



[Renewable and Clean Energy Systems Based on Advanced Nanomaterials](#)

نویسنده: دکتر سحر زینت‌لو - دکتر اردشیر محمدزاده

Description

Renewable and Clean Energy Systems Based on Advanced Nanomaterials: Basis, Preparation and Applications describes the fundamental aspects of a diverse range of nanomaterials used in the fields of renewable and clean energy systems. Various methods of preparing several different nanomaterials for green energy systems, such as advanced nanomaterials for solar cells, mixed metal oxide-based nanomaterials for hydrogen storage, and active nanomaterials for Li ion batteries are presented along with their advantages and disadvantages as well as their applications. Chapters also discuss novel methods of power analysis, frequency regulation methods, practical applications of solar panels, economic efficiency of solar energy, solar physics, and much more, providing readers with a valuable resource on the basic science, preparation methods, and practical applications of advanced nanomaterials for green energy systems.

Key Features

- Features recent advances on nanomaterials preparation methods and their applications in renewable and clean energy systems
- Discusses sustainable strategies for producing large-scale nanomaterials for renewable and clean energy systems, focusing on preparation techniques that are cost-effective and eco-friendly
- Reviews the efficiency of advanced nanomaterials used in solar energy storage and conversion as well as energy storage

Readership

Materials scientists, physicists, chemists and engineers, R&D Managers working in ceramic materials, energy science and technology

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<https://www.sciencedirect.com/book/9780443139505/renewable-and-clean-energy-systems-based-on-advanced-nanomaterials>