

TITLE OF INVENTION: [GLASSY CARBON MICRONEEDLE, PREPARATION METHOD THEREFOR AND USE THEREOF]

ABSTRACT

[Abstract]

The present invention relates to the field of glassy carbon preparation, and specifically to a glassy carbon microneedle, a method for preparing the same, and applications thereof. The glassy carbon microneedle is prepared by a centralized heat-preservation method. The method comprises the steps of: preparing a precursor, wherein the precursor has a microneedle structure to be formed; placing the precursor in a heating chamber, and performing key gradient heat preservation on the precursor in a relatively low temperature range, followed by a rapid temperature increase process to complete the final conversion into a glassy carbon material. The centralized heat-preservation method proposed in the present invention can effectively avoid defects such as foaming, deformation, and breakage of the glassy carbon microneedle patch, and optimize the performance of the glassy carbon product.

[Fig. 1]