

Nanochemistry

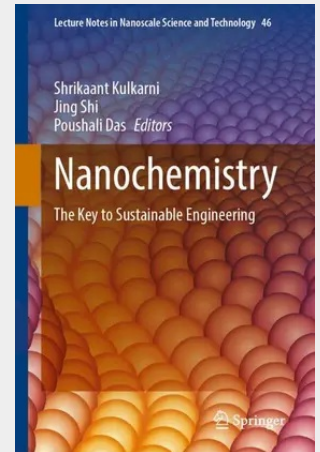
The Key to Sustainable Engineering

This book explores how nanotechnology is transforming the field of engineering with a focus on sustainability. It provides a thorough introduction to nanochemistry, covering the synthesis, characterization, and unique properties of nanomaterials. It explores their practical applications in renewable energy, water purification, pollution control, and sustainable construction.

Through detailed case studies, this book illustrates the impact of nanochemistry on real-world engineering challenges and highlights how leading organizations are leveraging these technologies to achieve Sustainable Development Goals (SDGs). It also addresses health, safety, and environmental concerns related to nanomaterials, offering guidelines for their safe use and disposal.

Looking ahead, this book identifies emerging trends and research directions, encouraging further innovation in the field. Designed for researchers, engineers, students, and policymakers and catered to readers at all levels of expertise, this resource provides essential insights and practical knowledge for advancing sustainability through nanotechnology.

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