



# **Organic Nanostructured Thin Film Devices and Coatings for Clean Energy (Handbook of Nanostructured Thin Films and Coatings)**

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# Organic Nanostructured Thin Film Devices and Coatings for Clean Energy (Handbook of Nanostructured Thin Films and Coatings)

## Organic Nanostructured Thin Film Devices and Coatings for Clean Energy (Handbook of Nanostructured Thin Films and Coatings)

Authored by leading experts from around the world, the three-volume *Handbook of Nanostructured Thin Films and Coatings* gives scientific researchers and product engineers a resource as dynamic and flexible as the field itself. The first two volumes cover the latest research and application of the mechanical and functional properties of thin films and coatings, while the third volume explores the cutting-edge organic nanostructured devices used to produce clean energy.

This third volume, **Organic Nanostructured Thin Film Devices and Coatings for Clean Energy**, addresses various aspects of the processing and properties of organic thin films, devices, and coatings for clean energy applications. Topics covered include:

- Thin-film solar cells based on the use of polycrystalline thin-film materials
- Anodized titania nanotube array and its application in dye-sensitized solar cells
- Progress and challenges associated with photovoltaic applications of silicon nanocrystalline materials
- Semiconductive nanocomposite films for clean environment
- Thin-coating technologies and applications in high-temperature solid oxide fuel cells
- Nanoscale organic molecular thin films for information memory applications

A complete resource, this handbook provides the detailed explanations that newcomers need, as well as the latest cutting-edge research and data for experts. Covering a wide range of mechanical and functional technologies, including those used in clean energy, these books also feature figures, tables, and images that will aid research and help professionals acquire and maintain a solid grasp of this burgeoning field.

The **Handbook of Nanostructured Thin Films and Coatings** is composed of this volume and two others:

*Nanostructured Thin Films and Coatings, Functional Properties*

*Nanostructured Thin Films and Coatings, Mechanical Properties*

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