

Yun Zheng

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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	Upcycling Silicon Photovoltaic Waste into Thermoelectrics.. <i>Advanced Materials</i> , 2022 , e2110518	24	5
87	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022 , 34, 2270144	24	
86	Synergistically Enhanced Thermoelectric Performance of CuSnSe-Based Composites Ag Doping Balance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55178-55187	9.5	1
85	Boosting the Electrochemical Performance of LiNiCoMnO by Rough Coating with the Superionic Conductor LiLaZrO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54916-54923	9.5	5
84	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu ₂ SnSe ₃ . <i>Advanced Energy Materials</i> , 2021 , 11, 2100661	21.8	11
83	Rationally constructing a hierarchical two-dimensional NiCo metal-organic framework/graphene hybrid for highly efficient Li ⁺ ion storage. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4589-4595	7.8	4
82	Facile and Powerful In Situ Polymerization Strategy for Sulfur-Based All-Solid Polymer Electrolytes in Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34274-34281	9.5	2
81	Li _{0.35} La _{0.55} TiO ₃ nanofibers filled poly (ethylene carbonate) composite electrolyte with enhanced ion conduction and electrochemical stability. <i>Thin Solid Films</i> , 2021 , 734, 138835	2.2	1
80	Defect engineering in thermoelectric materials: what have we learned?. <i>Chemical Society Reviews</i> , 2021 , 50, 9022-9054	58.5	45
79	Black Phosphorus and Carbon Nitride Hybrid Photocatalysts for Photoredox Reactions. <i>Advanced Functional Materials</i> , 2020 , 30, 2002021	15.6	47
78	Preparation of Covalent-Ionically Cross-Linked UiO-66-NH/Sulfonated Aromatic Composite Proton Exchange Membranes With Excellent Performance. <i>Frontiers in Chemistry</i> , 2020 , 8, 56	5	8
77	Photoresponsive Thermoelectric Materials Derived from Fullerene-C ₆₀ PEDOT Hybrid Polymers. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6726-6734	6.1	8
76	Advanced Catalytic Materials for Ethanol Oxidation in Direct Ethanol Fuel Cells. <i>Catalysts</i> , 2020 , 10, 1664	4	51
75	Sodium formaldehyde sulfoxylate, an ionic-type, water-soluble reducing reagent to effectively improve seebeck coefficient of PEDOT:PSS film. <i>Organic Electronics</i> , 2020 , 81, 105682	3.5	11
74	Modulation of the doping level of PEDOT:PSS film by treatment with hydrazine to improve the Seebeck coefficient.. <i>RSC Advances</i> , 2020 , 10, 1786-1792	3.7	32
73	Origin of High Thermoelectric Performance in Earth-Abundant Phosphide-Tetrahedrite. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9150-9157	9.5	25
72	The electrochemical property and crystal structure of Li _{1+x} Ni _{0.45} Co _{0.1} Mn _{0.45} O ₂ (0.05 ≤ x ≤ 0.4) cathode materials under 4.6V cut-off. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154489	5.7	2

