

Emerging Nanostructured Materials for Energy and Environmental Science

Editors: Rajendran, S., Naushad, M., Raju, K., Boukherroub, R. (Eds.)

<https://link.springer.com/book/10.1007%2F978-3-030-04474-9#editorsandaffiliations>

Abstract

This book provides the fundamental aspects of the diverse ranges of nanostructured materials (0D, 1D, 2D and 3D) for energy and environmental applications in a comprehensive manner written by specialists who are at the forefront of research in the field of energy and environmental science. Experimental studies of nanomaterials for aforementioned applications are discussed along with their design, fabrication and their applications, with a specific focus on catalysis, energy storage and conversion systems. This work also emphasizes the challenges of past developments and directions for further research. It also looks at details pertaining to the current ground – breaking of nanotechnology and future perspectives with a multidisciplinary approach to energy and environmental science and informs readers about an efficient utilization of nanomaterials to deliver solutions for the public.