

Chemistry, Physics, and Materials Science of Thermoelectric Materials: Beyond Bismuth Telluride (Fundamental Materials Research)



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This series of books, which is published at the rate of about one per year, addresses fundamental problems in materials science. The contents cover abroad range of topics from small clusters of atomstoen gineering materials and involve chemistry, physics, materials science, and engineering,

withlengthscalesrangingfromAngstromsuptomillimeters. Theemphasis is on basic scienceratherthan on applications. Each book focuses on a single areaofcurrent interest and brings together leading experts to give an up-to-date discussion of their work and the work of others. Each articlecontains enough references that the interested reader can access the relevant literature. Thanks are given to the Center for Fundamental Materials Research at Michigan State University for supporting this series. M.F.Thorpe, Series Editor E-mail: thorpe@pa.msu.edu EastLansing, Michigan, November2002 v PREFACE

ThisvolumerecordsinvitedlecturesgivenattheNewThermoelectric(TE)Materials Workshopheld inTraverseCity, MichiganfromAugust17-21,2002.Thethemeofthe workshop was Chemistry,

PhysicsandMaterials ScienceofThermoelectric Materials: Beyond Bismuth Telluride. The objective of this symposium was threefold. First, to examine and assess the ability of solid state chemistry to produce new generation materials for TE applications. Second, to rationalize and predict the charge and heat transportpropertiesofpotentialcandidatesandhypotheticalsystemsthroughsolidstate

theoryandexperiment. Third, toidentifyandprioritizeresearchneededtoreachvarious

levelsofrequirementsintermsofZTandtemperature. These objectives were addressed by a series of invited talks and discussions by leading experts from academia, governmentlaboratories, and industry. There were two invited and eightposter presentations in the workshop. Out of these,

sixteeninvitedpresentationsarerepresentedinthisvolume. Theycoverawide range of subjects, starting from synthesis (based on different strategies) and characterizationofnovel materials to acareful studyoftheir transport properties and electronic structure. Topics addressing the issue of making new materials are: synthetic search for new materials (di Salvo et al.) and synthetic strategies based on phase homologies (Kanatzidis). The different classes of materials covered are: bismuth nanowires (Dresselhausetal.), unconventional high-temperature thermoelectrics, boron carbides (Aselage et al.), layered cobalt oxides (Fujii et al.), early transition metal antimonides (Kleinkeetal.), skutterudites (Uher), and clathrate thermoelectrics (Nolas).

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