

Alternative Electrolyte Media for Lithium Metal Battery



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言語/英語
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to attend.

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東京農工大学 小金井キャンパス 工学部講義棟1階L0014
Room L0014, Lecture Hall Building for the Faculty of Engineering
Koganei Campus TUAT

Abstract

Advanced glyme-based, polymer and ionic liquid electrolytes are adequate for application in high energy lithium metal battery. The new electrolytes show excellent characteristics in terms of ion conductivity, wide temperature applicability range and remarkably extended thermal stability. The cells employing these electrolytes reveal suitable characteristics, such as outstanding electrochemical cycle life, and satisfactory rate capability. These promising performances, together with the high safety content provided by non-flammable electrolyte and possible employment of a very stable olivine-structure cathode, make the cell chemistry well suited for a wide range of applications, including the energy storage for powering modern electronic devices and electric vehicles.

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