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Sommario/riassunto	This collection emphasizes the advances of powder and ceramic materials in fundamental research, technology development, and industrial applications. Ceramic materials science covers the science and technology of creating objects from inorganic, nonmetallic materials, and includes design, synthesis, and fabrication of ceramics, glasses, advanced concretes, and ceramic-metal composites. Topics covered include but not limited to: • Silicates, oxides, and nonoxide

ceramics and glasses • Synthesis, characterization, modeling, and simulation of ceramic materials • Design and control of ceramic microstructure and properties • Ceramic powders and processing • Fundamental understanding of ceramic materials and processes • Novel methods, techniques, and instruments used to characterize ceramics and glasses. • Bioceramics, electronic, magnetic ceramics, and applications • Surface treatment and ceramic thin films, membranes, and coatings • Porous ceramic materials • Hybrid systems of ceramic, metal, and/or polymer composites • Ceramics used for extreme environments • Metallurgical byproducts for ceramic manufacturing.
