عنوان مقاله:

Low temperature combustion synthesis of CoCr2O4 nano pigment

محل انتشار:

ششمیّن کنگره بیّن المللی رنگ و پوشش (سال: 1394)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

In this work, CoCr2O4 nano pigment was synthesized via low temperature combustion method using oxalic acid/ethylene diamine/citric acid as a new mixture fuel. Physi cochemical properties of the nano pigment were characterized by fourier transform infrared (FTIR), X-ray di ffraction (XRD), while optical properties these powders were characterized by colorimetric test in CIELAB system. In the XRD pattern all the diffraction peaks are attributed to a cobalt chromite spinel single pha se. The average crystallite size of the spinel calculated from the width at half .maximum of the XRD peaks by the Debye-Scherrer equation is 15.17 nm

کلمات کلیدی: Nano pigment- Colorimetry- CoCr2O4- Oxalic a cid- Ethylene diamine

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