

# Advanced Thermoelectric Design: From Materials and S

Chemical Reviews

120, 7399-7515

DOI: [10.1021/acs.chemrev.0c00026](https://doi.org/10.1021/acs.chemrev.0c00026)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Enhancing the Thermoelectric Performance of Calcium Cobaltite Ceramics by Tuning Composition and Processing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47634-47646.	4.0	15
2	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , 2020, 4, 2030-2043.	11.7	138
3	A Facile Chemical Synthesis of PbTe Nanostructures at Room Temperature. <i>Nanomaterials</i> , 2020, 10, 1915.	1.9	0
4	Bi <sub>2</sub> Te <sub>3</sub> -based applied thermoelectric materials: research advances and new challenges. <i>National Science Review</i> , 2020, 7, 1856-1858.	4.6	170
5	Spatially resolved thermoelectric effects in <i>operando</i> semiconductor-metal nanowire heterostructures. <i>Nanoscale</i> , 2020, 12, 20590-20597.	2.8	13
6	In situ crystal-amorphous compositing inducing ultrahigh thermoelectric performance of p-type Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> hybrid thin films. <i>Nano Energy</i> , 2020, 78, 105379.	8.2	23
7	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36370-36379.	4.0	20
8	A new type of novel salt-inclusion chalcogenide with ultralow thermal conductivity. <i>Chemical Communications</i> , 2020, 56, 15149-15152.	2.2	9
9	Efficient biodegradable flexible hydrophobic thermoelectric material based on biomass-derived nanocellulose film and copper iodide thin nanostructured layer. <i>Solar Energy</i> , 2020, 212, 231-240.	2.9	11
10	Realization of High Thermoelectric Performance in Polycrystalline Tin Selenide through Schottky Vacancies and Endotaxial Nanostructuring. <i>Chemistry of Materials</i> , 2020, 32, 9761-9770.	3.2	22
11	Rational structural design and manipulation advance SnSe thermoelectrics. <i>Materials Horizons</i> , 2020, 7, 3065-3096.	6.4	73
12	Decoupling phonon and carrier scattering at carbon nanotube/Bi <sub>2</sub> Te <sub>3</sub> interfaces for improved thermoelectric performance. <i>Carbon</i> , 2020, 170, 191-198.	5.4	33
13	Optimized Strategies for Advancing n-Type PbTe Thermoelectrics: A Review. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49323-49334.	4.0	51
14	Effects of annealing process on thermoelectric performance for Pb-doped BiCuSeO. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 21623-21631.	1.1	2
15	Variable Rigidity Module with a Flexible Thermoelectric Device for Bidirectional Temperature Control. <i>Soft Robotics</i> , 2021, 8, 662-672.	4.6	8
16	Enhanced Charge Transport in Ca <sub>2</sub> MnO <sub>4</sub> -Layered Perovskites by Point Defect Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49768-49776.	4.0	11
17	Innovative design of bismuth-telluride-based thermoelectric micro-generators with high output power. <i>Energy and Environmental Science</i> , 2020, 13, 3579-3591.	15.6	32
18	Bi-Zn codoping in GeTe synergistically enhances band convergence and phonon scattering for high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21642-21648.	5.2	36

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19	Lone-Electron-Pair Micelles Strengthen Bond Anharmonicity in MnPb <sub>16</sub> Sb <sub>14</sub> S <sub>38</sub> Complex Sulfosalt Leading to Ultralow Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 44991-44997.	4.0	10
20	Achieving Enhanced Thermoelectric Performance in (SnTe) <sub>1-x</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>x</sub> and (SnTe) <sub>1-y</sub> (Sb <sub>2</sub> Se <sub>3</sub> ) <sub>y</sub> Synthesized via Solvothermal Reaction and Sintering. ACS Applied Materials & Interfaces, 2020, 12, 44805-44814.	4.0	26
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34	Pavonite homologues as potential n-type thermoelectric materials: crystal structure and performance. Materials Chemistry Frontiers, 2021, 5, 1283-1294.	3.2	8
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38	Metavalent Bonding in Solids: Characteristic Representatives, Their Properties, and Design Options. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000482.	1.2	28
39	Rational band engineering and structural manipulations inducing high thermoelectric performance in n-type CoSb <sub>3</sub> thin films. <i>Nano Energy</i> , 2021, 81, 105683.	8.2	82
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44	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie</i> , 2021, 133, 272-277.	1.6	7
45	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 268-273.	7.2	28
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76	Phase Equilibria and Thermoelectric Properties in the PbGa <sub>6</sub> Te <sub>10</sub> Phase. <i>Inorganic Chemistry</i> , 2021, 60, 2771-2782.	1.9	13
77	Multiscale architectures boosting thermoelectric performance of copper sulfide compound. <i>Rare Metals</i> , 2021, 40, 2017-2025.	3.6	33
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86	Improved Thermoelectric Properties of BiSbTe-AgBiSe <sub>2</sub> Alloys by Suppressing Bipolar Excitation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2944-2950.	2.5	17
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