عنوان مقاله:

Synthesis and characterization of TiB7 nanopowder

محل انتشار:

اولین همایش بین المللی نانو تکنولوژی در فرآیندهای مهندسی (سال: 1402)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Gholamreza Khalaj - Department of Materials Science and Engineering, Saveh Branch, Islamic Azad University, Saveh, Iran

Abolhassan Najafi - Department of Materials Science and Engineering, Saveh Branch, Islamic Azad University, Saveh, Iran

## خلاصه مقاله:

In this research, TiB2 powder was synthesized using the sol-gel process, resulting in nanometer-scale dimensions. Raw materials employed included titanium isopropoxide and trimethyl borate. Various analytical techniques, including DLS, Zetameter, XRD, FTIR, SEM, and DTA/TG, were employed to elucidate the mechanism of product formation in the sol-gel process. FTIR data indicated the presence of B-Ti and carbon-containing bonds within the \$\(\text{\$\cdot \cdot \cdo

كلمات كليدى:

Titanium diboride, Synthesis, Sol-gel, Nanopowder, Mesoporous

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