

## عنوان مقاله:

Synthesis of responsive theranostic nanogels

## محل انتشار:

بیست و هفتمین کنفرانس شیمی آلی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

Khadije Soleimani, - *Department of Chemistry, Faculty of Basic Science, Lorestan University, Khoramabad, Iran*

Shabnam Sattari, - *Department of Chemistry, Faculty of Science, Lorestan University, Khorramabad, Iran*

Siamak Beyranvand, - *Department of Chemistry, Faculty of Basic Science, Lorestan University, Khoramabad, Iran*

Abbas Dadkhah Tehrani - *Department of Chemistry, Faculty of Basic Science, Lorestan University, Khoramabad, Iran*

Mohsen Adeli - *Department of Chemistry, Faculty of Basic Science, Lorestan University, Khoramabad, Iran*

## خلاصه مقاله:

Theranostic nanogels simultaneously carrying both fluorescence-activable probes and therapeutic agents were primarily utilized to investigate drug delivery process. Targeted molecular imaging, an essential component of a theranostic system, can be used to image and track molecular targets involved in disease progression. Nanogels have the characteristics of hydrogels and colloidal nanoparticles such as blood transfusion capability, absorbing a large percentage of water, biocompatibility, high loading capacity and precision of active substances.<sup>1-4</sup> In this study, novel redox-sensitive nanogels with theranostic performance to significant abnormalities in the blood were synthesized. The performance of the theranostic system was evaluated in the measurement of hydrogen peroxide in the blood samples of cancerous patients using fluorescence technique. Results revealed that this theranostic nanogel .can be used at treatment centers for early diagnosis and treatment of cancer

## کلمات کلیدی:

Theranostic nanogel, Redox-sensitive, Doxorubicin

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1163891>

