

## عنوان مقاله:

The Study on Synthesis of Polyaniline Zirconium Dioxide Nanocomposite and its Efficiency in Wastewater Treatment Processes

## محل انتشار:

دومین کنفرانس بین المللی و سومین همایش ملی کاربرد فناوری های نوین در علوم مهندسی (سال: 1394)

تعداد صفحات اصل مقاله: 10

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## خلاصه مقاله:

Zirconium dioxide polyaniline nanocomposite were prepared through sol-gel method. The chemical structure and morphology of nanocomposite was analyzed through XRD, FTIR and SEM. It was examined how the catalytic activity of synthesized nanoparticles removed Malachite green. For investigation of the removal efficiency of Malachite green by ZrO<sub>2</sub> nanocomposite, the concentration of Malachite green, time, amount of adsorbent and pH were measured. The absorption level was evaluated by Langmuir and Freundlich equations

## کلمات کلیدی:

malachite green, pollutant, catalytic activity, zirconium dioxide, polyaniline

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/501663>

