

Table of Contents

Elastic Moduli of Carbon Nanotubes Using Second Generation Improved Brenner Potential D. Kumar, V. Verma and K. Dharamvir	1
Synthesis of Nano CuO by Polymeric Precursor Method and its Low Temperature Reduction to Stable Copper Nanoparticles V. Andal and G. Buvaneswari	11
Synthesis of Fe-Co Nanobars Using Sodium Sulfite Assisted Polyol Process and their Structural and Magnetic Studies G. Suresh, P. Saravanan and D. Rajan Babu	21
Hydrogen Storage on Platinum-Decorated Carbon Nanotubes with Boron, Nitrogen Dopants or Sidewall Vacancies J.G. Zhou and Q.L. Williams	29
Mechanical Properties of Glass Fibre-Epoxy Based Polymer Nanocomposites S.K. Srivastava and I.P. Singh	41
<i>In Situ</i> Filling of Fe/Ni Oxide Nanowire into Carbon Nanotubes Doped with Nitrogen in CH₄/H₂/Air Plasma X. Wang, Y.Y. Wang, W.T. Zheng and Z. Wang	51
Synthesis of Carbon Nanostructures and CaCO₃ Nanoparticles by Arc Discharge in Mineral Water V. Eskizeybek, E.S. Karabulut and A. Avci	57
Growth and Experimental Evidence of Quantum Confinement Effects in Cu₂O and CuO Thin Films S.D. Pappas, P. Pouloupoulos, V. Kapaklis, S. Grammatikopoulos, D. Trachylis, M.J. Velgakis, E.I. Meletis and C. Politis	69
On the Solid Hydrogen Intercalation in Multilayer Carbohydride-Like Graphane Nanostructures, Relevance to the Storage Applications Y.S. Nechaev	75
Growth and Magnetism of Natural Multilayers P. Pouloupoulos, S.D. Pappas, V. Kapaklis, P.E. Jönsson, E.T. Papaioannou, A. Delimitis, D. Trachylis, M.J. Velgakis, E.I. Meletis and C. Politis	95
Mechanical Properties of Silicon-Germanium Nanotubes under Tensile and Compressive Loadings A. Setoodeh, H. Attariani and M. Jahanshahi	105