



# **Nanopatterning and Nanoscale Devices for Biological Applications (Devices, Circuits, and Systems)**

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## Nanopatterning and Nanoscale Devices for Biological Applications (Devices, Circuits, and Systems)

Nanoscale techniques and devices have had an explosive influence on research in life sciences and bioengineering. Reflecting this influence, **Nanopatterning and Nanoscale Devices for Biological Applications** provides valuable insight into the latest developments in nanoscale technologies for the study of biological systems. Written and edited by experts in the field, this first-of-its-kind collection of topics:

- Covers device fabrication methods targeting the substrate on the nanoscale through surface modification
- Explores the generation of nanostructured biointerfaces and bioelectronics elements
- Examines microfluidically generated droplets as reactors enabling nanoscale sample preparation and analysis
- Gives an overview of key biosensors and integrated devices with nanoscale functionalities
- Discusses the biological applications of nanoscale devices, including a review of nanotechnology in tissue engineering

Readers gain a deep understanding of the cutting-edge applications of nanotechnologies in biological engineering, and learn how to apply the relevant scientific concepts to their own research. **Nanopatterning and Nanoscale Devices for Biological Applications** is the definitive reference for researchers in engineering, biology, and biomedicine, and for anyone exploring the newest trends in this innovative field.

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