World Academy of Science, Engineering and Technology
International Journal of Physical and Mathematical Sciences
Vol:8, No:10, 2014

Theoretical Investigations on Optical Properties of GaFeMnN Quaternary Compound

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Abstract : Using first principles calculations based on the density functional theory and local spin density approximation, we investigate optical properties of GaFeMnN quaternary compound. Results show that optical properties confirm that GaFeMnN can be a good candidate in the design of thin film solar cells in the visible and ultraviolet parts of the spectrum, and a good sensor in the infrared

Keywords : GaN, optical absorption, semi-metallic, dielectric function
Conference Title : ICAAPMS 2014 : International Conference on Advances in Applied Physics and Materials Science
Conference Location : Bali, Indonesia
Conference Dates : October 09-10, 2014