

عنوان مقاله:

production of coloured zircon ceramic pigment

محل انتشار:

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خلاصه مقاله:

Zircon (ZrSiO_4) pigments are commonly used in the ceramic because of their high chemical and thermal stability in high temperature application. The coral iron–zircon is one of the three classical zircon based ceramic pigments. In this study iron-zircon pigment were synthesized by sol-gel method with different precursors (FeSO_4 , $\text{Fe}(\text{NO}_3)_3$ and FeCl_3) of iron and characteristics were studied using X-ray diffraction. The color of the pigments was characterized on the grounds of the CIE (Commission International de l'Eclairage) standard procedure (CIE $L^*a^*b^*$ measurements). Results show a pink-coral color is obtained

کلمات کلیدی:

zircon , pigment , hematite , sol-gel

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