

OverviewMaterialsHistoryUsesChallengesAdvantagesThin-film solid-state batteriesInnovation and IP protectionCandidate materials for solid-state electrolytes (SSEs) include ceramics such as lithium orthosilicate, glass, sulfides and RbAg₄I₅. Mainstream oxide solid electrolytes include Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ (LAGP), Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ (LATP), perovskite-type Li_{3x}La_{2/3-x}TiO₃ (LLTO), and garnet-type Li_{6.4}La₃Zr_{1.4}Ta_{0.6}O₁₂ (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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