

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 GeAs₂Te₄ 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. Oğuzer and S. Rajendrachari 45

The Use of Fourier Synthesis and Maximum Entropy Method to Investigate Crystalline

Defects of the T'-Pr_{2-x}Ce_xCuO₄ Nanocrystals

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

Functional Effect in Density Functional Theory Calculation of Au₂₃(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