

Special Issue

Ceramic Materials for Energy Technologies

Message from the Guest Editors

Modern civilization heavily relies on stable and sustainable energy generation. Development of new ceramic materials is crucial for energy technology to keep up with present challenges. Applications of ceramics in energy technology are wide and varied. These include high-temperature ceramic materials for power generation in gas turbines, ceramics in the nuclear fuel cycle, and materials for concentrated solar power. Another wide application area involves the use of the electrochemical properties of ceramics; this includes solid oxide fuel cells, ceramic ion transport membranes for gas separation and ceramics for electrochemical storage (solid state batteries). Yet, another area of ceramic application in energy technology includes thermoelectric and piezoelectric materials. The Special Issue aims to cover new developments in relation to ceramics for energy technology and create a convenient platform for authors to share their ideas and findings. Authors are welcome to report their original findings in the area, as well as short reviews covering recent advances in the field.

Guest Editors

Dr. Andrey O. Zhigachev

Dr. Pinar Kaya

Dr. Paolo Fedeli

Deadline for manuscript submissions

closed (30 March 2022)



Ceramics

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Impact Factor 2.0
CiteScore 3.7



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Ceramics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ceramics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Ceramics (ISSN 2571-6131), an international, open access journal, provides an advanced forum for ceramics science and engineering. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We are committed to drive *Ceramics* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts. Your contribution should lead to the development of technical ceramics with better performances and to improve our quality of life.

Editor-in-Chief

Prof. Dr. Gilbert Fantozzi

INSA-Lyon, MATEIS Laboratory UMR CNRS 5510, 69621 Villeurbanne,
France

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.6 days after submission; acceptance to publication is undertaken in 3.7 days (median values for papers published in this journal in the first half of 2025).