

Table of Contents

Electrical Properties of Copper Oxide Nanoparticles S. Sagadevan and M. Priya	1
Mechanical Properties of Epoxy Nanocomposites Using Alumina as Reinforcement - A Review D. Pinto, L.F.A. Bernardo, A. Amaro and S. Lopes	9
Self-Cleaning TiO₂ Nanofilms on FTO Glass: Influence of Electrophoretic Deposition and UV Irradiation Conditions N. Horandghadim, M. Ghorbani and A. Dolati	39
Nitrogen-Doped Carbon Nanotubes and Graphene Nanohybrid for Oxygen Reduction Reaction in Acidic, Alkaline and Neutral Solutions J.Y. Liu, Z. Wang, J.Y. Chen and X. Wang	50
Molecular Dynamics Simulation of Size Effect on the Mechanical Properties of Amorphous Silica F.L. Duan, C. Zhang and Q.S. Liu	59
Texture and Magnetism of Nanocrystalline Ni Films and Multilayers P. Poulopoulos, A. Vlachos, S. Grammatikopoulos, V. Karoutsos, P.S. Ioannou, N. Bebelos, D. Trachylis, M.J. Velgakis, E.I. Meletis and C. Politis	68
CdSe Quantum Dot-Sensitized Solar Cell: Effect of Size and Attach Mode of Quantum Dot F.Y. Shao, M. Li, J.W. Yang, Y.P. Liu and L.Z. Zhang	78
Chemical Characterization of DC-Sputtered In₂O₃ Films with a Top SnO₂ Layer Á. Bedoya-Calle, M. García-Méndez, A. Torres-Castro, S. Shaji and U. Ortiz-Méndez	86
Effect of Nature of Surfactant on the Formation of β-Ag₂Se Nanoparticles and Optical Properties of β-Ag₂Se and ZnS/β-Ag₂Se Nanocomposite V. Andal and G. Buvaneswari	96
Development and Optimization of Biometal Nanoparticles by Using Mathematical Methodology: A Microbial Approach S. Honary, H. Barabadi, P. Ebrahimi, F. Naghibi and A. Alizadeh	106
The Expression of Inflammatory Cytokine and Heme Oxygenase-1 Genes in THP-1 Cells Exposed to Metal Oxide Nanoparticles M. Horie, K. Nishio, H. Kato, S. Endoh, K. Fujita, A. Nakamura, A. Miyauchi, S. Kinugasa, Y. Hagihara, Y. Yoshida and H. Iwahashi	116
Prolonged Release and Cytocompatibility on Immortalized Keratinocytes of CoQ10-Loaded Nanostructured Lipid Carrier J.M. Wang and Q. Xia	128