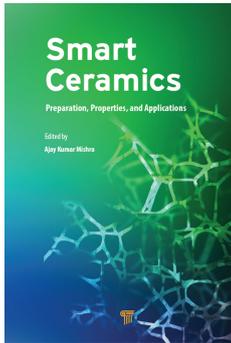


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SMART CERAMICS EBOOKS 2019



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Recent advances in nanotechnology have paved the way for the development of new smart materials. The term "smart ceramics" refers to ceramic materials fabricated from ultrafine particles. They have attracted the attention of researchers and scientists thanks to their potential to manipulate the length scale in the nanorange, leading to better and some unusual material properties. Smart ceramics ensure control of particle size, surface contamination, and degree of agglomeration. They play a crucial role in challenging applications such as bone surgery (e.g., the development of substitutes for load-bearing bone parts) and in biomedical science, especially in tissue engineering, dental applications, and drug and antigen delivery using modified ceramics. Porous nanostructured ceramics have potential use in both simple and complex applications, such as bioimaging, sensors, paints and pigments, optics, and electronics, because of their surface- and size-dependent properties. For the synthesis of smart ceramics, the sol-gel route has been mainly utilized because of its ability to produce a large variety of compositions and to ensure homogeneous mixing of the constituent particles at low temperature.

This book describes the innovations in technologies through the development of functionalized ceramic materials for various applications. It also describes recent and expected challenges, along with their potential solutions, in advanced techniques for the synthesis and characterization of nanostructured ceramics and their composites: bioceramics, bioactive ceramics, multifunctional nanoceramics, transparent ceramics, nanocore shells, nanowires, thin films, nanotubes, and nanorods. The applications include the environment, health care, electrochemical sensors, high-temperature superconductors, nuclear reactor fuels, electrical insulators, refractory materials, electrical transformers, and magnetic core memory. The book will benefit researchers, scientists, engineers, and technologists working in the industry and in national and international research laboratories; academics who are interested in traditional and advanced smart ceramic composites; and students pursuing their postgraduate, graduate, and undergraduate degrees in smart ceramics, nanomaterials, nanoscience, and engineering.

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