

#### عنوان مقاله:

Encapsulation of Tamoxifen Citrat in Functionalized Nanoporous porous Silica and Investigation of its Release

### محل انتشار:

دومين كنفرانس ملى زئوليت ايران (سال: 1394)

تعداد صفحات اصل مقاله: 2

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#### خلاصه مقاله:

Several nanoporoussilica (MCM-41, SBA-15, MCF-17 and MCF) with different texture, pore size and surface area was synthesized by a hydrothermal method. These parent materials were then functionalized with 3-mercapto propyl trimethoxysilane (MPTMS), and this followed by oxidation of thiol groups to the corresponding sulfonic group. After characterization of materials by infrared spectroscopy, X-ray diffraction, thermal and elemental analysis, they used as carries to study loading and release oftamoxifen citrate as an anti-cancer drug by UV-Vis spectroscopy. The optimization measurements of time and amount of drug loading indicated a higher loading of tamoxifen citrate in SBA-15-SO3H and MCM-41-SO3H. Release of tamoxifen as a function timeand pH in the presence and absence NaCl .was investigated. Results showed a fast kinetic of drug release in MCF-SO3H in acidic condition in presence of NaCl

# كلمات كليدى:

Nanoporous silica; Tamoxifen citrate; SO3H factor; Drug loading; Drug release

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