

Table of Contents

Photoluminescence Properties of Nanophotonic Labels Based on Ag Nanoparticles for Smart Packaging Produced by Screen Printing O. Hrytsenko, D. Hrytsenko, V. Shvalagin and G. Grodziuk	1
Surface Covering of Antimony-Doped Tin Oxide on Titanium Dioxide and Resistivity Analysis R.G. Gong, Y.F. Gao, Z. Chen and K.Q. Zhang	15
Modulation of the Shape of Platinum Nanoparticles by Using Different Oleylamine/Polyvinylpyrrolidone Amounts A. Öztürk and A.B. Yurtcan	31
Structure and Electrochemical Properties of Laser-Modified NiWO₄ Y. Starchuk, O. Popovych, B. Rachiy and I. Budzulyak	51
Recent Progress in Synthesis and Applications of Zinc Phosphate Nanoparticles: A Review T.S. Shathi, M.A. Rahman, H. Ahmad and M.R. Karim	59
A Comprehensive Study of Bending and Stability Responses of 2D-FG Nanobeams Using a Microstructure-Surface Energy-Based Model under Various Boundary Conditions M.A. Attia and R.A. Shanab	89
Fabrication and Catalytic Efficiency of ZnO/PVP Nanocatalysts: A Tremendous Applicant for Methyl Orange Dye Degradation in Aqueous Medium Z.A. Mahar, G.Q. Shar and A. Balouch	121
Thermal Conductivity and Rheological Studies for Graphene-Al₂O₃ / Ethylene Glycol-Water Hybrid Nanofluid at Low Temperatures N. Nayebpashaei and S.M.M. Hadavi	139
Fabrication of Polycaprolactone -Silica Aerogel Nanofibers via Electrospinning Method M. Ceylan and E.B. Yilmaz	161
Influence of the Addition of the Elements Ti and Cr on the Structure, and Mechanical and Tribological Properties of AlSiN Coatings N. Petkov, T. Bakalova, H. Bahchedzhiev, P. Kejzlar, P. Rysanek, M. Kormunda and P. Capkova	175