



Nanostructured Materials for Electrochemical Energy Production and Storage (Hardback)

By -

Springer-Verlag New York Inc., United States, 2009. Hardback. Condition: New. 2009 ed.. Language: English . Brand New Book. The major problem facing new energy conversion and storage technologies remains device efficiency. Projects based on nanostructured materials can yield improved performance in devices involving electrochemical reactions and heterogeneous catalysis, such as fuel and solar cells, batteries, etc. Nanoscale structures dramatically alter the surface reaction rates and electrical transport throughout the material, causing a dramatic improvement in energy storage, conversion, and generation. Furthermore, the design of nanoscale materials to be applied in alternative energy devices is a predictable way to develop a wide range of new technologies for a more sustainable future. Therefore, the goal of this book is to present basic fundamentals and the most relevant properties of nanostructured materials in order to improve alternative energy devices. This book begins with a chapter by Gratzel summarizing the use of mesoscopic thin films and hybrid materials in the development of new kinds of regenerative photoelectrochemical devices. Applications include high-efficiency solar cells. In chapter two, Ribeiro and Leite describe assembly and properties of nanoparticles. The chapter presents a review on the properties and main features of nanoscale materials, emphasizing the...



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