

عنوان مقاله:

Production of Nano Leaded Brass Alloy by Oxide Materials

محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Iman Farahbakhsh - *Islamic Azad University of Qouchan, Khorasan, Iran*

S. Hadi Tabaian - *Faculty of Metallurgy Engineering, Amirkabir University, Tehran*

Jalil Vahdati Khaki - *Department of Engineering, University Ferdowsi of Mashhad, Mashhad*

خلاصه مقاله:

In this study, formation of leaded brass by mechanochemical method is investigated using metal oxides and graphite as starting materials. Also, the effects of milling time and atmosphere on this process are evaluated. Alpha brass was produced when CuO, ZnO and PbO were milled under argon atmosphere in the presence of graphite (as reducing agent). Concurrent reduction of zinc, copper and lead oxides took place in the argon atmosphere, whereas the reduction reactions did not proceed well in the closed chamber filled with air. These reactions were promoted by milling time up to 100 hours. The amount of reduction tends to decrease for longer times

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/163769>

