عنوان مقاله:

Evaluation of the effective factors on size and anti-bacterial properties of biosynthesized Silver nanoparticles

محل انتشار:

مجله بین المللی ابعاد نانو, دوره 6, شماره 2 (سال: 1394)

تعداد صفحات اصل مقاله: 18

نویسندگان:

.B. Khodashenas - *Department of Chemical Engineering, Shahrood Branch, Islamic Azad University, Shahrood, Iran*

H. R. Ghorbani - *Department of Chemical Engineering, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran.*

خلاصه مقاله:

Developing reliable and eco-friendly processes for the synthesis of metallic nanoparticles is an essential step in the field of application of nanotechnology .Using natural factories such as biological systems is a way of developing such processes. Nowadays, the synthesis of silver nanoparticles is very common due to its numerous applications in different fields. The synthesis of these nanoparticles is carried out through physical, chemical and biological methods. However, due to its inexpensive and environmentally friendly features, the biological method is preferred to the other two methods. In the present article, the factors influencing the size of synthesized silver nanoparticles using biological methods (Which consists ofliving organisms such as: Plants, Fungi, Bacteria and Yeast) and the anti-bacterial properties of silver nanoparticles were investigated.

کلمات کلیدی:

Silver nanoparticles, Biosynthesis, effective factors, Silver precursor, Antibacterial

لینک ثابت مقاله در پایگاه سیویلیکا: