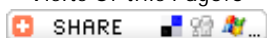




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Research Details :

Research Title : *KINETIC-ANALYSIS OF THERMAL-DECOMPOSITION REACTIONS . 7. EFFECT OF RADIATION AND DOPING ON THE THERMAL-DECOMPOSITION OF BACO3-TIO2 AND SRCO3-TIO2 CRYSTALLINE MIXTURES*
KINETIC-ANALYSIS OF THERMAL-DECOMPOSITION REACTIONS . 7. EFFECT OF RADIATION AND DOPING ON THE THERMAL-DECOMPOSITION OF BACO3-TIO2 AND SRCO3-TIO2 CRYSTALLINE MIXTURES

Descriptipn : DTA-TG techniques were applied to study the thermal decomposition and reactivity in intimately mixed powders of barium or strontium carbonate and titanium dioxide. The results showed that the temperature for the thermal decomposition of BaCO₃-TiO₂ mixtures precedes the decomposition of pure BaCO₃ by about 250-degrees-C, whereas the decomposition of SrCO₃-TiO₂ mixtures precedes the decomposition of pure SrCO₃ by about 60-degrees-C. Kinetic analysis of the isothermal data in view of various solid-state reaction models showed that the reaction is best described by the phase boundary models. The effects of Co-60 gamma-irradiation and of doping the metal oxide with Li⁺ or Cu²⁺ ions on the thermal decomposition reactions were investigated.

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