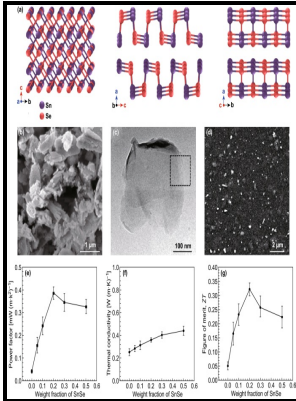


Thermoelectric properties of Si-based two dimensional structures

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Tags: #Abstract: #(Invited) #The #Thermoelectric #Properties #of #Ge/SiGe #Based #Superlattices: #from #Materials #to #Energy #Harvesting #Modules #(2014 #ECS #and #SMEQ #Joint #International #Meeting #(October #5

Thermoelectric Properties of $\text{Ce}_{0.09}\text{Fe}_{0.67}\text{Co}_{3.33}\text{Sb}_{12}/\text{FeSb}_2\text{Te}$ Multi

The structural, mechanical, electronic, thermoelectric efficiency, and optical properties of XSb monolayers are studied.

Recent Progress of Two

In all cases the Ref. We demonstrate that the lattice thermal conductivity can be effectively modulated by applying tensile strain.

Abstract: (Invited) The Thermoelectric Properties of Ge/SiGe Based Superlattices: from Materials to Energy Harvesting Modules (2014 ECS and SMEQ Joint International Meeting (October 5

Murgatroyd, Theory of space-charge-limited current enhanced by Frenkel effect.

Bulk and Monolayer ZrS_3 as Promising Anisotropic Thermoelectric Materials: A Comparative Study

In this article, we review recent advances in the study of the thermoelectric properties of 2D TMDs.

Enhanced thermoelectric properties of two

The Seebeck coefficient of the bulk pellet pressed by the obtained In_2Te_3 samples exhibits a remarkable enhancement about 43% over that of the reported corresponding thin film at room temperature.

Thermoelectric and phonon transport properties of two

The lattice thermal conductivity κ_l relevant to phonon transport property plays an important role to determine the thermoelectric performance.

Solvothermal synthesis and thermoelectric properties of indium telluride nanostring

A large Seebeck coefficient, large electrical conductivity, and low thermal conductivity are needed for high thermoelectric performance, but a low amount of charge carrier is required to improve the Seebeck coefficient, which reduces the electrical conductivity.

Phys. Rev. Materials 4, 124007 (2020)

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