

عنوان مقاله:

Synthesis of hybrid nanocomposites (ZnO-SnO₂) by Sol-gel method: review

محل انتشار:

اولین کنگره بین المللی شیمی و نانو شیمی از پژوهش تا فناوری (سال: 1397)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

Nanocomposite (NC) materials have gained much attention and interest of scientists in recent years because of their improved properties than the single metal nanoparticles. The synthesis of uniform sized nanocomposite is very important because their properties include optical, magnetic, electrical and biological properties depending on their size and dimensions. Sol-gel method gained attention as a promising method for the synthesis of nanomaterials owing to their mild reaction conditions and building up the materials from molecular precursors leading to variation in materials and properties. The sol-gel method has capability of producing micro and nanostructures. Metal oxide nanocomposites (ZnO-SnO₂) have proven themselves as the materials on 21st century with the range of application in every industry sector. The wet chemical methods mark the easy route for their fabrication that makes them cost-effective as well. Because of their simplicity in synthesis and wide range of tailorable properties these MONC are frequently used as adsorbents, photocatalyst, sensors, fuel cells, solar cells, packaging, antimicrobial agents, drug delivery, medical devices, surgical tools etc.

کلمات کلیدی:

Nanocomposite, Sol-gel, ZnO-SnO₂

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