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Descrizione fisica	1 online resource (183 pages)
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Soggetti	Nanotechnology Ceramics Glass Composite materials Waste management Renewable energy resources Ceramics, Glass, Composites, Natural Materials Waste Management/Waste Technology Renewable and Green Energy
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Nota di contenuto	Cnt Sponges for Environmental Applications -- Electrolytic Conversion of Co2 to Carbon Nanostructures -- Tio2/Cnt Nanocomposites for Water Splitting Applications -- Tio2 Nanotubes as Photocatalyst for Biodiesel Production -- Metal Decoration of Tio2 Nanotubes for Photocatalytic and Water Splitting Applications -- Organic-Inorganic Hybrid Perovskites for Solar Cells Applications -- Rare-Earth Doped Forsterite: Anti-Reflection Coating with Upconversion Properties as Solar Capture Solution -- Chitin Adsorbents to Wastewater Treatment -- Application of Ferrite Nanoparticles In Wastewater Treatment -- Synthesis of Potassium Niobate (K ₂ NbO ₅) for Environmental Applications -- Nano Magnetite Based Magnetic Glass-Ceramic Obtained from Wastes.
Sommario/riassunto	This book presents a wide range of synthesis and characterization techniques to produce ceramic nanomaterials specially developed to be

used in environmental applications. The book cover synthesis using hydrothermal, chemical vapor deposition, sol-gel, emulsification, magneto-sputtering, among other process and modern characterization techniques with detail. The use of the synthesized materials in eco-friendly approaches such as photocatalysis, solar energy efficiency improvement, absorbents, sensors, solar cells, biofuels and waste reuse are reported in detail.
