Synthesis and Characterization of Gd.6S.4Fe.8Co.2 as SOFC cathode material

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Gd.6Sr.4Fe.8Co.2O3 powder material were synthesized by the glycine nitrate method. XRD analysis indicate that the powder exhibits orthorhombic and cubic phase. The electrical conductivity of Gd.6Sr.4Fe.8Co.2 increases with temperature and reaches a maximum and then decrease with further increase in temperature. Cathode material were characterized by XRD and SEM.