

Special Issue

Processing and Characterization of Ceramic Materials Using Microwave Techniques

Message from the Guest Editor

Ceramic materials are ubiquitous in our daily lives. Nonetheless, their applications are steadily increasing owing to their unique physical and chemical properties. Strategic sectors, such as energy, defense, health, communications, and aerospace, are benefiting from these materials, and often push their limits. On the other hand, high-end applications frequently correspond to high production costs, which limit the application of the most advanced ceramic materials in niche markets. Due to their rapid, specific, and selective heating, microwaves promise to reduce production costs. The scientific and technical relevance of microwave-assisted processes is confirmed by the hundreds of publications that have appeared in recent years in the relevant literature. To provide an overview of the state-of-the-art and emerging trends in the processing and characterization of ceramic materials using microwaves, we invite you to contribute to this Special Issue with your most recent research, including results, methodologies, or applications. Thanks to this Special Issue, your work may serve as inspiration to the many experts working in this exciting field!

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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