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Nota di contenuto	Properties of Vacuum-Evaporated CH ₃ NH ₃ PbCl ₃ -xI _x Perovskite Layers -- Functional Capabilities of Two-barrier Semiconductor Structures -- Gamma Radiation Sensitization of ZnO/Al ₂ O ₃ Sensors Based on Nanoheterostructures -- Electrical Properties of the (Copper, Dysprosium)-Containing Complex Compound -- Morphological and Sensing Properties of the ZnO - Zn ₂ SnO ₄ Ternary Phase Nanorod Arrays -- Characterization of Films Prepared by Aerosol Spray Deposition in the (MgO) _x (In ₂ O ₃)(1-x) System -- Nanocomposite Films Based on Photosensitive Azopolymer with Gold Nanoparticles: Synthesis, Film Deposition, Diffractive Optical Elements Recording and Characterization -- MOF-coated 3D-printed ZnO Tetrapods as a Two-in-one Sensor for H ₂ Sensing and UV Detection -- A Nanosized Heteronuclear {Fe ¹⁸ Tb ⁶ } Coordination Wheel Based on Pivalate and

Triethanolamine Ligands -- Organic Nanostructured Crystals for Thermoelectric Cooling in Medical Applications -- General Nature of Serration Effect in Crystals and Other Materials Under Indentation -- Trends in Evolution of the Energy Band Structure of Chalcopyrite Cu₃Bi₂S₃ Compounds with Variation of the B and X Compositions -- Optical and Photoelectric Properties of Cadmium Diarsenide and Surface-barrier Structures Based on it -- Preliminary Study on Silver Nanoparticle Synthesis Through Chemical and Biological Methods -- Advanced Nanotechnology-based Approaches to Waste Water Purification from Organic Pollutants.

Sommario/riassunto

This book reports on advances in fundamental and applied research at the interface between nanotechnology and biomedical engineering. Gathering peer-reviewed contributions to the 6th International Conference on Nanotechnologies and Biomedical Engineering, ICNBME held on September 20-23, 2023, in Chisinau, Republic of Moldova, this first volume of the proceedings focuses on nanotechnologies and nano-biomaterials, and their applications in medicine. With a good balance of theory and practice, the book offers a timely snapshot of multidisciplinary research at the interface between physics, chemistry, biomedicine, materials science, and engineering.
