

عنوان مقاله:

Growth of long silver nanowires in high yield Polyol process

محل انتشار:

پنجمین کنگره بین المللی نانو و فناوری نانو (ICNN2014) (سال: 1393)

تعداد صفحات اصل مقاله: 4

نویسندگان:

A Nekahi - *Department of Mining and Metallurgical Engineering, Amirkabir University of Technology, Tehran, Iran*

P.H Marashi - *Department of Mining and Metallurgical Engineering, Amirkabir University of Technology, Tehran, Iran*

D Haghshenas - *Department of Mining and Metallurgical Engineering, Amirkabir University of Technology, Tehran, Iran*

خلاصه مقاله:

Silver nanowires were produced in a polyol synthesis using AgNO₃ salt in ethylene glycol at the presence of PVP as preferential growth agent. Long nanowires with average length of 25 μm with uniform diameter in their length were reproduced. This typical process leads to the formation of high yield silver nanowires with less than 5% byproducts of nanoparticles.

کلمات کلیدی:

Polyol synthesis; silver nanowires; high yield

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/397850>

