

Table of Contents

Photoluminescence and Supercapacitive Properties of Carbon Dots Nanoparticles: A Review

N. Manhas, L.S. Kumar and V. Adimule 1

Controlled Synthesis and Electrical Properties Study of GeAs_2Te_4 Single Crystals

M.X. Yu, J.W. Chen, Y.C. Du, W.Z. Han, M. Mei, X.D. Zhu and L. Li 23

Nanotechnology and their Evaluation of Bi-Functional Applications

A. Giridasappa, K.K. Kiran and S. Rajendrachari 33

An Overview of Nanocomposites with Recent Advancements

A. Oğuzyer and S. Rajendrachari 45

The Use of Fourier Synthesis and Maximum Entropy Method to Investigate Crystalline Defects of the $\text{T}'\text{-Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ Nanocrystals

P.E.D. Putra, M.A. Baqiya, R. Irfanita, R. Fajarin and Darminto 57

Functional Effect in Density Functional Theory Calculation of $\text{Au}_{23}(\text{SR})_{16}$ Nanocluster

S.S. Mohd-Tajudin, W.N. Zaharim, S. Shukri, S.N.A. Ahmad, D.F. Hasan-Baseri, A.L. Sin, R. Risdiana, L. Safriani and I. Watanabe 65