ABSTRACT

A new type of aqueous sodium ion capacitor with high safety and high specific energy is described wherein the cathode and anode are mixed electrodes. According to different rate and power performance requirements, the electrodes are composed of battery type materials and capacitive type materials with different proportions. The energy density is up to 45Wh/Kg, and the number of cycles is more than 30,000 at 3C rate.

Figure 1 to accompany Abstract