

عنوان مقاله:

Copper Nano powders synthesized in two different dielectrics (Ethanol/DI-Water) by electro discharge method

محل انتشار:

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خلاصه مقاله:

Electro discharge method was used to synthesize copper nanostructures. In this method two copper electrodes submerged in two different dielectrics (deionized water and ethanol). The effect of dielectric on synthesized powders were investigated. Results indicate that, powder production rate in deionized water was noticed to about 2 times greater than production rate in ethanol. Size and shape of particles were investigated versus different dielectrics with using FESEM test. Result indicate that, powders synthesized in ethanol, with mean particle size of 45 nanometers, are smaller than powders synthesized in deionized water. Additionally, in this research, particles in ethanol dielectric .with less agglomeration were produced compared to produced powders deionized water dielectric

کلمات کلیدی:

Electro discharge method, copper nanostructures, ethanol dielectric, deionized dielectric

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