Record Nr. UNINA9910760272403321 Autore Fesenko Olena Titolo Nanoelectronics, Nanooptics, Nanochemistry and Nanobiotechnology, and Their Applications: Selected Proceedings of the 10th International Conference on Nanotechnologies and Nanomaterials (NANO2022), 25-27 August 2022, Ukraine / / edited by Olena Fesenko, Leonid Yatsenko Cham: .: Springer Nature Switzerland: .: Imprint: Springer, . 2023 Pubbl/distr/stampa **ISBN** 3-031-42708-4 Edizione [1st ed. 2023.] Descrizione fisica 1 online resource (386 pages) Springer Proceedings in Physics, , 1867-4941; ; 297 Collana Altri autori (Persone) YatsenkoLeonid Disciplina 530.41 620.115 620.5 Soggetti Nanoscience Nanotechnology Microtechnology Microelectromechanical systems Lasers **Nanophysics** Microsystems and MEMS Laser Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Part 1: Nanooptics and Photonics -- 1. The Kinetic Theory of the Width Nota di contenuto of Surface Plasmon Resonance Line in Metal Nanoparticles -- 2. Optical and electrical phenomena caused by the lattice defects in PbMoO4 crystal -- 3. Effects of Eu3+ and F- doping on structure and optical properties of zirconium oxides -- 4. Electric and spectral properties of solid water-nanocellulose systems in a wide range of temperatures --5. The medium influence on the luminescence intensity of SnO2 nanoparticles ensembles in a porous silicate glass matrix -- 6.

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## Sommario/riassunto

This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe and beyond. It features contributions presented at the 10th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2022), which was held on August 25-27, 2022 at Lviv House of Scientists, and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings across diverse areas ranging from quantum optics and nanoelectonics to biophysics. The book will be interesting for leading scientists, advanced undergraduate and graduate students in nanoelectronics, optics, bio-and chemical engineering. This book's companion volume also addresses topics such as nanostructured surface, nanomaterials, and its applications.