Wei-Di Liu

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.

72	2,258 citations	27	46
papers		h-index	g-index
76 ext. papers	3,211 ext. citations	12.7 avg, IF	5.84 L-index

#	Paper	IF	Citations
72	Scalable waste-plastic-derived carbon nanosheets with high contents of inbuilt nitrogen/sulfur sites for high performance potassium-ion hybrid capacitors. <i>Nano Energy</i> , 2022 , 95, 107015	17.1	2
71	High thermoelectric and mechanical performance in the n-type polycrystalline SnSe incorporated with multi-walled carbon nanotubes. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 55-61	9.1	5
70	Cheap, Large-Scale, and High-Performance Graphite-Based Flexible Thermoelectric Materials and Devices with Supernormal Industry Feasibility ACS Applied Materials & amp; Interfaces, 2022,	9.5	1
69	Dual-function engineering to construct ultra-stable anodes for potassium-ion hybrid capacitors: N, O-doped porous carbon spheres. <i>Nano Energy</i> , 2022 , 93, 106903	17.1	2
68	Se-alloying reducing lattice thermal conductivity of Ge0.95Bi0.05Te. <i>Journal of Materials Science and Technology</i> , 2022 , 106, 249-256	9.1	7
67	Simultaneously achieving high ZT and mechanical hardness in highly alloyed GeTe with symmetric nanodomains. <i>Chemical Engineering Journal</i> , 2022 , 441, 136131	14.7	9
66	Thermoelectric coolers: Infinite potentials for finite localized microchip cooling. <i>Journal of Materials Science and Technology</i> , 2022 , 121, 256-262	9.1	7
65	Ultrafast Porous Carbon Activation Promises High-Energy Density Supercapacitors Small, 2022, e2200)9 <u>5</u> 4	8
64	Achieving high thermoelectric properties in PEDOT:PSS/SWCNTs composite films by a combination of dimethyl sulfoxide doping and NaBH4 dedoping. <i>Carbon</i> , 2022 , 196, 718-726	10.4	1
63	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , 2022 , 446, 137278	14.7	1
62	Novel Thermal Diffusion Temperature Engineering Leading to High Thermoelectric Performance in Bi Te -Based Flexible Thin-Films <i>Advanced Science</i> , 2021 , e2103547	13.6	17
61	Impurity Removal Leading to High-Performance CoSb-Based Skutterudites with Synergistic Carrier Concentration Optimization and Thermal Conductivity Reduction. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 54185-54193	9.5	0
60	High near-room temperature figure of merit of n-type Bi2GeTe4-based thermoelectric materials via a stepwise optimization of carrier concentration. <i>Chemical Engineering Journal</i> , 2021 , 133775	14.7	4
59	High Carrier Mobility and High Figure of Merit in the CuBiSe2 Alloyed GeTe. <i>Advanced Energy Materials</i> , 2021 , 11, 2102913	21.8	16
58	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. <i>Applied Physics Reviews</i> , 2021 , 8, 041404	17.3	9
57	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe)85(AgSbTe2)15. <i>Energy Material Advances</i> , 2021 , 2021, 1-8	1	4
56	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021 , 11, 2100544	21.8	18

(2020-2021)

55	Rational Electronic and Structural Designs Advance BiCuSeO Thermoelectrics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101289	15.6	17
54	Simultaneously optimized thermoelectric performance of n-type Cu2Se alloyed Bi2Te3. <i>Journal of Solid State Chemistry</i> , 2021 , 296, 121987	3.3	4
53	Carbon allotrope hybrids advance thermoelectric development and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110800	16.2	46
52	Potassium-based electrochemical energy storage devices: Development status and future prospect. <i>Energy Storage Materials</i> , 2021 , 34, 85-106	19.4	21
51	Two-dimensional WSe2/SnSe p-n junctions secure ultrahigh thermoelectric performance in n-type Pb/I Co-doped polycrystalline SnSe. <i>Materials Today Physics</i> , 2021 , 16, 100306	8	34
50	Rational band engineering and structural manipulations inducing high thermoelectric performance in n-type CoSb3 thin films. <i>Nano Energy</i> , 2021 , 81, 105683	17.1	42
49	Synergistic Texturing and Bi/Sb-Te Antisite Doping Secure High Thermoelectric Performance in Bi0.5Sb1.5Te3-Based Thin Films. <i>Advanced Energy Materials</i> , 2021 , 11, 2102578	21.8	10
48	Synergistic band convergence and defect engineering boost thermoelectric performance of SnTe. Journal of Materials Science and Technology, 2021 , 86, 204-209	9.1	12
47	Boosting the thermoelectric performance of n-type Bi2S3 by hierarchical structure manipulation and carrier density optimization. <i>Nano Energy</i> , 2021 , 87, 106171	17.1	7
46	Double perovskite Pr2CoFeO6 thermoelectric oxide: Roles of Sr-doping and Micro/nanostructuring. <i>Chemical Engineering Journal</i> , 2021 , 425, 130668	14.7	9
45	Hierarchical Structures Advance Thermoelectric Properties of Porous n-type EAgSe. <i>ACS Applied Materials & Description of Pages and Action Materials & Description of Pages and Action Materials & Description of Pages and Action (No. 12).</i> 12, 51523-51529	9.5	29
44	Flexible Carbon-Fiber/Semimetal Bi Nanosheet Arrays as Separable and Recyclable Plasmonic Photocatalysts and Photoelectrocatalysts. <i>ACS Applied Materials & ACS APPLIED & ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	2 .5	123
43	Bi0.5Sb1.5Te3/PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , 2020 , 397, 125360	14.7	66
42	A synergy of strain loading and laser radiation in determining the high-performing electrical transports in the single Cu-doped SnSe microbelt. <i>Materials Today Physics</i> , 2020 , 13, 100198	8	13
41	A Survey of Artificial Intelligence Techniques Applied in Energy Storage Materials R&D. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	4
40	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2192-2199	6.1	12
39	Promising and Eco-Friendly Cu X-Based Thermoelectric Materials: Progress and Applications. <i>Advanced Materials</i> , 2020 , 32, e1905703	24	92
38	Texture-dependent thermoelectric properties of nano-structured Bi2Te3. <i>Chemical Engineering Journal</i> , 2020 , 388, 124295	14.7	72

37	Thermo-Responsive Nanomaterials for Thermoelectric Generation. <i>Springer Series in Materials Science</i> , 2020 , 269-293	0.9	
36	Cu2Se thermoelectrics: property, methodology, and device. <i>Nano Today</i> , 2020 , 35, 100938	17.9	57
35	Enhanced thermoelectric properties of nanostructured n-type Bi2Te3 by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020 , 391, 123513	14.7	58
34	Outstanding thermoelectric properties of solvothermal-synthesized Sn1BxInxAg2xTe micro-crystals through defect engineering and band tuning. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3978-3987	13	19
33	Synergistic effect approaching record-high figure of merit in the shear exfoliated n-type Bi2O2-2xTe2xSe. <i>Nano Energy</i> , 2020 , 69, 104394	17.1	24
32	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn1 IkSe via anisotropy and vacancy synergy. <i>Informa</i> IdMaterilly, 2020 , 2, 1201-1215	23.1	31
31	In situ crystal-amorphous compositing inducing ultrahigh thermoelectric performance of p-type Bi0.5Sb1.5Te3 hybrid thin films. <i>Nano Energy</i> , 2020 , 78, 105379	17.1	10
30	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41
29	Development Status and Prospects of Artificial Intelligence in the Field of Energy Conversion Materials. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	3
28	Thermoelectric Generators: Alternative Power Supply for Wearable Electrocardiographic Systems. <i>Advanced Science</i> , 2020 , 7, 2001362	13.6	84
27	Nanomanufacturing of RGO-CNT Hybrid Film for Flexible Aqueous Al-Ion Batteries. <i>Small</i> , 2020 , 16, e20	02:856	17
26	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 2000367	21.8	94
25	Realizing high thermoelectric properties of SnTe via synergistic band engineering and structure engineering. <i>Nano Energy</i> , 2019 , 65, 104056	17.1	70
24	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 8051-8059	9.5	27
23	Solvothermal synthesis of high-purity porous Cu1.7Se approaching low lattice thermal conductivity. <i>Chemical Engineering Journal</i> , 2019 , 375, 121996	14.7	21
22	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7212-721.	8 ^{7.1}	6
21	Carbon-Encapsulated Copper Sulfide Leading to Enhanced Thermoelectric Properties. <i>ACS Applied Materials & District Action Materials & District & District Action Materials & District </i>	9.5	22
20	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded Sn1\(\mathbb{\text{InxTe}}\) Microcrystals through Anharmonicity and Strain Engineering. ACS Applied Energy Materials, 2019, 2, 2965-2971	6.1	31

