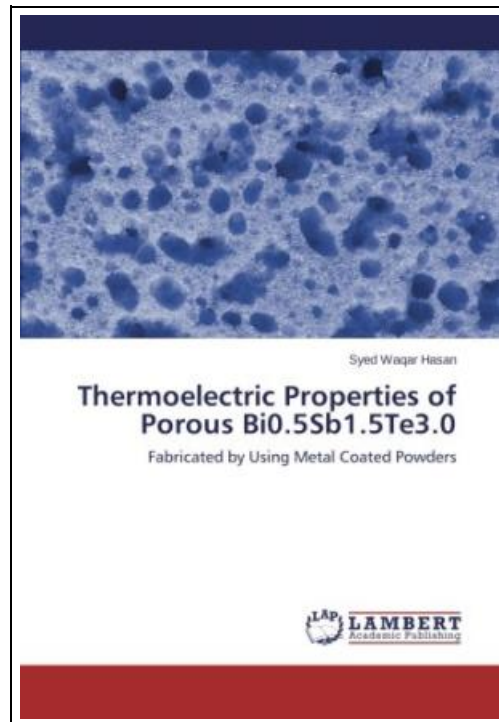


Thermoelectric Properties of Porous Bi_{0.5}Sb_{1.5}Te_{3.0}



Filesize: 5.78 MB

Reviews

I actually began looking over this ebook. I could possibly comprehend everything using this published e publication. You wont feel monotony at at any time of your time (that's what catalogues are for regarding if you request me).
(Arnold Nienow)

THERMOELECTRIC PROPERTIES OF POROUS Bi0.5Sb1.5Te3.0



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Fabricated by Using Metal Coated Powders | This research presents a novel technique to enhance thermoelectric properties of p-type Bi_{0.5}Sb_{1.5}Te_{3.0} (BST) polycrystalline materials by producing nano-to-micro sized porous structures in bulk samples. We initially coated BST powder with Tellurium nanowires. Thus, we designed a fast and inexpensive technique to synthesize Tellurium Nanowires with diameters ranging from 10 150 nm. There is a huge possibility to generalize this technique for chalcogenide nanowires growth. Porosity was dispersed in the SPS-ed pellets by vacuum evaporation of the coated Tellurium. The prevailing challenge in Pore generation is to control pore dimensions. In this research micro-to-nano sized pores are reported. Thermoelectric properties were significantly enhanced by porosity. Pore-BST interfaces, proved to be efficient phonon scattering centers, reduce lattice thermal conductivity down to 0.1 0.2 W/m.K. The overall ZT was 18% higher than the reference samples. X-Ray Diffraction, Field Emission Scanning Electron Microscopy (FE-SEM) and Energy Dispersive X-Ray Spectroscopy were used to study the structural and morphological features of our samples. | Format: Paperback | Language/Sprache: english | 88 pp.

-  [Read Thermoelectric Properties of Porous Bi_{0.5}Sb_{1.5}Te_{3.0} Online](#)
-  [Download PDF Thermoelectric Properties of Porous Bi_{0.5}Sb_{1.5}Te_{3.0}](#)

Related PDFs



Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and...

[Save](#) [ePub](#)

»



Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

[Save](#) [ePub](#)

»



The Right Kind of Pride: A Chronicle of Character, Caregiving and Community

Right Kind of Pride, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.After 20 years of marriage author Christopher Cudworth and his...

[Save](#) [ePub](#)

»



Finally Free

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 216 x 140 mm. Language: English . Brand New Book ***** Print on Demand *****.Its been four years since Malakais death, and Kinara couldnt...

[Save](#) [ePub](#)

»



Violet Rose and the Surprise Party

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a...

[Save](#) [ePub](#)

»