



Ceramics for Decarbonization of the Global Industry

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Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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