

عنوان مقاله:

Effect of substituted-hydroxyl groups on porphyrin ring in the photodegradation of 4-Nitrophenol

محل انتشار:

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خلاصه مقاله:

Photodegradation of pollutants is gaining extensive attention from the point of view eco-friendly. TiO_2 is believed to be one of the most active photocatalysts. However, critical drawbacks of TiO_2 are the large band gap and low surface area. Immobilization of TiO_2 on support is a good manner to overcome to these disadvantages. On the other hand, Photosensitized catalysis is the initiation of degradation or transformation reactions of molecules using a combination of light and photoactive materials as catalysts [1,2]. Photodegradation of 4-Nitro phenol was performed in the presence of H_2O_2 as oxidant reagent. However, H_2O_2 is an oxidative material and may be have some drawback [3,4]. Motivation above work, Here we wish to report synthesise of the heterogenized functional metalloporphyrin with various number of OH group and investigation of their catalytic activity in the photodegradation of 4-Nitrophenol

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