

## Special Issue

# Advanced Ceramic Materials for Energy Applications I

### Message from the Guest Editor

In the last several years, environmental issues related to energy production and consumption and increasing energy demand have become a central point in governments' concerns. The environmental issues directly related to energy production and consumption include air pollution, climate change, water pollution, thermal pollution, and solid waste disposal. New sustainable technologies supported by advanced materials are a necessity for renewable energy harvesting, storage, and transport. In this view, ceramic materials play an essential role in developing improved or new technologies based on the electrochemical, piezoelectric, or thermoelectric conversion of energy among others, and for insulating applications and emission control. This Special Issue aims to provide selected contributions on advances in the design, synthesis, characterization, and improved properties of advanced ceramic materials for energy-related applications.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2023)



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### Message from the Editor-in-Chief

*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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### Editor-in-Chief

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