TỔNG HỢP MN2O3 KÍCH THƯỚC NANOMET BẰNG PHƯƠNG PHÁP ĐỐT CHÁY GEL Ở NHIỆT ĐỘ THẤP

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TÓM TẮT:

Manganese oxide power has been synthesised at low temperature (6000C) by the combustion of gel prepared from polyvinyl alcohol (PVA) and Manganese nitrate. Mn2O3 characterization is examined by X-ray diffraction (XRD), thermogravimetric and differential thermal analysis (TG-DTA), scanning electron microscopy (SEM) and BET (Brunaure-Emmet-Teller) measurements. Further thermal treatment at 500-8000C in 2h yields the single phase Mn2O3 with average primary size < 80 nm. It specific surface area is 47 m2/g for Mn2O3.