

Table of Contents

Preface for Special Section

Special Section

Synthesis and Characterization of CoFe₂O₄ & NiFe₂O₄ Magnetic Nanoparticles for Various Biomedical Applications: Cell Viability and Cell Death Evaluations N. Momin, A. Deshmukh and S. Radha	1
Effects of Ni Concentration on the Structural and Magnetic Properties of NiZnFe₂O₄ Ferrites Synthesized via a Polymer Precursor J. Jadhav, S. Biswas, A.K. Yadav, S.N. Jha, D. Bhattacharyya and N.K. Sahoo	9
Sensitivity Parameter Analysis of Graphene Based Bimetallic Surface Plasmon Resonance Biosensor G. Mohanty, B.K. Sahoo and J. Akhtar	17
Effect of Annealing on Optical and Structural Properties of Rutile TiO₂ Nanoarrays A.H. Mayabadi, V.S. Waman, A.M. Funde, H.M. Pathan and S.R. Jadkar	23
Nanocarriers for Delivery of Herbal Based Drugs in Breast Cancer - An Overview K. Wani, K. Tarawadi and R. Kaul-Ghanekar	29
Dispersion, Characterization and Uptake of Multi-Walled Carbon Nanotubes by Epithelial Cells S. Sinha, K. Kosaraju and S. Aravamudhan	41

Additional Papers

Detecting Antibody-Labeled BCG MNPs Using a Magnetoresistive Biosensor and Magnetic Labeling Technique T.R.G. Barroso, V.C. Martins, F. Cardoso, S. Cardoso, J. Pedrosa, M. Correia-Neves, J. Rivas and P.P. Freitas	49
Comparative Study of AFM and FESEM for Imaging the Single Cell of Escherichia Coli Bacteria K. Ibrahim, M.H. Khalid, M.H. Eisa, M.N. Najimudin, M.A. Al Rajhi and H. Idriss	61
Ferroelectric-Relaxor Behavior of Highly Epitaxial Barium Zirconium Titanate Thin Films M. Pal, M. Liu, C.R. Ma, C.L. Chen, R. Guo and A. Bhalla	67
ZnSe Quantum Dots through a Facile one Pot Synthesis Process I. Syed and S. Chawla	73
Effects of Reaction Parameters on the Growth and Optical Properties of PbSe Nanocrystals I.L.A. Ouma, P. Mushonga and M.O. Onani	79
Study of Structural, Surface Morphological and Dielectric Properties of Cu-Doped Tin Oxide Nanoparticles S. Sagadevan	91
Barium Carbonate Nanorods Synthesized through Multi-Phase Equilibrium Microemulsions L.P. Liu, Y. Yin and J.C. Hao	99