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Starch assisted sol gel syntheses and characterization of NdFeO_3

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Abstract: Neodymium orthoferrite (NdFeO_3) was synthesized by starch assisted sol-gel combustion method. The structural, phase conformation and chemical composition were studied and effectiveness of optical and magnetic properties were investigated. Fundamental expressions such as magnetic saturation, retentivity, and coercivity are accentuated because these characteristics strongly affect the magnetic properties of the ceramics.

Key words: Sol-gel combustion, Ferrite, optical band gap, magnetic property.

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