

Table of Contents

Vibrational and Structural Properties of Two-Dimensional Tin Mixed-Halide Perovskites S. Hartati, P.Y.D. Maulida, T. Zakly, I. Mulyani, D. Onggo, M.H. Mahyuddin, A. Noviyanto, A. Arramel and N.T. Rochman	1
Anatase/Rutile Phase Control of Titanium Oxide Nanoparticles Synthesized from Potassium Titanium Oxalate by Homogeneous Precipitation and Hydrothermal Methods S. Kajiwarra, K. Itatani, H. Kuwahara, T. Yokoi, T. Sasaki and H. Kuroe	7
Optimization of Hydrothermal Synthesis of Dysprosium Oxide Nanoparticles- Attached-Polyethyleneglycol Template Using Response Surface Methodology- Box-Behnken S. Wyantuti, J. Iskandar, R.P. Fauzia and H.H. Bahti	13
Fabrication of Densely-Packed Janus Gold Nanoparticles Layer by Self-Assembly for a Potential Molecular Sensing Probe M.T. Pambudi, A.A. Iskandar and P. Wulandari	19
Electronic and Optical Properties of Single-Walled Carbon Nanotube Functionalized by CH₃COOH A.A.G. Pido, N.A. Rangaig, A.A.Z. Munio, R.V.B. Janayon and L.C.C. Ambolode II	25
Review of Carbon Nanotube Toxicity and Evaluation of Possible Implications to Occupational and Environmental Health H. Aldosari	35
First-Principles Insights on the Bonding Mechanism and Electronic Structure of SWCNT and Oxygenated-SWCNT Functionalized by Cellulose Biopolymer A.A.Z. Munio, A.A.G. Pido and L.C.C. Ambolode II	51
DFT Study on Na-Ion Conducting Solid Biopolymer Electrolyte-Based on Agar-Agar and NaPF₆ for Sodium-Ion Batteries P. Gupta, A.K. Gupta, S.K. Gupta, S. Gupta, M. Shriwastav and R.K. Yadav	65