

عنوان مقاله:

Phytosynthesis and characterization of porous composite MoO₃/Ag using Palmer amaranth plant

محل انتشار:

اولین همایش بین المللی علوم و فناوری نانو (سال: 1399)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

Nanocomposites designed for various biomedical purposes, which are often called “biomedical nanocomposites.” There are numerous prospective biomedical nanocomposites, which can be classified into various overlapping categories [1]. The most important biomedical uses of these biomedical nanocomposites comprise drug delivery, antimicrobial properties, tissue engineering, wound dressings, stem cell therapy, cancer therapy, cardiac prosthesis, artificial blood vessels, biosensors, and enzyme immobilization [2]. Herein, a MoO₃/Ag nanocomposite were firstly prepared via a conventional green chemistry method from Palmer amaranth (PA) as a weed. For this regards, MoO₃ nanoparticle was synthesized using ammonium heptamolybdate tetrahydrate in the present of PA extract solution at pH=3. The obtained sample from furnace at 700 °C for 3 h was dispersed at PA and silver nitrate (1mM) and stirred for 15 min. The MoO₃/Ag nanocomposite was gained and characterized using SEM, EDAX, elemental analysis, FT-IR and TGA confirming the structure, size, morphology and thermal stability.

کلمات کلیدی:

Bionanocomposite, MoO₃/Ag, Palmer amaranth, Phytosynthesis

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