic Materials for Ethanol Oxidation in Direct Ethanol Fuel Cells. <i>Catalysts</i> , <b>2020</b> , 10, 1664   | 16.6 | 51 |
| 60 | Doxorubicin-Conjugated PAMAM Dendrimers for pH-Responsive Drug Release and Folic Acid-Targeted Cancer Therapy. <i>Pharmaceutics</i> , <b>2018</b> , 10,  | 6.4  | 51 |
| 59 | Black Phosphorus and Carbon Nitride Hybrid Photocatalysts for Photoredox Reactions. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002021   | 15.6 | 47 |
| 58 | Enhanced power factor of Mg <sub>2</sub> Si <sub>0.3</sub> Sn <sub>0.7</sub> synthesized by a non-equilibrium rapid solidification method. <i>Scripta Materialia</i> , <b>2015</b> , 96, 1-4   | 5.6  | 45 |
| 57 | Defect engineering in thermoelectric materials: what have we learned?. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 9022-9054   | 58.5 | 45 |
| 56 | Fe-Doped Ni <sub>3</sub> C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12740-12744   | 3.6  | 43 |
| 55 | Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33779-33784   | 9.5  | 42 |
| 54 | Recent advances in printable secondary batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22442-22458   | 3    | 40 |

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|----|---|------|----|
| 53 | High-Temperature Mechanical and Thermoelectric Properties of p-Type Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> Commercial Zone Melting Ingots. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 2017-2022  | 1.9  | 40 |
| 52 | Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805075              | 15.6 | 38 |
| 51 | Highly Dispersive MoP Nanoparticles Anchored on Reduced Graphene Oxide Nanosheets for an Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26258-26263 | 9.5  | 37 |
| 50 | Constructing Multifunctional Heterostructure of Fe O @Ni Se Nanotubes. <i>Small</i> , <b>2018</b> , 14, e1704065  | 11   | 33 |
| 49 | Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18880-18890   | 13   | 33 |
| 48 | Modulation of the doping level of PEDOT:PSS film by treatment with hydrazine to improve the Seebeck coefficient.. <i>RSC Advances</i> , <b>2020</b> , 10, 1786-1792   | 3.7  | 32 |
| 47 | Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2457-2473   | 7.8  | 30 |
| 46 | Thermal stability of Mg <sub>2</sub> Si <sub>0.3</sub> Sn <sub>0.7</sub> under different heat treatment conditions. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10381-10387                                    | 7.1  | 29 |
| 45 | Recent advances in nanostructured metal phosphides as promising anode materials for rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19113-19132  | 13   | 29 |
| 44 | Elucidating the reaction kinetics of lithium-sulfur batteries by operando XRD based on an open-hollow S@MnO <sub>2</sub> cathode. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6651-6658                        | 13   | 28 |
| 43 | Scalable synthesis of a foam-like FeS nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , <b>2018</b> , 11, 178-184                                       | 7.7  | 27 |
| 42 | Toward high thermoelectric performance p-type FeSb <sub>2.2</sub> Te <sub>0.8</sub> via in situ formation of InSb nanoinclusions. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8372-8380                        | 7.1  | 26 |
| 41 | Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , <b>2018</b> , 12, 12902-12911   | 16.7 | 26 |
| 40 | Origin of High Thermoelectric Performance in Earth-Abundant Phosphide-Tetrahedrite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9150-9157   | 9.5  | 25 |
| 39 | Improved Thermoelectric Properties and Environmental Stability of Conducting PEDOT:PSS Films Post-treated With Imidazolium Ionic Liquids. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 870                                | 5    | 24 |
| 38 | Effective enhancement of thermoelectric and mechanical properties of germanium telluride via rhenium-doping. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16940-16948   | 7.1  | 24 |
| 37 | Improved Alignment of PEDOT:PSS Induced by Crystallization of "Green" Dimethylsulfone Molecules to Enhance the Polymer Thermoelectric Performance. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 783                       | 5    | 23 |
| 36 | Thermoelectric transport properties of p-type silver-doped PbS within situ Ag <sub>2</sub> S nanoprecipitates. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 115303   | 3    | 20 |

