عنوان مقاله:
Synthesis and size control of monodisperse copper nanoparticles by polyol method

محل انتشار:
دومین کنفرانس نانوساختارها (سال:1386)

تعداد صفحات اصل مقاله: ۲ صفحه

نویسندگان:
A Farhangi - Pilot Biotechnology Department, Pasteur Institute of Iran
A Akbarzadeh - Pilot Biotechnology Department, Pasteur Institute of Iran
D Norozian - Pilot Biotechnology Department, Pasteur Institute of Iran
D Zare - Department of Chemistry, University of Isfahan,

خلاصه مقاله:
We describe herein the synthesis of metallic copper nanoparticles in the presence of poly (ethylene glycol), employed as a protecting agent, via a polyol method in ambient atmosphere. In this work we used ascorbic acid as reducer. The obtained copper particles were confirmed by X-Ray Diffraction (XRD). We observed monodisperse spherical copper nanoparticles with a diameter range of $54 \pm 8$ nm by Scanning Electron Microscopy (SEM).

کلمات کلیدی:
“copper nanoparticles;” “ascorbic acid;” “poly ethylene glycol (PEG);”

لینک نتیجه نمایش فوق در سیویلیکا:
https://www.civilica.com/Paper-CNS02-CNS02_037.html