

Chen-Guang Fu

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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.

87 papers	5,572 citations	34 h-index	74 g-index
91 ext. papers	6,952 ext. citations	11.5 avg, IF	5.97 L-index

#	Paper	IF	Citations
87	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1605884	17.4	742
86	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 8144	17.4	658
85	Band engineering of high performance p-type FeNbSb based half-Heusler thermoelectric materials for figure of merit $zT > 1$. <i>Energy and Environmental Science</i> , 2015 , 8, 216-220	35.4	368
84	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Half-Heusler Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 5123-5130	15.6	290
83	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Energy Materials</i> , 2015 , 5, 1500411	21.8	287
82	High Efficiency Half-Heusler Thermoelectric Materials for Energy Harvesting. <i>Advanced Energy Materials</i> , 2015 , 5, 1500588	21.8	279
81	High Band Degeneracy Contributes to High Thermoelectric Performance in p-Type Half-Heusler Compounds. <i>Advanced Energy Materials</i> , 2014 , 4, 1400600	21.8	198
80	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014 , 4, 6888	4.9	161
79	Hierarchical Chemical Bonds Contributing to the Intrinsically Low Thermal Conductivity in MgAgSb Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2017 , 27, 1604145	15.6	154
78	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1701313	21.8	128
77	High Performance $\text{Mg}_2(\text{Si},\text{Sn})$ Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2014 , 24, 3776-3781	15.6	117
76	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016 , 3, 1600035	13.6	106
75	Demonstration of a phonon-glass electron-crystal strategy in (Hf,Zr)NiSn half-Heusler thermoelectric materials by alloying. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22716-22722	13	101
74	High Performance MgAgSb Thermoelectric Materials for Low Temperature Power Generation. <i>Chemistry of Materials</i> , 2015 , 27, 909-913	9.6	98
73	Attaining high mid-temperature performance in $(\text{Bi},\text{Sb})_2\text{Te}_3$ thermoelectric materials via synergistic optimization. <i>NPG Asia Materials</i> , 2016 , 8, e302-e302	10.3	96
72	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co_2MnGa . <i>NPG Asia Materials</i> , 2019 , 11,	10.3	93
71	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit $zT > 2$ by multi-functional alloying. <i>Journal of Materiomics</i> , 2016 , 2, 141-149	6.7	89

70	Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. <i>Advanced Materials</i> , 2019 , 31, e1806622	24	84
69	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb) ₂ Te ₃ towards high thermoelectric performance. <i>Energy and Environmental Science</i> , 2019 , 12, 624-630	35.4	82
68	Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. <i>Advanced Energy Materials</i> , 2018 , 8, 1801258	21.8	80
67	Interrelation between atomic switching disorder and thermoelectric properties of ZrNiSn half-Heusler compounds. <i>CrystEngComm</i> , 2012 , 14, 4467	3.3	74
66	Enhanced phonon scattering by mass and strain field fluctuations in Nb substituted FeVSb half-Heusler thermoelectric materials. <i>Journal of Applied Physics</i> , 2012 , 112, 124915	2.5	69
65	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66
64	Surface states in bulk single crystal of topological semimetal CoSnS toward water oxidation. <i>Science Advances</i> , 2019 , 5, eaaw9867	14.3	63
63	Metallic n-Type Mg Sb Single Crystals Demonstrate the Absence of Ionized Impurity Scattering and Enhanced Thermoelectric Performance. <i>Advanced Materials</i> , 2020 , 32, e1908218	24	62
62	Enhancing Thermoelectric Performance of TiNiSn Half-Heusler Compounds via Modulation Doping. <i>Chemistry of Materials</i> , 2017 , 29, 7042-7048	9.6	50
61	Thermoelectric properties of FeVSb half-Heusler compounds by levitation melting and spark plasma sintering. <i>Intermetallics</i> , 2013 , 32, 39-43	3.5	49
60	Lattice thermal conductivity and spectral phonon scattering in FeVSb-based half-Heusler compounds. <i>Europhysics Letters</i> , 2013 , 104, 46003	1.6	44
59	Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS ₂ for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 1-6	21.8	42
58	Electron and phonon transport in Co-doped FeV _{0.6} Nb _{0.4} Sb half-Heusler thermoelectric materials. <i>Journal of Applied Physics</i> , 2013 , 114, 134905	2.5	42
57	Mg ₃ (Bi,Sb) ₂ single crystals towards high thermoelectric performance. <i>Energy and Environmental Science</i> , 2020 , 13, 1717-1724	35.4	41
56	Growth and transport properties of Mg ₃ X ₂ (X = Sb, Bi) single crystals. <i>Materials Today Physics</i> , 2018 , 7, 61-68	8	38
55	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2020 , 11, 3142	17.4	37
54	Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. <i>Energy and Environmental Science</i> , 2018 , 11, 2813-2820	35.4	34
53	Topological thermoelectrics. <i>APL Materials</i> , 2020 , 8, 040913	5.7	34

52	Departure from the Wiedemann-Franz law in WP2 driven by mismatch in T-square resistivity prefactors. <i>Npj Quantum Materials</i> , 2018 , 3,	5	33
51	Increased electrical conductivity in fine-grained (Zr,Hf)NiSn based thermoelectric materials with nanoscale precipitates. <i>Applied Physics Letters</i> , 2012 , 100, 254104	3.4	31
50	Revealing the Intrinsic Electronic Structure of 3D Half-Heusler Thermoelectric Materials by Angle-Resolved Photoemission Spectroscopy. <i>Advanced Science</i> , 2020 , 7, 1902409	13.6	31
49	In Situ Induction of Strain in Iron Phosphide (FeP ₂) Catalyst for Enhanced Hydroxide Adsorption and Water Oxidation. <i>Advanced Functional Materials</i> , 2020 , 30, 1907791	15.6	30
48	High-Performance MgSb Bi Thermoelectrics: Progress and Perspective. <i>Research</i> , 2020 , 2020, 1934848	7.8	30
47	Enhancing thermoelectric performance of FeNbSb half-Heusler compound by Hf-Ti dual-doping. <i>Energy Storage Materials</i> , 2018 , 10, 69-74	19.4	29
46	The Role of Electron-Phonon Interaction in Heavily Doped Fine-Grained Bulk Silicons as Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600171	6.4	28
45	Improved Thermoelectric Properties in Lu-doped Yb ₁₄ MnSb ₁₁ Zintl Compounds. <i>Applied Physics Express</i> , 2012 , 5, 031801	2.4	28
44	High performance half-Heusler thermoelectric materials with refined grains and nanoscale precipitates. <i>Journal of Materials Research</i> , 2012 , 27, 2457-2465	2.5	28
43	Dirac Nodal Arc Semimetal PtSn : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13107-13112	16.4	27
42	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14822-14828	13	24
41	Are Solid Solutions Better in FeNbSb-Based Thermoelectrics?. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600394	6.4	22
40	Artificial intelligence: A powerful paradigm for scientific research. <i>Innovation(China)</i> , 2021 , 2, 100179	17.8	21
39	In Situ Modification of a Delafossite-Type PdCoO Bulk Single Crystal for Reversible Hydrogen Sorption and Fast Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019 , 4, 2185-2191	20.1	19
38	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. <i>Nature Communications</i> , 2021 , 12, 5408	17.4	17
37	Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb. <i>Advanced Materials</i> , 2021 , 33, e2003168	24	15
36	Synthesis and thermoelectric properties of Rashba semiconductor BiTeBr with intensive texture. <i>Rare Metals</i> , 2018 , 37, 274-281	5.5	13
35	Half-Heusler thermoelectric materials. <i>Applied Physics Letters</i> , 2021 , 118, 140503	3.4	13

