

Table of Contents

Introduction to the Inaugural Issue of JNanoR

Foreword of Professor Sir H.W. Kroto

A High-Resolution Amperometric Acetylcholine Sensor Based on Nano-Assembled Carbon Nanotube and Acetylcholinesterase Thin Films

W. Xue and T. Cui

1

Synthesis, Structural and Mechanical Characterization of Amorphous and Crystalline Boron Nanobelts

H. Ni and X.D. Li

10

A Novel Approach to Synthesis of FePt Magnetic Nanoparticles

K.E. Elkins, G.S. Chaubey, V. Nandwana and J.P. Liu

23

Molecular Dynamics Simulations of Nanoparticle-Surface Collisions in Crystalline Silicon

P. Valentini and T. Dumitrica

31

Magnetorheology of Multiwalled Nanotube Dispersions in Mineral Oil

N.A. D'Souza and Z.T. Yang

40

Computational Issues in Biomedical Nanometrics and Nano-Materials

H. Huang, L. Shen, J. Ford, Y.H. Wang and Y.R. Xu

50

Orientation Preferred Structures in BaTiO₃ Thin Films on Ni Substrates

J. Jiang, E.I. Meletis, Z. Yuan, J. Liu, J. Weaver, C.L. Chen, B. Lin, V. Giurgiutiu, R.Y. Guo, A.S. Bhalla, D. Liu and K.W. White

59