

Resonant bonding leads to low lattice thermal conductivity

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Citation Report

#	ARTICLE	IF	CITATIONS
1	<i>Ab initio</i> lattice dynamics and electron-phonon coupling of Bi(111). <i>Physical Review B</i> , 2014, 90, .	1.1	16
2	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. <i>Physical Review B</i> , 2014, 90, .	1.1	64
3	Phonon transport in single-layer transition metal dichalcogenides: A first-principles study. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	309
4	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, 15031-15035.	3.3	225
5	Ultra-Low Thermal Conductivity in Organic-Inorganic Hybrid Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2488-2492.	2.1	416
6	Enhanced thermoelectric performance driven by high-temperature phase transition in the phase change material Ge_4SbTe_5 . <i>Journal of Materials Research</i> , 2015, 30, 2605-2610.	1.2	7
7	Phonon transmission across MgO . A first-principles-based atomistic Green's function study. <i>Physical Review B</i> , 2015, 91, .	1.2	16
8	Prediction of Low-Thermal-Conductivity Compounds with First-Principles Anharmonic Lattice-Dynamics Calculations and Bayesian Optimization. <i>Physical Review Letters</i> , 2015, 115, 205901.	2.9	343
9	Transport properties of cubic crystalline $\text{Ge}_2\text{Sb}_2\text{Te}_5$: A potential low-temperature thermoelectric material. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	17
10	Unusual isotope effect on thermal transport of single layer molybdenum disulphide. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	33
11	From Bonding Asymmetry to Anharmonic Rattling in $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ Tetrahedrites: When Lone Pair Electrons Are Not So Lonely. <i>Advanced Functional Materials</i> , 2015, 25, 3648-3657.	7.8	177
12	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth Telluride-Based Solid Solutions. <i>Advanced Energy Materials</i> , 2015, 5, 1500411.	10.2	379
13	Microscopic Complexity in Phase Change Materials and its Role for Applications. <i>Advanced Functional Materials</i> , 2015, 25, 6343-6359.	7.8	78
14	Thermal conductivity of skutterudite CoSb_3 from first principles: Substitution and nanoengineering effects. <i>Scientific Reports</i> , 2015, 5, 7806.	1.6	70
15	From crystal to glass-like thermal conductivity in crystalline minerals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19751-19758.	1.3	96
16	Impact of vacancy ordering on thermal transport in crystalline phase-change materials. <i>Reports on Progress in Physics</i> , 2015, 78, 013001.	8.1	84
17	Hydrodynamic phonon transport in suspended graphene. <i>Nature Communications</i> , 2015, 6, 6290.	5.8	254
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26	Effect of grain size on thermal transport in post-annealed antimony telluride thin films. <i>Nanoscale Research Letters</i> , 2015, 10, 20.	3.1	29
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28	Revisit of Pressure-Induced Phase Transition in PbSe: Crystal Structure, and Thermoelastic and Electrical Properties. <i>Inorganic Chemistry</i> , 2015, 54, 4981-4989.	1.9	25
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74	Temperature and isotope effects on the thermoelectric properties in SnTe. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 175701.	0.7	4
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