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Nota di contenuto	Investigation of Microstructural, Optical, and Electronic Properties of Hydrothermally Synthesized MoS <sub>2</sub> Decorated SnO <sub>2</sub> -- Synthesis of Titania Nanoparticles and Assessment of Anti-Oxidant Activity -- Structural and Magnetic Studies of Nanocrystalline La <sub>0.8-x</sub> Ag <sub>0.2</sub> BixMnO <sub>3</sub> (x = 0, 0.05) -- Synthesis of Polymeric Nanoparticles Encapsulating Extract of Datura Stramonium and Study of its Various In-Vitro Activities -- Synthesis, Characterization, and Various In-Vitro Activities of Essential Oil Loaded Polymeric Nanoformulations -- Energy Gap Dependence on the Hydrostatic Pressure and Temperature of GaAs Quantum Wire -- Effect of Annealing Temperature on Microstructural, Optical and Magnetic Properties of Spinel-ZnFe <sub>2</sub> O <sub>4</sub> Nano Particles -- Studies on Zinc Oxide Thin Film and Nanoparticles Synthesized by Chemical Bath Deposition -- Down Conversion Fluorescence Study of Non-Metal co-Doped Carbon Dots -- Green Synthesis of Carbon Dot (CDS) and Sensing of Metal Ion.

## Sommario/riassunto

This volume comprises the select peer-reviewed proceedings of the International Conference on Nanotechnology: Opportunities and Challenges (ICNOC22). It aims to provide a comprehensive and broad-spectrum picture of the state-of-the-art research and development in nanomaterials, nanocomposites, nanobiosensors, nanochemistry, renewable energy, nanochemistry in medicine, batteries and supercapacitors, targeted cellular therapies, among others. This volume will be useful for researchers and professionals working in nanotechnology and allied fields.

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