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## Investigation of Co<sub>0.9</sub>Ho<sub>0.1</sub>MoO<sub>4</sub> Nanopowders Obtained by Glycine Nitrate Procedure

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Nanometric size  $Co_{0.9}Ho_{0.1}MoO_4$  powder particles were obtained by applying glycine nitrate procedure (GNP). Powder properties have been studied by DTA, X-ray diffraction (XRD), Fourier transform infrared (FT-IR) spectra, Spectroscopy, Field emission scanning electron microscopy (FESEM), and nitrogen adsorption method. The photocatalytic activity of acquiring  $Co_{0.9}Ho_{0.1}MoO_4$  nanopowders was estimated by the photocatalytic degradation of crystal violet in an aqueous solution. We present a simple and effective method for controlling the composition and morphology of  $Co_{0.9}Ho_{0.1}MoO_4$ , as well as a possible new approach in inorganic synthesis methodology. During photocatalytic testing, the studied nanoparticle powder indicated a potentially promising solution in photocatalytic processes toward green chemistry and sustainable development.

Keywords: X-ray diffraction, Electron microscopy, Nanostructured materials

## **Reference**:

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