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|----|---|------|----|
| 35 | Thermal Stability and Mechanical Response of Bi <sub>2</sub> Te <sub>3</sub> -Based Materials for Thermoelectric Applications. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2078-2089   | 6.1  | 20 |
| 34 | Thermal Stability of P-Type BiSbTe Alloys Prepared by Melt Spinning and Rapid Sintering. <i>Materials</i> , <b>2017</b> , 10,   | 3.5  | 18 |
| 33 | Application of electro dialysis to remove copper and cyanide from simulated and real gold mine effluents. <i>RSC Advances</i> , <b>2015</b> , 5, 19807-19817  | 3.7  | 18 |
| 32 | Enhanced thermoelectric performance of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) (PEDOT:PSS) with long-term humidity stability via sequential treatment with trifluoroacetic acid. <i>Polymer International</i> , <b>2020</b> , 69, 84-92 | 3.3  | 18 |
| 31 | Enhanced Thermoelectric Performance of Nanocrystalline Indium Tin Oxide Pellets by Modulating the Density and Nanoporosity Via Spark Plasma Sintering. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10156-10165                                   | 5.6  | 18 |
| 30 | Unraveling the Critical Role of Melt-Spinning Atmosphere in Enhancing the Thermoelectric Performance of p-Type BiSbTe Alloys. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36186-36195   | 9.5  | 17 |
| 29 | S-Doped TiSe Nanoplates/Fe O Nanoparticles Heterostructure. <i>Small</i> , <b>2017</b> , 13, 1702181  | 11   | 16 |
| 28 | Enhanced Thermoelectric Properties of La-Doped ZrNiSn Half-Heusler Compound. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 3563-3570   | 1.9  | 16 |
| 27 | Nano-confined CoSe <sub>2</sub> /Mo <sub>2</sub> C nanoparticles encapsulated into porous carbon nanofibers for superior lithium and sodium storage. <i>Materials Today Energy</i> , <b>2018</b> , 10, 317-324  | 7    | 14 |
| 26 | A Simulation Study on a Thermoelectric Generator for Waste Heat Recovery from a Marine Engine. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2908-2914   | 1.9  | 12 |
| 25 | Sodium formaldehyde sulfoxylate, an ionic-type, water-soluble reducing reagent to effectively improve seebeck coefficient of PEDOT:PSS film. <i>Organic Electronics</i> , <b>2020</b> , 81, 105682  | 3.5  | 11 |
| 24 | High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu <sub>2</sub> SnSe <sub>3</sub> . <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100661   | 21.8 | 11 |
| 23 | CoSe-Decorated NbSe Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37773-37778   | 9.5  | 10 |
| 22 | Binary treatment of PEDOT:PSS films with nitric acid and imidazolium-based ionic liquids to improve the thermoelectric properties. <i>Materials Advances</i> , <b>2020</b> , 1, 3233-3242   | 3.3  | 9  |
| 21 | Enhancement of Thermoelectric Performance in CuSbSe Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , <b>2018</b> , 14, e1803092  | 11   | 9  |
| 20 | Preparation of Covalent-Ionically Cross-Linked UiO-66-NH/Sulfonated Aromatic Composite Proton Exchange Membranes With Excellent Performance. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 56  | 5    | 8  |
| 19 | Photoresponsive Thermoelectric Materials Derived from Fullerene-C <sub>60</sub> PEDOT Hybrid Polymers. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6726-6734   | 6.1  | 8  |
| 18 | Thermoelectric Properties of Ga/Ag Codoped Type-III Ba <sub>2</sub> TeCl <sub>2</sub> Clathrates with in Situ Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19172-8  | 9.5  | 8  |

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|----|---|-----|---|
| 17 | Compressive Fatigue Behavior and Its Influence on the Thermoelectric Properties of p-Type BiSbTe Alloys. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40091-40098  | 9.5 | 7 |
| 16 | Precursor-Based Synthesis of Porous Colloidal Particles towards Highly Efficient Catalysts. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10280-10290   | 4.8 | 7 |
| 15 | Solution-Based Synthesis and Processing of Metal Chalcogenides for Thermoelectric Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1511   | 2.6 | 6 |
| 14 | Hydrogenated vanadium oxides as an advanced anode material in lithium ion batteries. <i>Nano Research</i> , <b>2017</b> , 10, 4266-4273   | 10  | 5 |
| 13 | Boosting the Electrochemical Performance of LiNiCoMnO by Rough Coating with the Superionic Conductor LiLaZrO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54916-54923   | 9.5 | 5 |
| 12 | Ultrafast and low-cost preparation of Mg <sub>2</sub> (Si <sub>0.3</sub> Sn <sub>0.7</sub> ) <sub>1-x</sub> Sb <sub>x</sub> with superior thermoelectric performance by self-propagating high-temperature synthesis. <i>Scripta Materialia</i> , <b>2019</b> , 162, 507-511 | 5.6 | 5 |
| 11 | Upcycling Silicon Photovoltaic Waste into Thermoelectrics.. <i>Advanced Materials</i> , <b>2022</b> , e2110518  | 24  | 5 |
| 10 | Enhancement of the thermoelectric performance of CuInTe <sub>2</sub> via SnO <sub>2</sub> in situ replacement. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 4732-4737  | 2.1 | 4 |
| 9  | Rationally constructing a hierarchical two-dimensional NiCo metal-organic framework/graphene hybrid for highly efficient Li <sup>+</sup> ion storage. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 4589-4595   | 7.8 | 4 |
| 8  | The electrochemical property and crystal structure of Li <sub>1+x</sub> Ni <sub>0.45</sub> Co <sub>0.1</sub> Mn <sub>0.45</sub> O <sub>2</sub> (0.05 ≤ x ≤ 0.4) cathode materials under 4.6V cut-off. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 831, 154489    | 5.7 | 2 |
| 7  | Cold-Sintered Bi <sub>2</sub> Te <sub>3</sub> -Based Materials for Engineering Nanograined Thermoelectrics. <i>ACS Applied Energy Materials</i> ,   | 6.1 | 2 |
| 6  | Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe <sub>2</sub> Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small 50/2018). <i>Small</i> , <b>2018</b> , 14, 1870241                                | 11  | 2 |
| 5  | Facile and Powerful In Situ Polymerization Strategy for Sulfur-Based All-Solid Polymer Electrolytes in Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34274-34281   | 9.5 | 2 |
| 4  | Synergistically Enhanced Thermoelectric Performance of CuSnSe-Based Composites Ag Doping Balance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 55178-55187   | 9.5 | 1 |
| 3  | Li <sub>0.35</sub> La <sub>0.55</sub> TiO <sub>3</sub> nanofibers filled poly (ethylene carbonate) composite electrolyte with enhanced ion conduction and electrochemical stability. <i>Thin Solid Films</i> , <b>2021</b> , 734, 138835                                    | 2.2 | 1 |
| 2  | Layered Tin Phosphide Composites as Promising Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,   | 6.1 | 1 |
| 1  | Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270144  | 24  |   |