

Nouvelle stratégie pour le développement de séparateurs poreux fonctionnels pour batteries au lithium-ion

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There is increasing demand for safe and energy dense batteries for use in portable device. Lithium-ion battery (LIB) is a mature technology but can still be improve. The separator of lithium-ion battery is a critical component to ensure high energy densities and maximize power delivery during charge-discharge process of the battery. Recently, the optimization of the ionic transport by using single ion separator was carefully studied. Herein, a single ion random copolymer was synthesized and used for commercial separator modification to improve LIBs performance. Wetting ability and conductivity of modified separators have been studied and compared to pristine separator