

# Table of Contents

**Editor's Note****Luminescence of II-VI Semiconductor Nanoparticles**

B.P. Chandra, V.K. Chandra and P. Jha 1

**Oxide Nanomaterials and their Applications as a Memristor**

S.K. Tripathi, R. Kaur and M. Rani 67

**Nano Electronics: A New Era of Devices**

I. Kaur, S. Yadav, S. Singh, V. Kumar, S. Arora and D. Bhatnagar 99

**Progress in Plasmonic Enhanced Bulk Heterojunction Organic/Polymer Solar Cells**

S.K. Tripathi, S. Sachdeva, K. Sharma and J. Kaur 117

**Carbon Nanotubes as Drug Delivery Vehicles**

S. Arora, V. Kumar, S. Yadav, S. Singh, D. Bhatnagar and I. Kaur 145

**Potential of Nanomaterials as Movers and Packers for Drug Molecules**

I.P. Kaur, M. Singh, M. Yadav, S.K. Sandhu, P.K. Deol and G. Sharma 159

**Photoluminescence in a Novel Aldo-Keto Synthesized  $\text{YPO}_4:\text{Eu}^{3+}$  Nanophosphor**

K.A. Koparkar, N.S. Bajaj and S.K. Omanwar 179

**Recent Advances in the Synthesis and Characterization of Chalcogenide Nanoparticles**

P.K. Bajpai, S. Yadav, A. Tiwari and H.S. Virk 187