

PREPARATION METHOD FOR SOLID ELECTROLYTE CONTAINING ANDERSON-TYPE POLYOXOMETALATE AND USE OF SOLID ELECTROLYTE

ABSTRACT

The present invention discloses a preparation method of a solid-state electrolyte containing Anderson-type polyoxometalate as an additive and use thereof in a solid-state battery. The preparation method specifically includes: mixing a certain mass percentage of polyoxometalate with a solid-state electrolyte, and performing ball milling on the resulting mixture, followed by tableting and calcining, to finally prepare a solid-state electrolyte modified with polyoxometalate as a filler. In the present invention, the polyoxometalate with excellent electrochemical performance is mainly taken as the filler to fill voids in the solid-state electrolyte and improve an electrolyte-electrode interface, thereby enhancing performance thereof in an all-solid-state battery.

FIG. 3