

Magnetic and Optical Properties of GaFeMnN

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Abstract : The full-potential linearized augmented plane wave method (FP-LAPW) within the Generalized Gradient Approximation (GGA) is used to calculate the magnetic and optical properties of quaternary GaFeMnN. The results show that the compound becomes magnetic and half metallic and there is an apparition of peaks at low frequencies for the optical properties.

Keywords : FP-LAPW, LSDA, magnetic moment, reflectivity

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