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Titolo	ZnO Nanocrystals and Allied Materials [[electronic resource] /] / edited by M S Ramachandra Rao, Tatsuo Okada
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Collana	Springer Series in Materials Science, , 0933-033X ; ; 180
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Soggetti	Nanoscale science Nanoscience Nanostructures Materials science Nanotechnology Optical materials Electronic materials Nanoscale Science and Technology Characterization and Evaluation of Materials Optical and Electronic Materials Nanotechnology and Microengineering
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Zinc Oxide: The Versatile Material with an Assortment of Physical Properties -- Laser Nano-Soldering of ZnO Nanowires and GaN Thin Film for Fabrication of Hetero p-n Junction -- Photoluminescence Processes in ZnO Thin Films and Quantum Structures -- Effect of Oxygen Pressure on Photoluminescence Spectra and Hall Coefficients of Li-Ni co-doped ZnO Films Grown by a Pulsed Laser Deposition -- Lasing Characteristics of an Optically-pumped Single ZnO Nanocrystal and Nanomachining for Controlling Oscillation Wavelength -- Deposition of Aluminum-doped ZnO Films by ICP Assisted Sputtering -- Control of ZnO Nanocrystals Synthesized by Nanoparticle-assisted Pulsed Laser Deposition using Buffer Layer and Laser Irradiation --

Influence of Sb as a Catalyst in Synthesis of Sb Doped ZnO Nanostructures using NAPLD (Nano Particle Assisted Pulsed Laser Deposition) for UV LED Applications -- Time- and spatially-resolved Luminescence Spectroscopy of ZnO Nanostructures -- Synthesis of Polycrystalline Silicon Carbide (SiC) Thin Film Using Pulsed Laser Deposition -- Preparation and Characterization of ZnO Nanorods, Nanowalls and Nanochains -- Synthesis and Characterization of ZnO-based Phosphors and Related Phosphor Composites in Bulk, Thin Film and Nano Form -- Zinc Oxide Nanomaterials as Amylase Inhibitors and for Water Pollution Control -- Zinc Oxide – from Optoelectronics to Biomaterial: A Short Review -- On the Optical and Magnetic Properties of Doped ZnO -- Low-temperature Photoluminescence of Sb-doped ZnO Nanowires Synthesized on Sb-coated Si Substrate by Chemical Vapor Deposition Method -- Experimental and Theoretical Investigations of Dopant, Defect and Morphology Control on the Magnetic and Optical Properties of Transition Metal Doped ZnO Nanoparticles.

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#### Sommario/riassunto

ZnO has been the central theme of research in the past decade due to its various applications in band gap engineering, and textile and biomedical industries. In nanostructured form, it offers ample opportunities to realize tunable optical and optoelectronic properties and it was also termed as a potential material to realize room temperature ferromagnetism. This book presents 17 high-quality contributory chapters on ZnO related systems written by experts in this field. These chapters will help researchers to understand and explore the varied physical properties to envisage device applications of ZnO in thin film, heterostructure and nanostructure forms.

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2. Record Nr.	UNICAMPANIAVAN0047832
Autore	Pianu, Giampiero
Titolo	1: Ceramiche etrusche e figure rosse / Giampiero Pianu
Pubbl/distr/stampa	Roma, : Bretschneider, 1980
ISBN	88-85007-34-1
Descrizione fisica	XIV, 167 p., 119 p. di tav. : ill. ; 25 cm.
Lingua di pubblicazione	Italiano
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Livello bibliografico	Monografia