71	Thermal Stability and Mechanical Response of Bi ₂ Te ₃ -Based Materials for Thermoelectric Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2078-2089	6.1	20
70	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> , 2020 , 69, 84-92	3.3	18
69	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> , 2020 , 3, 10156-10165	5.6	18
68	Unraveling the Critical Role of Melt-Spinning Atmosphere in Enhancing the Thermoelectric Performance of p-Type BiSbTe Alloys. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36186-36195	9.5	17
67	Effective enhancement of thermoelectric and mechanical properties of germanium telluride via rhenium-doping. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16940-16948	7.1	24
66	Binary treatment of PEDOT:PSS films with nitric acid and imidazolium-based ionic liquids to improve the thermoelectric properties. <i>Materials Advances</i> , 2020 , 1, 3233-3242	3.3	9
65	Recent advances in nanostructured metal phosphides as promising anode materials for rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19113-19132	13	29
64	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18880-18890	13	33
63	Compressive Fatigue Behavior and Its Influence on the Thermoelectric Properties of p-Type BiSbTe Alloys. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40091-40098	9.5	7
62	Directly anchoring 2D NiCo metal-organic frameworks on few-layer black phosphorus for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 783-790	13	77
61	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> , 2019 , 62, 94-102	17.1	127
60	Solution-Based Synthesis and Processing of Metal Chalcogenides for Thermoelectric Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1511	2.6	6
59	Improved Thermoelectric Properties and Environmental Stability of Conducting PEDOT:PSS Films Post-treated With Imidazolium Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019 , 7, 870	5	24
58	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019 , 13, 7975-7984	16.7	104
57	Improved Alignment of PEDOT:PSS Induced by Crystallization of "Green" Dimethylsulfone Molecules to Enhance the Polymer Thermoelectric Performance. <i>Frontiers in Chemistry</i> , 2019 , 7, 783	5	23
56	Elucidating the reaction kinetics of lithium-sulfur batteries by operando XRD based on an open-hollow S@MnO ₂ cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6651-6658	13	28
55	High Thermoelectric Performance in Polycrystalline SnSe Via Dual-Doping with Ag/Na and Nanostructuring With Ag ₈ SnSe ₆ . <i>Advanced Energy Materials</i> , 2019 , 9, 1803072	21.8	64
54	Ultrafast and low-cost preparation of Mg ₂ (Si _{0.3} Sn _{0.7}) _{1-x} Sb _x with superior thermoelectric performance by self-propagating high-temperature synthesis. <i>Scripta Materialia</i> , 2019 , 162, 507-511	5.6	5

53	Scalable synthesis of a foam-like FeS nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , 2018 , 11, 178-184	7.7	27
52	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018 , 47, 257-265	17.1	88
51	Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. <i>Advanced Materials</i> , 2018 , 30, e1706637	24	57
50	Precursor-Based Synthesis of Porous Colloidal Particles towards Highly Efficient Catalysts. <i>Chemistry - A European Journal</i> , 2018 , 24, 10280-10290	4.8	7
49	Few-layer NiPS nanosheets as bifunctional materials for Li-ion storage and oxygen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 4890-4896	7.7	55
48	Enhancement of the thermoelectric performance of CuInTe ₂ via SnO ₂ in situ replacement. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4732-4737	2.1	4
47	Ultrathin Porous NiFeV Ternary Layer Hydroxide Nanosheets as a Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2018 , 14, 1703257	11	206
46	Constructing Multifunctional Heterostructure of Fe O @Ni Se Nanotubes. <i>Small</i> , 2018 , 14, e1704065	11	33
45	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe ₂ @C core-shell nanorods for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2018 , 10, 48-55	19.4	150
44	Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , 2018 , 51, 340-348	17.1	202
43	Self-Assemble and In Situ Formation of Ni _{1-x} Fe _x PS ₃ Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1801127	21.8	131
42	Tuning ZnSe/CoSe in MOF-derived N-doped porous carbon/CNTs for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15710-15717	13	98
41	Recent advances in conducting poly(3,4-ethylenedioxythiophene):polystyrene sulfonate hybrids for thermoelectric applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8858-8873	7.1	65
40	Highly Dispersive MoP Nanoparticles Anchored on Reduced Graphene Oxide Nanosheets for an Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26258-26263	9.5	37
39	Mechanism Investigation of High-Performance Li-Polysulfide Batteries Enabled by Tungsten Disulfide Nanopetals. <i>ACS Nano</i> , 2018 , 12, 9504-9512	16.7	61
38	n-Type SnSe ₂ Oriented-Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1702167	21.8	76
37	Nano-confined CoSe ₂ /Mo ₂ C nanoparticles encapsulated into porous carbon nanofibers for superior lithium and sodium storage. <i>Materials Today Energy</i> , 2018 , 10, 317-324	7	14
36	Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe ₂ Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small 50/2018). <i>Small</i> , 2018 , 14, 1870241	11	2

