

Table of Contents

Volume 5 Number 3

August 2015

Study of Upper Critical Magnetic Field of Superconducting HoMo_6Se_8

- T. Desta, P. Singh, G. Kahsay..... 105

Transport Characteristics of Charge Carriers in Normal State Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$

- V. Palenskis..... 118

γ -Ray Modifications of Optical/Chemical Properties of Polycarbonate Polymer

- D. P. Gupta, S. Kumar, P. C. Kalsi, V. K. Manchanda, V. K. Mittal..... 129

Coexistence of Superconductivity and Antiferromagnetism in $\text{SmAsO}_1\text{-xFxFe}$

- A. Mebrahtu, P. Singh..... 138

A Study of Superconducting La_2CuO_4 via Generalized BCS Equations Incorporating Chemical Potential

- G. P. Malik, V. S. Varma..... 148

Modeling of a Cubic Antiferromagnetic Cuprate Super-Cage

- H. H. Otto..... 160

Berry Approach to Intrinsic Anomalous Hall Conductivity in Dilute Magnetic Semiconductors ($\text{Ga}_{1-x}\text{Mn}_x\text{As}$)

- S. Mekonnen, P. Singh..... 179

Mixed Spin-2 and Spin-3/2 Blume-Emery-Griffiths (BEG) Model on the Bethe Lattice

- M. Karimou, R. Yessoufou, F. Hontinfinde..... 187

Fabrication, Characterization and Optical Properties of CuIn_3Se_5 Bulk Compounds

- D. Habib, O. Aoudé, S. Karishy, G. El Haj Moussa..... 201

Structure and Dielectric Relaxation Behaviour of $[\text{Pb}_{0.94}\text{Sr}_{0.06}][(\text{Mn}_{1/3}\text{Sb}_{2/3})_{0.05}(\text{Zr}_{0.49}\text{Ti}_{0.51})_{0.95}]\text{O}_3$ Ceramics

- K. Brajesh, K. Kumari..... 209

Investigation of the Effect of Film Thickness and Heat Treatment on the Optical Properties of TeSeSn Thin Films

- A. E. B. Alwany, O. M. Samir, M. A. Algradee, M. M. Hafith, M. A. Abdel-Rahim..... 220

Polarization and Breakdown Analysis of AlGaN Channel HEMTs with AlN Buffer

- G. Raj, M. Kumar, C. K. Sarkar..... 232

Entanglement: A Modern Aspect of Nature

- J. Cordelair..... 244