

Table of Contents

Silicon-Doped Nanostructured Fe₈₀Ni₂₀ Alloys: The Role of Si on the Microstructure, Morphology and Magnetic Properties H. Ourihane, A. Guittoum, M. Hemmou, D. Martínez-Blanco, J.A. Blanco, P. Gorria and N. Boukherroub	1
Synthesis and Investigation of Reduced Graphene Oxide - Sulfur Composite Electrode for Lithium-Sulfur Battery I.U. Haq, A.W. Anwar, Z. Arslan, A. Waheed, U. Ilyas and F. Nasreen	15
Structural Phase Transitions in Al-Rich C-Doped MnAl Thin Films A.E. Hafarov, D.I. Trubchaninova, A.P. Burmak, M.V. Karpets, I.A. Vladymyrskyi, A. Kaidatzis and D. Niarchos	29
Growth of Ni-Co-S Nanoflakes on Ni Bowl-Like Micro/Nano Array as a Non-Enzymatic Electrode for Detection of Glucose X.L. Tang, J.W. Zhao, L.R. Qin and Y.Y. Xu	39
Synthesis of Nitrogen-Doped Carbon Quantum Dots from Walnut Shell Waste as Electron Transport Layer Additive for Perovskite Solar Cells H.Y. Guan, Y.L. Lei, Q. Chen, J. Ding, H.W. Lei, Y.X. Guo, Z.J. Tan and F. Xiang	49
A Comparison Study of Titanium Dioxide and Zinc Oxide Nanoparticles for Cleaning Archaeological Pottery H.M. Mohamed	61
Antibacterial Polysulfone Nanofiber Functionalized with Green Silver Nanoparticles by a Facile Wetting Method for Microbial Corrosion Protection N.O. San Keskin, F. Deniz and H. Nazir	79
Ag Nanostructure Morphologies and Physicochemical Properties Dictated by the Polyols Used in the Synthesis S. Sharif, Z. Ahmad, C. Hoskins, M.A. Choudhary and A. Mehmood	93
Chemical Bath Deposition Grown ZnO Thin Films: Role of Manganese Doping E. Güneri, H. Johnson and F. Göde	107
Synthesis and Antioxidant Investigation of Ag₂S Nanoparticles Obtained from Silver(I) Complex of <i>N</i>-Methyl-<i>N</i>-Phenyl- Dithiocarbamate T.O. Ajiboye and D.C. Onwudiwe	131