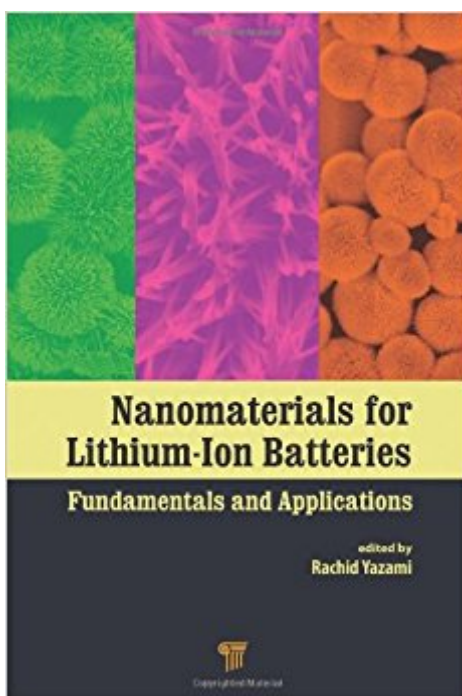




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Nanomaterials For Lithium-Ion Batteries: Fundamentals And Applications



Synopsis

This book covers the most recent advances in the science and technology of nanostructured materials for lithium-ion application. With contributions from renowned scientists and technologists, the chapters discuss state-of-the-art research on nanostructured anode and cathode materials, some already used in commercial batteries and others still in development. They include nanostructured anode materials based on Si, Ge, Sn, and other metals and metal oxides together with cathode materials of olivine, the hexagonal and spinel crystal structures.

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"The book has good technical depth, yet is still very readable. It contains many photos, illustrations, tables, and graphs of data that provide the reader with the insight needed to understand the phenomena being described and the processes occurring in lithium battery chemistry. Researchers as well as students studying lithium-ion batteries will find this book well worth reading. It provides insight into many different avenues for potentially improving lithium-ion battery performance. The reader will learn about these new ideas and gain a better understanding of what currently limits battery performance."--IEEE Electrical Insulation Magazine, September/October - Vol. 30, No.5

Professor Rachid Yazami is a Research Director at the Centre National de la Recherche Scientifique (CNRS). His current research covers thermodynamics studies on lithium ion batteries, lithium air batteries with a liquid anode, and fluoride ion batteries.

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