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Synthesis, structural and optical properties of electrospun magnesium aluminate nanofibers

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Abstract

Magnesium aluminate (MgAl_2O_4) nanofibers were successfully synthesized by a combination of electrospinning and calcination processes. The as-spun fibers were calcined at 700, 800, and 900 °C for 2 h to crystallization of MgAl_2O_4 . X-ray diffraction result detected the crystalline phase of MgAl_2O_4 . Field emission scanning electron microscopy and transmission electron microscopy images revealed that MgAl_2O_4 nanofibers had rough surfaces with

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