Solid electrolyte for lithium ion battery

Herein, we summarize the emerging high-voltage cathode materials and their matched solid-state electrolytes; we also analyze the interface problem from a new perspective (corrosion).

We have described various battery chemistries operated with solid-state electrolytes, including all-solid-state lithium-ion batteries, lithium-air, lithium-sulfur and lithium-bromine ...

Solid electrolyte applications in solid-state lithium-ion batteries are the main topic of this review, which also covers the types, benefits, and drawbacks of these materials.

In this review, we summarize the comprehensive performance of the common solid electrolytes and their fabrication strategies, including inorganic-based solid electrolytes, solid polymer electrolytes, and composite solid ...

NEI produces solid electrolyte materials of sulfide, oxide, halide, polymer, & phosphate-based compositions for Li-ion batteries, as well as NASICON for Na-ion batteries.

In this review, we discuss five types of solid electrolytes, sulfides, halides, nitrides, antiperovskite-type, and complex hydrides, and the challenges and superiorities for these electrolytes are also addressed.

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This review explores a variety of solid electrolytes, including oxide, sulfide, perovskite, anti-perovskite, NASICON, and LISICON-based materials, each with unique ...

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