

Special Issue

Ceramics for Decarbonization of the Global Industry

Message from the Guest Editors

The Special Issue will collect contributions on the widest range of decarbonization technologies in the field of ceramics. Suitable subtopics may be represented by (but not limited to):

- Alternative inorganic binders and geopolymers;
- Ceramics for CO₂ sequestration and storage;
- Cold sintering;
- Reduction in firing temperatures through sintering aids and enhancement of firing efficiency by means of engineered processing;
- Use of hydrogen (ideally green hydrogen) for the firing/sintering in the ceramic industry;
- Ceramics for CO₂ splitting and synthetic renewable fuels production;
- Ceramics for water splitting and hydrogen generation;
- Ceramics for improved combustion efficiency;
- Ceramics for improved thermal insulation;
- Electrochromic and thermochromic ceramics/oxides for improved thermal efficiency (e.g., smart windows);
- Magnetic ceramics for magnetocaloric cooling/refrigeration for energy reduction;
- Ceramics and geopolymers from industrial/agricultural/forestry wastes and byproducts;
- Ceramics and circular economy approaches and etc.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2023)



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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

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Rapid Publication:

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).