

## ABSTRACT

A coating slurry, a coated separator, a preparation method, and a battery. The main components of the coating slurry comprise a solvent and an adhesive polymer resin, wherein the weight proportion of the adhesive polymer resin in the slurry is 5-20 wt%; and the adhesive polymer resin comprises a combination of a PVDF-based adhesive resin polymer and a polyimide adhesive resin or comprises a combination of at least two polyimide adhesive resins, the mass ratio of the polyimide adhesive resin to the PVDF-based adhesive resin polymer or the mass ratio of the first polyimide adhesive resin to the second polyimide adhesive resin being 50-85:15-50. The separator has good heat resistance, high breakdown resistance and adhesive performance, such that the high safety performance and the cycling stability performance of a subsequently obtained lithium-ion battery are greatly improved.

FIG. 3