

Jihui Yang

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.

76
papers

10,017
citations

41
h-index

77
g-index

77
ext. papers

12,514
ext. citations

15.5
avg, IF

6.37
L-index

#	Paper	IF	Citations
76	The Quest for Stable Potassium-Ion Battery Chemistry. <i>Advanced Materials</i> , 2021 , e2106876	24	10
75	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 5044-5056	35.4	9
74	Catalyzing zinc-ion intercalation in hydrated vanadates for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7713-7723	13	41
73	Understanding and applying coulombic efficiency in lithium metal batteries. <i>Nature Energy</i> , 2020 , 5, 561-568	66.8	201
72	Apparatus design for measuring of the strain dependence of the Seebeck coefficient of single crystals. <i>Review of Scientific Instruments</i> , 2020 , 91, 023902	1.7	0
71	Defect-mediated Rashba engineering for optimizing electrical transport in thermoelectric BiTeI. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
70	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. <i>Chemical Reviews</i> , 2020 , 120, 7795-7866	68.1	347
69	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu Se Composites. <i>Advanced Materials</i> , 2020 , 32, e2003730	24	49
68	Expanded hydrated vanadate for high-performance aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2273-2285	35.4	277
67	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. <i>Nature Communications</i> , 2019 , 10, 2814	17.4	46
66	A multi-functional interface derived from thiol-modified mesoporous carbon in lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13372-13381	13	11
65	Understanding the electrochemical potential and diffusivity of MnO/C nanocomposites at various charge/discharge states. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7831-7842	13	23
64	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 2036-2047	9.6	119
63	Tuning self-healing properties of stiff, ion-conductive polymers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6773-6783	13	19
62	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019 , 4, 180-186	62.3	1202
61	Rationalizing the interphase stability of Li doped-Li ₇ La ₃ Zr ₂ O ₁₂ via automated reaction screening and machine learning. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19961-19969	13	34
60	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , 2019 , 4, 2995-3001	20.1	138

59	Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. <i>Chemistry of Materials</i> , 2018 , 30, 3101-3109	9.6	86
58	The role of the solid electrolyte interphase layer in preventing Li dendrite growth in solid-state batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1803-1810	35.4	220
57	Fabrication and Thermoelectric Properties of n-Type CoSbTe Using Selective Laser Melting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13669-13674	9.5	25
56	Thermo-element geometry optimization for high thermoelectric efficiency. <i>Energy</i> , 2018 , 147, 672-680	7.9	15
55	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. <i>National Science Review</i> , 2018 , 5, 59-69	10.8	19
54	Separating electronic and ionic conductivity in mix-conducting layered lithium transition-metal oxides. <i>Journal of Power Sources</i> , 2018 , 393, 75-82	8.9	59
53	Dynamic process of the resonant phonon scattering in fully filled skutterudites. <i>Physical Review B</i> , 2018 , 98,	3.3	7
52	Finite element analysis of temperature and stress fields during the selective laser melting process of thermoelectric SnTe. <i>Journal of Materials Processing Technology</i> , 2018 , 261, 74-85	5.3	38
51	Electrochemical and interfacial behavior of all solid state batteries using Li ₁₀ SnP ₂ S ₁₂ solid electrolyte. <i>Journal of Power Sources</i> , 2018 , 396, 824-830	8.9	32
50	Water-Lubricated Intercalation in V O \square H O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703725	24	725
49	Designing solvate ionogel electrolytes with very high room-temperature conductivity and lithium transference number. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24100-24106	13	9
48	Thermoelectric properties of n-type ZrNiSn prepared by rapid non-equilibrium laser processing.. <i>RSC Advances</i> , 2018 , 8, 15796-15803	3.7	14
47	Resonant level-induced high thermoelectric response in indium-doped GeTe. <i>NPG Asia Materials</i> , 2017 , 9, e343-e343	10.3	129
46	The \square electron crystal behavior in copper chalcogenides Cu ₂ X (X = Se, S). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5098-5105	13	63
45	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. <i>RSC Advances</i> , 2017 , 7, 21439-21445	3.7	28
44	Preparation of n-type Bi ₂ Te ₃ thermoelectric materials by non-contact dispenser printing combined with selective laser melting. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700067	2.5	27
43	Field-Effect Tuned Adsorption Dynamics of VSe Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2017 , 17, 4109-4115	11.5	98
42	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier-phonon coupling. <i>Energy and Environmental Science</i> , 2017 , 10, 1590-1599	35.4	94

