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Nanocarbons for Advanced Energy Storage

By Feng, Xinliang

Condition: New. Publisher/Verlag: Wiley-VCH | This first volume in the series on nanocarbons for advanced applications presents the latest achievements in the design, synthesis, characterization, and applications of these materials for electrochemical energy storage. The highly renowned series and volume editor, Xinliang Feng, has put together an internationally acclaimed expert team who covers nanocarbons such as carbon nanotubes, fullerenes, graphenes, and porous carbons. The first two parts focus on nanocarbon-based anode and cathode materials for lithium ion batteries, while the third part deals with carbon material-based supercapacitors with various applications in power electronics, automotive engineering and as energy storage elements in portable electric devices. This book will be indispensable for materials scientists, electrochemists, physical chemists, solid state physicists, and those working in the electrotechnical industry. | Preface Nanostructured Activated Carbons for Supercapacitors Nanocarbon Hybrids with Silicon, Sulfur, or Paper/Textile for High-Energy Lithium Ion Batteries Precursor-Controlled Synthesis of Nanocarbons for Lithium Ion Batteries Nanocarbon/Metal Oxide Hybrids for Lithium Ion Batteries Supercapattery with Hybrids of Redox Active Polymers and Nanostructured Carbons Carbon-Based Supercapacitors Produced by Activation of Graphene Supercapacitors Based on Graphene and Related Materials Self-Assembly of Graphene for Electrochemical Capacitors Carbon Nanotube-Based Thin Films for Flexible Supercapacitors Graphene and Porous Nanocarbon Materials for Supercapacitor Applications Aligned Carbon Nanotubes and their Hybrids for Electrochemical...



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