

TABLE OF CONTENTS

Volume 4 Number 1

February 2014

The Influence of γ -Irradiation on Thermoemf and Heat Conduction of $\text{Ln}_{0.01}\text{Sn}_{0.99}\text{Se}$ (Ln – Pr, Tb, Er) Monocrystals

J. I. Huseynov, T. A. Jafarov.....1

Magnetometry and Hyperthermia Study of Magnetic Fluid Preparation UNIMAG

G. I. Mamniashvili, S. V. Mikeladze, T. O. Gegechkori, B. V. Surguladze, G. N. Pichkhaia, A. M. Akhalkatsi, D. M. Daraselia, D. L. Japaridze.....6

Effect of Sintering Time on the Structural, Magnetic and Electrical Transport Properties of $\text{Mg}_{0.35}\text{Cu}_{0.20}\text{Zn}_{0.45}\text{Fe}_{1.94}\text{O}_4$ Ferrites

M. Aliuzzaman, M. M. Haque, M. J. Ferdous, S. M. Hoque, M. A. Hakim.....13

“Smart Design” of Quantum Wells and Double-Quantum Wells Structures

I. Tralle, K. Majchrowski.....24

The Evolution of the Charge Density Distribution Function for Spherically Symmetric System with Zero Initial Conditions

E. E. Perepelkin, N. G. Inozemtseva, A. A. Zhavoronkov.....33

Thermal Conductivity of Superconducting MgB_2

G. P. Malik, U. Malik.....39

Shear Viscosity of a Superfluid Dipolar Gas at Low Temperatures

M. K. Dehkordi.....48

The figure on the front cover is from the article published in World Journal of Condensed Matter Physics, 2014, Vol. 4, No. 1, pp. 33-38 by Evgeny E. Perepelkin, Natalia G. Inozemtseva and Alex A. Zhavoronkov.