41	Solid-State Explosive Reaction for Nanoporous Bulk Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1701148	24	82
40	Facile room temperature solventless synthesis of high thermoelectric performance Ag ₂ Se via a dissociative adsorption reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23243-23251	13	52
39	Superparamagnetic enhancement of thermoelectric performance. <i>Nature</i> , 2017 , 549, 247-251	50.4	314
38	Thermoelectric performance of CuFeS ₂ +2x composites prepared by rapid thermal explosion. <i>NPG Asia Materials</i> , 2017 , 9, e390-e390	10.3	29
37	Magnetolectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. <i>Nature Nanotechnology</i> , 2017 , 12, 55-60	28.7	155
36	Interfacial behaviours between lithium ion conductors and electrode materials in various battery systems. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15266-15280	13	155
35	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016 , 1,	62.3	1461
34	Minimum Thermal Conductivity in Weak Topological Insulators with Bismuth-Based Stack Structure. <i>Advanced Functional Materials</i> , 2016 , 26, 5360-5367	15.6	21
33	High-performance n-type YbxCo ₄ Sb ₁₂ : from partially filled skutterudites towards composite thermoelectrics. <i>NPG Asia Materials</i> , 2016 , 8, e285-e285	10.3	68
32	On the tuning of electrical and thermal transport in thermoelectrics: an integrated theory-experiment perspective. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	290
31	Structure family and polymorphous phase transition in the compounds with soft sublattice: Cu ₂ Se as an example. <i>Journal of Chemical Physics</i> , 2016 , 144, 194502	3.9	23
30	Electronegative guests in CoSb ₃ . <i>Energy and Environmental Science</i> , 2016 , 9, 2090-2098	35.4	67
29	High thermoelectric performance in Te-free (Bi,Sb) ₂ Se ₃ via structural transition induced band convergence and chemical bond softening. <i>Energy and Environmental Science</i> , 2016 , 9, 3436-3447	35.4	123
28	Multi-localization transport behaviour in bulk thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 6197	17.4	90
27	Enhanced Thermoelectric Performance in Cu-Intercalated BiTeI by Compensation Weakening Induced Mobility Improvement. <i>Scientific Reports</i> , 2015 , 5, 14319	4.9	29
26	Intrinsic low thermal conductivity in weakly ionic rocksalt structures. <i>Physical Review B</i> , 2015 , 92,	3.3	8
25	Band Structure Engineering and Thermoelectric Properties of Charge-Compensated Filled Skutterudites. <i>Scientific Reports</i> , 2015 , 5, 14641	4.9	35
24	Diverse lattice dynamics in ternary Cu-Sb-Se compounds. <i>Scientific Reports</i> , 2015 , 5, 13643	4.9	37

23	On Intensifying Carrier Impurity Scattering to Enhance Thermoelectric Performance in Cr-Doped CeyCo ₄ Sb ₁₂ . <i>Advanced Functional Materials</i> , 2015 , 25, 6660-6670	15.6	65
22	Conductivity-limiting bipolar thermal conductivity in semiconductors. <i>Scientific Reports</i> , 2015 , 5, 10136	4.9	97
21	Compound defects and thermoelectric properties in ternary CuAgSe-based materials. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13662-13670	13	45
20	Probing the initiation of voltage decay in Li-rich layered cathode materials at the atomic scale. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5385-5391	13	69
19	Part-crystalline part-liquid state and rattling-like thermal damping in materials with chemical-bond hierarchy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15031-5	11.5	181
18	Probing Electrochemical Cycling Stability of Li-ion Cathode Materials at Atomic-scale. <i>Microscopy and Microanalysis</i> , 2014 , 20, 452-453	0.5	27
17	Polytypism in superhard transition-metal triborides. <i>Scientific Reports</i> , 2014 , 4, 5063	4.9	13
16	Thermopower enhancement in quantum wells with the Rashba effect. <i>Applied Physics Letters</i> , 2014 , 105, 202115	3.4	14
15	Two-dimensional thermoelectrics with Rashba spin-split bands in bulk BiTeI. <i>Physical Review B</i> , 2014 , 90,	3.3	59
14	Charge-Compensated Compound Defects in Ga-containing Thermoelectric Skutterudites. <i>Advanced Functional Materials</i> , 2013 , 23, 3194-3203	15.6	90
13	Condensation-related thermoelectric properties and formation of coherent nano-inclusions in Te-substituted In ₄ Se ₃ compounds. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15342	13	4
12	Enhancement of thermoelectric performance in slightly charge-compensated CeyCo ₄ Sb ₁₂ skutterudites. <i>Applied Physics Letters</i> , 2013 , 103, 062103	3.4	21
11	Thermoelectric performance of p-type skutterudites YbxFe ₄ (1-y)Pt _y Sb ₁₂ (0.8 ≤ x ≤ 1, y = 1 and 0.5). <i>Journal of Applied Physics</i> , 2013 , 113, 143708	2.5	12
10	Electron and Phonon Transport in n- and p-type Skutterudites. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1490, 9-18		5
9	Rational Design of Advanced Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2013 , 3, 549-565	21.8	225
8	Theoretical Study on Structural Stability of Fully Filled p-Type Skutterudites RETM ₄ Sb ₁₂ (RE = Rare Earth; TM = Fe, Ru). <i>Journal of Electronic Materials</i> , 2013 , 42, 2492-2497	1.9	19
7	Enhanced thermoelectric properties of Bi ₂ (Te _{1-x} Sex) ₃ -based compounds as n-type legs for low-temperature power generation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20943		122
6	Thermoelectric properties of Ni-doped CeFe ₄ Sb ₁₂ skutterudites. <i>Journal of Applied Physics</i> , 2012 , 111, 023705	2.5	46

5	Power factor enhancement in light valence band p-type skutterudites. <i>Applied Physics Letters</i> , 2012 , 101, 022101	3.4	24
4	Multiple-filled skutterudites: high thermoelectric figure of merit through separately optimizing electrical and thermal transports. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7837-46	16.4	1071
3	Electrical Transport Properties of Filled CoSb ₃ Skutterudites: A Theoretical Study. <i>Journal of Electronic Materials</i> , 2009 , 38, 1397-1401	1.9	57
2	Thermoelectric Materials for Space and Automotive Power Generation. <i>MRS Bulletin</i> , 2006 , 31, 224-229	3.2	480
1	Systematic Evaluation of Carbon Hosts for High-Energy Rechargeable Lithium-Metal Batteries. <i>ACS Energy Letters</i> , 1550-1559	20.1	5