**A study of structural and dielectric properties of Double perovskite Ho2NiMnO6 Compound**

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**Abstract:** The fascinating and diverse properties of Double Perovskites (DP) materials have attracted the attention due to electrical, magnetic and structural properties. Because to their potential for use in capacitive devices, memory devices, tunable microwave filters, and other devices, the Double Perovskites (DP) have recently gained a lot of scientific interest. These compounds are known to exhibit near-room-temperature magnetocapacitance and magnetoresistance. The DP compound (Ho2NiMnO6**)** was prepared by conventional solid state reaction method. The X-ray diffraction (XRD) analysis confirms the structure is monoclinic with the space group P21/*n.* The phase formation was further verified via FTIR spectral studies. The micro structural investigation on the above material is carried out with the help of a scanning electron micrograph (SEM). These SEM micrographs showed that the grains of varying sizes are uniformly distributed. The study of dielectric characteristics as a function of temperature and frequency revealed some interesting characteristics of the material.