

This title acquaints readers with the numerous and often consumer-oriented applications of this widespread battery type. Lithium-Ion Batteries also explores the concepts of nanostructured...

Among the developed batteries, lithium-ion batteries (LIBs) have received the most attention, and have become increasingly important in recent years. Compared with other batteries, LIBs offer high energy density, high discharge power, high coulombic efficiencies, and long service life [16, 17, 18].

Lithium-ion batteries (LIBs), while first commercially developed for portable electronics are now ubiquitous in daily life, in increasingly diverse applications including electric cars, power...

Lithium-Ion Batteries features an in-depth description of different lithium-ion applications, including important features such as safety and reliability. This title acquaints readers with the numerous and often consumer-oriented applications of this widespread battery type.

Nonetheless, lithium-ion batteries are nowadays the technology of choice for essentially every application - despite the extensive research efforts invested on and potential advantages of other technologies, such as sodium-ion batteries [[7], [8], [9]] or redox-flow batteries [10, 11], for particular applications.

Lithium-Ion Batteries: Advances and Applications. Contents. Contributors xv. Preface xix. Development of the Lithium-Ion Battery and Recent Technological Trends. Akira Yoshino. Introduction. Development of the Practical LIB. Development of Cathode Materials. Development of Anode Materials. Development of Electrolyte Solutions. Separator Technology.

Share. Abstract. Currently, the main drivers for developing Li-ion batteries for efficient energy applications include energy density, cost, calendar life, and safety.

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