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Nota di contenuto	Chapter 1. Ion Beam Synthesis of Germanium Nanocrystals - a Fluence Dependence Study -- Chapter 2. Graphene Oxide-Agar Agar Hydrogel for Efficient Removal of Methyl Orange from Water -- Chapter 3. Numerical Analysis of Novel Cs <sub>2</sub> AuBiCl <sub>6</sub> Based Double Perovskite Solar Cells with Graphene Oxide as HTL- a SCAPS-1D Simulation -- Chapter 4. Nanoscopic Pd(II) Based Complexes with Poly-Ether Functionalized Ligand: The Crown Ether Analogue -- Chapter 5. Preparation of Hydrotalcite-CdPS <sub>3</sub> Hybrid Solid from the Exfoliated Inorganic Nanosheets -- Chapter 6. Deposition Time-Dependant Properties of PbS Thin Films -- Chapter 7. Investigation on Surface Trap Characteristics of Water Diffused Al-Epoxy Nanocomposites -- Chapter 8. A Study on Impact of Hydrophobic Effect on Al <sub>2</sub> O <sub>3</sub> Coated Glass by Sol-Gel Dip Coating Method for Automobile Windshield Application -- Chapter 9. Design and Analysis of Chalcogenide GeAsSe Waveguide for Dispersion Properties -- Chapter 10. Detection of Pathological Conditions in Nail Samples Using Laser Induced Breakdown Spectroscopy -- Chapter 11. A Review of m-RNA Vaccines with the Aid of Lipid Nanoparticles -- Chapter 12. Metal-organic frameworks for

antibiotic sensing application -- Chapter 13. Metal Organic Frameworks (MOFs) based membranes for separation applications -- Chapter 14. Control of Dissolved Oxygen in Wastewater Treatment Plant Using NN Adaptive PID Controller. .

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**Sommario/riassunto**

This book comprises select proceedings of the International Conference on Advanced Nanomaterials and Applications (ICANA 2022) and presents recent developments in the fields of nanoscale sciences. The topics covered in this book include energy storage and conversion, bio- and healthcare materials, sensors and actuators, functional materials, optical materials, and computational and simulation methods. This book is useful for researchers and professionals working in the various fields of nanotechnology. .

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