**DESCRIPTION**

This timely volume on nanomaterials and their biomedical and environmental applications includes the fundamentals of nanoparticles, and state-of-the-art properties, characterization, and the synthesis methods as well as the applications. The main thrust of the book is to present review chapters that explore all these aspects of nanomaterials for scientists, engineers and students who are fairly new to the field and want to have a deeper understanding of all the recent R & D advances. The 12 chapters are written by subject matter experts and plot the influence of nanomaterials on the analytical systems (macro to micro & lab-on-a-chip) for biomedical and environmental applications.

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