

عنوان مقاله:

Preparation and characterization of Controlled Size of CdS Nanoparticles on the surface of TiO₂ Nanoparticles and Nanotube by Colloid method

محل انتشار:

سومین کنفرانس بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1397)

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خلاصه مقاله:

Synthesis of CdS nanoparticles using colloid method and then preparation of CdS/TiO₂ nanocomposite and CdS/TiO₂ nanotube and Samples prepared using SEM, UV-VIS absorption spectroscopy are investigated. These studies show that CdS nanoparticles are synthesized with relatively uniform dimensions and homogeneous structures. The SEM performed on samples showed CdS nanoparticles with 34 nm and TiO₂ nanocomposites at 77 nm. The mechanism of photocatalytic activity on CdS /TiO₂ nanocomposit and CdS /TiO₂ nanotubes under visible light are also discussed.

کلمات کلیدی:

Photocatalytic activity, CdS Nanoparticles, CdS/ TiO₂ Nanocomposite, TiO₂ Nanotubes

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