

## عنوان مقاله:

Investigation of Non-isothermal Kinetics of Fluorapatite Synthesis via Solid State Reaction

## محل انتشار:

اولین کنفرانس بین المللی مواد پیشرفته (سال: 1391)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

S Rahpeyma - M.Sc student, Department of Material Engineering, Islamic Azad University-Najafabad Branch, Isfahan, Iran

R. Ebrahimi-Kahrizsangi - Associate Professor, Department of Material Engineering, Islamic Azad University-Najafabad Branch, Isfahan, Iran

## خلاصه مقاله:

In this research, the kinetics of Fluorapatite synthesis via mechanochemical route in non-isothermal conditions was studied. The reaction kinetics was investigated by means of simultaneous thermal analysis(STA) instrument. The experiments were carried out under non-isothermal condition in argon atmosphere with linear heating rates of 15, 10 and 7 °C/min. The Coats-Redfern approximation was used to determine the mechanism of reaction and Kinetics parameters. The results showed that the reactions are chemically controlled with mechanism of  $E = 16 \text{ KJmol}^{-1}$ .

## کلمات کلیدی:

Fluorapatite, Mechanochemical synthesis, Reaction mechanism, Kinetics

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/151084>

