

Table of Contents

Molecular Dynamics Simulation of Shock Wave Propagation in Aluminum Single Crystal Y.Y. Ju and L. Zhang	1
Effect of Ternary Element Addition on Properties of TiNi-Based Shape Memory Alloys for Engineering and Medical Applications M. Ahmad	7
Optimization of Ultrasonication Time and Amplitude to Obtain Microbial Nanocellulose with High Degree of Crystallinity L.M. Nubatonis, L. Hartoto, E. Warsiki and K. Syamsu	21
Photoluminescence Studies of Europium Doped Di-Strontium Magnesium Silicate Phosphors R. Shrivastava	31
Structural and Photoluminescence Properties of Pr, Cu Co-Doped ZnO Nanoparticles Synthesized by Chemical Co-Precipitation Method S.V. Ramana, C.V. Krishna Reddy, G.S. Harish, C. Salma and M.R. Rao	41
Enhancement of Intensity of Emission and Photoluminescence Properties of Red Light Emitting $\text{YPO}_4:\text{Eu}^{3+}$ by Infiltration of Li^+ in the Crystal Structure of $\text{YPO}_4:\text{Eu}^{3+}$ D. Pyngrope, A.I. Prasad and R. Pradhan	49
Effect of Capping Agent on the Shape and Catalytic Activity of PtPd Bimetallic Alloy Nanostructures M.D. Johan Ooi, N.M. Yusaini, A. Mahmood, N.A.M. Napihah and Y. Yusof	57
Removal of Congo Red Dye Using Green Kyllinga Weed Extract and Silver Nanoparticles as Catalysts N. Isa, S.H. Khalid, A.N.A. Azizan, N.A. Wahab, M.S. Osman and V. Inderan	63