35	Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , 2018 , 12, 12902-12911	16.7	26
34	Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33779-33784	9.5	42
33	Doxorubicin-Conjugated PAMAM Dendrimers for pH-Responsive Drug Release and Folic Acid-Targeted Cancer Therapy. <i>Pharmaceutics</i> , 2018 , 10,	6.4	51
32	O ₂ plasma and cation tuned nickel phosphide nanosheets for highly efficient overall water splitting. <i>Nano Energy</i> , 2018 , 54, 82-90	17.1	73
31	CoSe-Decorated NbSe Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37773-37778	9.5	10
30	Enhancement of Thermoelectric Performance in CuSbSe Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , 2018 , 14, e1803092	11	9
29	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1805075	15.6	38
28	Co S /MoS ₂ Yolk-Shell Spheres for Advanced Li/Na Storage. <i>Small</i> , 2017 , 13, 1603490	11	127
27	2D Black Phosphorus for Energy Storage and Thermoelectric Applications. <i>Small</i> , 2017 , 13, 1700661	11	113
26	A Simulation Study on a Thermoelectric Generator for Waste Heat Recovery from a Marine Engine. <i>Journal of Electronic Materials</i> , 2017 , 46, 2908-2914	1.9	12
25	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , 2017 , 11, 11031-11040	16.7	239
24	Recent advances in printable secondary batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22442-22458	3	40
23	NbS Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li and Na Storage. <i>ACS Nano</i> , 2017 , 11, 10599-10607	16	68
22	S-Doped TiSe Nanoplates/Fe ₃ O ₄ Nanoparticles Heterostructure. <i>Small</i> , 2017 , 13, 1702181	11	16
21	Scalable synthesis of SnS/S-doped graphene composites for superior Li/Na-ion batteries. <i>Nanoscale</i> , 2017 , 9, 14820-14825	7.7	78
20	Functionalized few-layer black phosphorus with super-wettability towards enhanced reaction kinetics for rechargeable batteries. <i>Nano Energy</i> , 2017 , 40, 576-586	17.1	75
19	Hydrogenated vanadium oxides as an advanced anode material in lithium ion batteries. <i>Nano Research</i> , 2017 , 10, 4266-4273	10	5
18	Fe-Doped Ni ₃ C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2017 , 129, 12740-12744	3.6	43

17	Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2457-2473	7.8	30
16	Fe-Doped Ni C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12566-12570	16.4	240
15	General and Scalable Solid-State Synthesis of 2D MPS ₃ (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , 2017 , 1, 1700304	12.8	57
14	Thermal Stability of P-Type BiSbTe Alloys Prepared by Melt Spinning and Rapid Sintering. <i>Materials</i> , 2017 , 10,	3.5	18
13	Thermal stability of Mg ₂ Si _{0.3} Sn _{0.7} under different heat treatment conditions. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10381-10387	7.1	29
12	Toward high thermoelectric performance p-type FeSb _{2.2} Te _{0.8} via in situ formation of InSb nanoinclusions. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8372-8380	7.1	26
11	Enhanced power factor of Mg ₂ Si _{0.3} Sn _{0.7} synthesized by a non-equilibrium rapid solidification method. <i>Scripta Materialia</i> , 2015 , 96, 1-4	5.6	45
10	Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2015 , 5, 1401391	21.8	232
9	Enhanced Thermoelectric Properties of La-Doped ZrNiSn Half-Heusler Compound. <i>Journal of Electronic Materials</i> , 2015 , 44, 3563-3570	1.9	16
8	Thermoelectric Properties of Ga/Ag Codoped Type-III Ba ₃ Ge ₃ Clathrates with in Situ Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19172-8	9.5	8
7	Application of electro dialysis to remove copper and cyanide from simulated and real gold mine effluents. <i>RSC Advances</i> , 2015 , 5, 19807-19817	3.7	18
6	High-Temperature Mechanical and Thermoelectric Properties of p-Type Bi _{0.5} Sb _{1.5} Te ₃ Commercial Zone Melting Ingots. <i>Journal of Electronic Materials</i> , 2014 , 43, 2017-2022	1.9	40
5	Low effective mass and carrier concentration optimization for high performance p-type Mg ₂ (1-x)Li _{2x} Si _{0.3} Sn _{0.7} solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23576-83	3.6	59
4	Thermoelectric transport properties of p-type silver-doped PbS within situ Ag ₂ S nanoprecipitates. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 115303	3	20
3	High thermoelectric performance of nonequilibrium synthesized CeFe ₄ Sb ₁₂ composite with multi-scaled nanostructures. <i>Applied Physics Letters</i> , 2013 , 103, 183904	3.4	57
2	Cold-Sintered Bi ₂ Te ₃ -Based Materials for Engineering Nanograined Thermoelectrics. <i>ACS Applied Energy Materials</i> ,	6.1	2
1	Layered Tin Phosphide Composites as Promising Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	1