

Table of Contents

Effect of Acidulated Phosphate Fluoride Gel on the Surface of Dental Nanocomposite Restorative Materials D. Dionysopoulos and E. Koliniotou-Koumpia	1
Obtaining Ultra-High Surface Area TiO₂ Nanorods via Hydrothermally Transformation of Elongated Titanate Nanotubes S.D. Yuan, S.Q. Chen, X. Zhu, P. Xiong, Y.F. Yang, Z.H. Hu and J. Xiong	13
Thermal and Small-Scale Effects on Vibration of Embedded Armchair Single-Walled Carbon Nanotubes A. Hamidi, M. Zidour, K. Bouakkaz and T. Bensattalah	24
Controllable Growth of ZnO Microstructures via a Solution Route X.L. Li, S.P. Hou, L.C. Zhang, B. Wang, R.X. Xiao and X.F. Liu	39
Aluminium Nanoparticles Prepared by Ultrasonic Ablation Technique inside the Active Layer of Organic Solar Cell Y.A.M. Ismail	48
Effect of the Size of the Dopants on the Dielectric and Magnetic Properties of Bi(La,Gd)FeO₃ Multiferroic Materials A.D. Mani and I. Soibam	61
Synthesis Photocatalytic TiO₂/ZnO Nanocomposite and Investigation through Anatase, Wurtzite and ZnTiO₃ Phases Antibacterial Behaviors H. Mohammadi and M. Ghorbani	69
Cathodic Arc Deposition of TiCN Coatings - Influence of the C₂H₂/N₂ Ratio on the Structure and Coating Properties N. Petkov, T. Bakalova, H. Bahchedzhiev, P. Louda, P. Kejzlar, P. Capkova, M. Kormunda and P. Rysanek	78
Fatigue and Corrosion Fatigue of the Roll Steels with Surface Nanostructure V. Kyryliv, B. Chaikovs'kyi, O. Maksymiv and B. Mykytchak	92