Nanostructured Materials in Electrochemistry

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DESCRIPTION

Providing the unique and vital link between the worlds of electrochemistry and nanomaterials, this reference and handbook covers advances in electrochemistry through the nanoscale control of electrode structures, as well as advances in nanotechnology through electrochemical synthesis strategies. It demonstrates how electrochemical methods are of great scientific and commercial interest due to their low cost and high efficiency, and includes the synthesis of nanowires, nanoparticles, nanoporous and layered nanomaterials of various compositions, as well as their applications -- ranging from superior electrode materials to energy storage, biosensors, and electroanalytical devices.

ABOUT THE AUTHOR

Ali Eftekhari is a professor of chemistry and the director of the Avicenna Institute of Technology. He is the founder of various MSc programs in the field of nanotechnology, and, in addition to his scientific activities, is involved in establishing effective strategies of research, such as the electrochemistry division of the Materials and Energy Research Center (MERC) in Tehran, Iran. Professor Eftekhari is a Fellow of the Institute of Nanotechnology, has authored some 100 scientific publications while serving more than 40 leading journals as an editor or expert referee, has held over 200 presentations at international conferences, and has been a member of various advisory boards and scientific committees.
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