



One-Dimensional Nanostructures: Principles and Applications

Tianyou Zhai, Jiannian Yao

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Reviews the latest research breakthroughs and applications

Since the discovery of carbon nanotubes in 1991, one-dimensional nanostructures have been at the forefront of nanotechnology research, promising to provide the building blocks for a new generation of nanoscale electronic and optoelectronic devices. With contributions from 68 leading international experts, this book reviews both the underlying principles as well as the latest discoveries and applications in the field, presenting the state of the technology. Readers will find expert coverage of all major classes of one-dimensional nanostructures, including carbon nanotubes, semiconductor nanowires, organic molecule nanostructures, polymer nanofibers, peptide nanostructures, and supramolecular nanostructures. Moreover, the book offers unique insights into the future of one-dimensional nanostructures, with expert forecasts of new research breakthroughs and applications.

One-Dimensional Nanostructures collects and analyzes a wealth of key research findings and applications, with detailed coverage of:

- Synthesis
- Properties
- Energy applications
- Photonics and optoelectronics applications
- Sensing, plasmonics, electronics, and biosciences applications

Practical case studies demonstrate how the latest applications work. Tables throughout the book summarize key information, and diagrams enable readers to grasp complex concepts and designs. References at the end of each chapter serve as a gateway to the literature in the field.

With its clear explanations of the underlying principles of one-dimensional nanostructures, this book is ideal for students, researchers, and academics in chemistry, physics, materials science, and engineering. Moreover, *One-Dimensional Nanostructures* will help readers advance their own investigations in order to develop the next generation of applications.

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