34	Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. <i>Research</i> , 2020 , 2020, 4643507	7.8	11
33	Tunable e Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5800-5805	16.4	11
32	Carrier Grain Boundary Scattering in Thermoelectric Materials. <i>Energy and Environmental Science</i> ,	35.4	10
31	Violation of the Relationship in the Lattice Thermal Conductivity of MgSb with Locally Asymmetric Vibrations. <i>Research</i> , 2020 , 2020, 4589786	7.8	9
30	Enhancing the room temperature thermoelectric performance of n-type Bismuth-telluride-based polycrystalline materials by low-angle grain boundaries. <i>Materials Today Physics</i> , 2022 , 22, 100573	8	8
29	Large Anomalous Hall and Nernst Effects in High Curie-Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , 2021 , 8, e2100782	13.6	8
28	Mode Gr̃eisen parameters of an efficient thermoelectric half-Heusler. <i>Journal of Applied Physics</i> , 2018 , 124, 195107	2.5	8
27	Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. <i>Physical Review B</i> , 2020 , 101,	3.3	7
26	Dirac Nodal Arc Semimetal PtSn4: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 13241-13246	3.6	7
25	Tunable eg Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. <i>Angewandte Chemie</i> , 2021 , 133, 5864-5869	3.6	7
24	Mo-Fe/NbFeSb Thermoelectric Junctions: Anti-Thermal Aging Interface and Low Contact Resistivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7317-7323	9.5	7
23	Reliable measurements of the Seebeck coefficient on a commercial system. <i>Journal of Materials Research</i> , 2015 , 30, 2670-2677	2.5	6
22	Hot deformation induced defects and performance enhancement in FeSb2 thermoelectric materials. <i>Journal of Applied Physics</i> , 2013 , 114, 184904	2.5	6
21	Synthesis and Transport Properties of In4(Se1-xTe x)3. <i>Journal of Electronic Materials</i> , 2011 , 40, 1202-1205	10.5	6
20	Large topological Hall effect in an easy-cone ferromagnet (Cr0.9B0.1)Te. <i>Applied Physics Letters</i> , 2020 , 117, 052409	3.4	6
19	Dopant-segregation to grain boundaries controls electrical conductivity of n-type NbCo(Pt)Sn half-Heusler alloy mediating thermoelectric performance. <i>Acta Materialia</i> , 2021 , 217, 117147	8.4	6
18	Fast synthesis and improved electrical stability in n-type Ag2Te thermoelectric materials. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 241-250	9.1	6
17	Origin of efficient thermoelectric performance in half-Heusler FeNb0.8Ti0.2Sb. <i>Journal of Applied Physics</i> , 2018 , 123, 235106	2.5	5

16	Large anomalous Hall effect in the kagome ferromagnet LiMn6Sn6. <i>Physical Review B</i> , 2021 , 103, 3-3	5
15	Visualizing the Mg atoms in Mg3Sb2 thermoelectrics using advanced iDPC-STEM technique. <i>Materials Today Physics</i> , 2021 , 21, 100524	8 5
14	Optimization of catalytic active sites in non-collinear antiferromagnetic Mn3Pt bulk single-crystal. <i>Materials Today Physics</i> , 2019 , 10, 100137	8 4
13	Thermoelectric transport effects beyond single parabolic band and acoustic phonon scattering. <i>Materials Advances</i> , 2022 , 3, 734-755	3-3 4
12	Pressure tuning of thermoelectric performance in FeNbSb. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1224-1230	5-7 3
11	Improved thermoelectric properties of TiNiSn through enhancing strain field fluctuation. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 425502	3 3
10	Spin Nernst effect in a p-band semimetal InBi. <i>New Journal of Physics</i> , 2020 , 22, 093003	2.9 3
9	THERMOELECTRIC PROPERTIES OF p-TYPE SKUTTERUDITES (Pr0.25Nd0.75)xFe3CoSb12 BY LEVITATION MELTING AND SPARK PLASMA SINTERING. <i>Functional Materials Letters</i> , 2013 , 06, 1340006	1.2 2
8	Influence of Electron-Phonon Interaction on the Lattice Thermal Conductivity in Single-Crystal Si. <i>Annalen Der Physik</i> , 2020 , 532, 1900435	2.6 1
7	Low Interfacial Resistivity in CoSi2/ZrCoSb Thermoelectric Junctions. <i>Materials Today Energy</i> , 2022 , 100960	1
6	Grain boundary in NbCo(Pt)Sn half-Heusler compounds: Segregation and solute drag on grain boundary migration. <i>Acta Materialia</i> , 2022 , 226, 117604	8.4 1
5	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020 , 32, e2004331	24 1
4	Realizing n-type gete through suppressing the formation of cation vacancies and bi-doping*. <i>Chinese Physics Letters</i> , 2021 , 38, 127201	1.8 1
3	Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb2 (Adv. Mater. 7/2021). <i>Advanced Materials</i> , 2021 , 33, 2170051	24 0
2	Magnetocatalysis: The Interplay between the Magnetic Field and Electrocatalysis. <i>CCS Chemistry</i> , 2021 , 2259-2267	0
1	Ag rearrangement induced metal-insulator phase transition in thermoelectric MgAgSb. <i>Materials Today Physics</i> , 2022 , 25, 100702	8