

ACTIVE ELECTRODE MATERIAL FOR A LI-S BATTERY

ABSTRACT

The present invention relates to an active material suitable for the production of an electrode, in particular an electrode for a Li-S battery. The active material according to the invention comprises carbon nanofillers homogeneously dispersed in the substance of a sulphur material, the active material being obtainable according to a method involving melting in the presence of intense mechanical energy. The quantity of carbon nanofillers in the active material represents 1 to 25% by weight with respect to the total weight of the active material. The active material according to the invention allows an improvement in the electronic conductivity of the formulation of the electrode. Another aspect of the invention is the use of the active material in an electrode, in particular in a Li-S battery cathode.