

## Table of Contents

### Editor Note

#### **Radiation Induced Effects on Properties of Semiconducting Nanomaterials**

S.K. Tripathi, J. Kaur, R. Ridhi, K. Sharma and R. Kaur 1

#### **Application of Pelletron Accelerator to Study High Total Dose Radiation Effects on Semiconductor Devices**

A.P. Gnana Prakash and N. Pushpa 37

#### **Electron Beam Modified Organic Materials and their Applications**

N. Chaudhary, A. Singh, A.K. Debnath, S. Acharya and D.K. Aswal 72

#### **Structural Investigations of Gamma-Irradiated PbO Glasses**

D. Singh, G.S. Mudahar, K.S. Thind and H.S. Virk 98

#### **Conductivity Modulation in Polymer Electrolytes and their Composites due to Ion-Beam Irradiation**

D. Singh, B. Bhattacharya and H.S. Virk 110

#### **Ion Beam Induced Modifications of Biocompatible Polymer**

A.M. Abdul-Kader and A. Turos 149

#### **Investigation of Surface Modifications of Metals with Low-Pressure Plasma System**

B.A. Soliman, M.M. Abdelrahman and F.W. Abdelsalam 161

#### **SSNTD Technique in Photo-Neutron Applications**

L. Sajo-Bohus, H.R. Vega-Carrillo and H.S. Virk 180

#### **Modgil-Virk Formulation of Single Activation Energy Model of Radiation Damage Annealing in SSNTDs: A Critical Appraisal**

H.S. Virk 215