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Autore	Roy Poulomo
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Nota di contenuto	Electrochemistry of rechargeable batteries beyond lithium based systems / Brij Kishore, Shyama Prasad Mohanty and Munichandraiah NookalaLi-ion battery materials : understanding from computational view-point / Jishnu Bhattacharya Nanostructured anode materials for batteries (lithium Ion, Ni-MH, lead-acid, and thermal batteries) / Surendra K. Martha and Liju Elias Nanostructured cathode materials for Li-/Na Ion Aqueous and Non-Aqueous Batteries / Farheen N. Sayed, Ganguli Babu and P.M. Ajayan Polymer-assisted chemical solution method to metal oxide nanoparticles for lithium-ion batteries / Di Huang and Hongmei LuoLi-air : current scenario and its future / Saravanan Karuppiah, Remith Pongilat and Kalaiselvi Nallathamby Sodium-Ion battery anode stabilization / Prasit Kumar Dutta, Arnab Ghosh and Sagar Mitra Polymer-based separators for lithium-ion batteries / J.C. Barbosa, C.M. Costa and S. Lanceros-Mendez Nanostructured carbon-based electrodes for supercapacitor applications / Sanjit Saha and Tapas Kuila Nanostructured metal oxide,

hydroxide, and chalcogenide for supercapacitor applications / Poulomi Roy, Shipra Raj and Suneel Kumar Srivastava Polymer-based flexible electrodes for supercapacitor applications / Syam Kandula, Nam Hoon Kim and Joong Hee Lee

Sommario/riassunto

"Energy storage devices are considered to be an important field of interest for researchers worldwide. Batteries and supercapacitors are therefore extensively studied and progressively evolving. The book not only emphasizes the fundamental theories, electrochemical mechanism and its computational view point, but also discusses recent developments in electrode designing based on nanomaterials, separators, fabrication of advanced devices and their performances"--
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