



# Innovative Thermoelectric Materials: Polymer, Nanostructure and Composite Thermoelectrics

By Howard E Katz, Theodore O Poehler

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Power generation from environmentally friendly sources has led to surging interest in thermoelectrics. There has been a move toward alternative thermoelectric materials with enhanced performance through materials and structures that utilize common and safer elements and alternative mechanistic approaches while increasing processing latitude and decreasing cost. This wide-ranging volume examines this progress and future prospects with the new technologies, ease of processing and cost as major considerations, and will benefit active researchers, students and others interested in cutting-edge work in thermoelectric materials.

*Innovative Thermoelectric Materials* incorporates the contributions of a group of recognized experts in thermoelectric materials, many of whom were the first to introduce various materials systems into thermoelectric systems. The perspectives brought to this evolving subject will provide important insights on which those developing the field can build, and will inspire new research directions for the future.

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### **Editorial Review**

From the Inside Flap

The contemporary enthusiasm for environmentally friendly energy sources such as solar, geothermal, and wind energy has caused a surge of interest into how thermoelectrics might contribute to greater efficiency in energy generation and conversion. Although historically the primary materials used in thermoelectric devices have been metals and inorganic semiconductors, there has recently been a movement to make use of the thermoelectric effects of organic conducting polymers, thin films, nanostructured materials, oxides, and pseudo-liquid materials. These materials and structures show great promise in improving the cost, simplicity, and efficiency of thermoelectric systems and, ultimately, offer the potential for enhanced properties through application of alternative physical mechanisms.

Innovative Thermoelectric Materials incorporates the contributions of a group of recognized experts at the forefront of these developments in thermoelectric materials, models of energy transport in candidate thermoelectric materials, and developers of high-efficiency thermoelectric energy conversion. Recent progress and future prospects are analyzed, with a particular focus on thermoelectric energy conversion in organic conducting polymers, polymer nanostructure composites, and hierarchically assembled structures.

### **Users Review**

**From reader reviews:**

**Margaret Barone:**

The book untitled Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics contain a lot of information on this. The writer explains your girlfriend idea with easy way. The language is very clear to see all the people, so do definitely not worry, you can easy to read it. The book was authored by famous author. The author gives you in the new era of literary works. It is possible to read this book because you can continue reading your smart phone, or device, so you can read the book in anywhere and anytime. If you want to buy the e-book, you can wide open their official web-site as well as order it. Have a nice read.

**Teresa Jones:**

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**Thomas Kelly:**

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**Carl Moss:**

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