19	Kinetic condition driven phase and vacancy enhancing thermoelectric performance of low-cost and eco-friendly Cu2⊠S. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5366-5373	7.1	20
18	High Thermoelectric Performance in p-type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. <i>Advanced Energy Materials</i> , 2019 , 9, 1803242	21.8	99
17	High Porosity in Nanostructured -Type BiTe Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials & Discours (Materials & Discours)</i> , 11, 31237-31244	9.5	50
16	- Observation of the Continuous Phase Transition in Determining the High Thermoelectric Performance of Polycrystalline SnSe. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6512-6517	6.4	22
15	Anisotropy Controll Induced Unique Anisotropic Thermoelectric Performance in the n-Type Bi2Te2.7Se0.3 Thin Films. <i>Small Methods</i> , 2019 , 3, 1900582	12.8	38
14	Vapour-solid growth of MoxW1-xTe2 nanobelts by a facile chemical vapour deposition method. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 926-930	5.7	7
13	Eco-Friendly Higher Manganese Silicide Thermoelectric Materials: Progress and Future Challenges. <i>Advanced Energy Materials</i> , 2018 , 8, 1800056	21.8	90
12	Achieving high Figure of Merit in p-type polycrystalline Sn0.98Se via self-doping and anisotropy-strengthening. <i>Energy Storage Materials</i> , 2018 , 10, 130-138	19.4	79
11	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe inducing intensive crystal imperfections and defect phonon scattering. <i>Chemical Science</i> , 2018 , 9, 7376-7389	9.4	91
10	Enhancing thermoelectric performance of (Cu1-xAgx)2Se via CuAgSe secondary phase and porous design. <i>Sustainable Materials and Technologies</i> , 2018 , 17, e00076	5.3	20
9	Realizing High Thermoelectric Performance in n-Type Highly Distorted Sb-Doped SnSe Microplates via Tuning High Electron Concentration and Inducing Intensive Crystal Defects. <i>Advanced Energy Materials</i> , 2018 , 8, 1800775	21.8	86
8	Ag doping induced abnormal lattice thermal conductivity in Cu2Se. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13225-13231	7.1	40
7	High Thermoelectric Performance in Sintered Octahedron-Shaped Sn(CdIn) Te Microcrystals. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 38944-38952	9.5	27
6	Polycrystalline SnSe with Extraordinary Thermoelectric Property via Nanoporous Design. <i>ACS Nano</i> , 2018 , 12, 11417-11425	16.7	98
5	Arrays of Planar Vacancies in Superior Thermoelectric Ge1MJCdxBiyTe with Band Convergence. <i>Advanced Energy Materials</i> , 2018 , 8, 1801837	21.8	116
4	Effect of Microwave Treatment Upon Processing Oolitic High Phosphorus Iron Ore for Phosphorus Removal. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 1683-1694	2.5	14
3	Multifunctional Wearable Thermoelectrics for Personal Thermal Management. <i>Advanced Functional Materials</i> ,2200548	15.6	15
2	A Solvothermal Synthetic Environmental Design for High-Performance SnSe-Based Thermoelectric Materials. <i>Advanced Energy Materials</i> ,2200670	21.8	2

Synergistic Effect of Band and Nanostructure Engineering on the Boosted Thermoelectric Performance of n-Type Mg 3+ [(Sb, Bi) 2 Zintls. *Advanced Energy Materials*,2201086

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