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عنوان مقاله:

Lead oxide nanoparticles for the photocatalytic degradation of methylene blue from aqueous solutions under solar irradiation

محل انتشار:

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خلاصه مقاله:

Herein, lead oxide (PbO) nanoparticles were successfully fabricated using Rosmarinus officinalis. The photocatalytic activity of PbO nanoparticles was evaluated for the degradation of methylene blue as an organic dye. About ۹۱% of photo-degradation of methylene blue dye was achieved in ۶۰ minutes under solar irradiation. The obtained results revealed that the PbO nanoparticles could be used as a low-cost green photocatalyst for the efficient degradation of methylene blue from aqueous media in environmental pollution clean-up.

کلمات کلیدی:

Lead oxide, Nanoparticles, Rosmarinus officinalis, Methylene blue, Degradation

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