

OverviewMaterialsHistoryUsesChallengesAdvantagesThin-film solid-state batteriesInnovation and IP protectionCandidate materials for solid-state electrolytes (SSEs) include ceramics such as lithium orthosilicate, glass, sulfides and RbAg_4I_5 . Mainstream oxide solid electrolytes include $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ (LAGP), $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$ (LATP), perovskite-type $\text{Li}_{3-x}\text{La}_{2/3-x}\text{TiO}_3$ (LLTO), and garnet-type $\text{Li}_{6.4}\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ (LLZO) with metallic Li. The thermal stability versus Li of the four SSEs was in order of LAGP < LATP < LLTO < LLZO. Chloride superionic c...

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