

ABSTRACT

HIGH-RATE SODIUM BATTERY AND PREPARATION METHOD THEREOF

The present application relates to the technical field of sodium-ion battery manufacturing, particularly to a high-rate sodium battery and a preparation method thereof. The high-rate sodium battery includes a positive electrode sheet, a negative electrode sheet, a separator, and an electrolyte; a composition of the positive electrode sheet, by mass percentage, includes: 75-80% of a NVPF@C-N composite material, 10% of a positive electrode binder prepared by mixing sodium carboxymethyl cellulose and sodium polyacrylate in a mass part ratio of 1:1, and 10-15% of a conductive agent Super P; a composition of the negative electrode sheet, by mass percentage, includes: 70-75% of a Fe₇S₈@N-C nanorod composite material, 15-20% of the conductive agent Super P, and 10% of sodium hydroxymethyl cellulose; the separator is a glass fiber membrane.