



Electrospinning for Advanced Energy and Environmental Applications

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Electrospinning for Advanced Energy and Environmental Applications delivers a state-of-the-art overview of the use of electrospun fibers in energy conversion and storage, as well as in environmental sensing and remediation. Featuring contributions from leading experts in electrospinning and its specific applications, this book:

- Introduces the electrospinning technique and its origins, outlining achievable one-dimensional (1D) nanoscaled materials and their various applications
- Discusses the use of electrospun materials in energy devices, including low- and high-temperature fuel cells, hydrogen storage, dye-sensitized solar cells, lithium-ion batteries, and supercapacitors
- Explores environmental applications of electrospun fibers, such as the use of electrospinning-issued materials in membranes for water and air purification, as well as in sensors and biosensors for pollution control

Beneficial to both academic and industrial audiences, **Electrospinning for Advanced Energy and Environmental Applications** presents basic electrospinning approaches and their advantages in dedicated applications, while providing a review of the latest advances and technical challenges associated with electrospun materials. The book serves as a reference for field newcomers and experts alike, inspiring new ideas and developments for future energy and environmental applications.

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