

1. Record Nr.	UNINA9910760257003321
Titolo	6th International Conference on Nanotechnologies and Biomedical Engineering : Proceedings of ICNBME-2023, September 20–23, 2023, Chisinau, Moldova - Volume 1: Nanotechnologies and Nano-biomaterials for Applications in Medicine / / edited by Victor Sontea, Ion Tiginyanu, Serghei Railean
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031427756 3031427750
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (654 pages)
Collana	IFMBE Proceedings, , 1433-9277 ; ; 91
Disciplina	610.28
Soggetti	Nanotechnology Biomaterials Biophysics Nanoscience Nanoengineering Biomedical Materials Nanoscale Biophysics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Properties of Vacuum-Evaporated CH ₃ NH ₃ PbCl _{3-x} I _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 Cu_BIII_XVI₂ 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.
