

Table of Contents

The Crystal Structure Analysis of Silver Nanowires Using Rietveld Method for Optoelectronic Application	
Junaidi, L. Afrilaini, P. Manurung, S. Sembiring, K. Triyana and S. Hadi	1
High-Performance α-Bi₂O₃/CdS Heterojunction Photocatalyst: Innovative Design, Electrochemical Performance and DFT Calculation	
S.T. Lin, L.W. Shan, C.G. Ma, M.Q. Yuan, Z.L. Fang, Y.W. Xiao, L.M. Dong, D. Li and Y.K. Guo	13
Chitosan Polymeric Nanoparticles as a Carrier of <i>Thymbra spicata</i> Hydroalcoholic Extract: Effect on Growth Parameters in Rainbow Trout (<i>Oncorhynchus mykiss</i>)	
K. Ghanbary, F. Firouzbakhsh, E. Arkan and M. Mojarab	29
Double Layer Growth of ZnO Nanorods by a Low Temperature Solution Method: Synthesis and Photoluminescence Properties	
S.V. Kurudirek	45
Cashew Apple Extract: A Novel, Potential Green Reducing Agent for the Synthesis of Reduced Graphene Oxide	
J.S. George, J.K. Paduvilan, P. Velayudhan, N. Kalarikkal, N. Hameed and S. Thomas	57
Perovskite Nanocomposite Layers Engineering for Efficient and Stable Solar Cells	
M.A. Bkkar, R.O. Olekhovich and M.V. Uspenskaya	71
Synthesis and Electrochemical Properties of α and β Modifications of MnO₂ for Supercapacitors Application	
P. Kolkovskiy, B. Rachiy, B. Ostafiychuk, H. Kolkovska, R. Lisovskyy and O. Vyshnevskiy	111
Solvothermal Synthesis, Photocatalytic and Electrochemical Properties of Flower-Like TiO₂ with Hierarchical Structures	
S.H. Tan, G.Q. Yan, Z.J. Luan, D.Y. Yu and J.H. Luo	121
Direct Current Inclined Plane Testing on Silicone Rubber Composites Reinforced with Silica Nano Particles	
I. Ramirez-Vazquez, F.P. Espino-Cortes and C. Gómez-Yáñez	135
Enhancements of Thermal-Electric and Mechanical Properties of Thermoplastic Vulcanizates with Multi-Walled Carbon Nanotubes by Dynamic Vulcanization	
Q. Tang, W. Zhao, L.J. Han, H.R. Wang and C.Z. Zong	151