

## عنوان مقاله:

Investigation of photocatalytic denitrification of ZnO:Cu photocatalyst

## محل انتشار:

پانزدهمین کنگره ملی مهندسی شیمی ایران (سال: 1393)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

ZnO:Cu photocatalyst is prepared with reacting media namely water method and also wet impregnation method is used for precipitation of Cu on ZnO nano particles. X-ray diffraction (XRD) was used for determination size of ZnO:Cu particles. Field Emission Scanning Electron Microscope (FESEM) was used to study nanoparticles morphology. Prepared ZnO:Cu nanoparticles were contacted with ammonium nitrate aqueous solution (50 mg.L<sup>-1</sup>) and irradiated with UV. Results indicated that ZnO:Cu photocatalyst has high photocatalytic activity to degradation of nitrate from .aqueous solution. The results showed that complete degradation was achieved after 2.5 hr

## کلمات کلیدی:

ZnO , Cu, Photocatalytic activity, Nitrate removal

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/368224>

