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Porous Ceramics, Glasses and Composites

Guest Editor:

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Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editor

Dear Colleagues,

Nowadays, porous ceramics are used to fabricate a huge variety of devices such as hot gas or dust collectors, absorbers, thermal insulators, dielectric resonators, engine components for automobile and also biomaterials, drug delivery devices, and bioreactors. In the fabrication of porous ceramic materials, a key factor is represented by the control of pore characteristics (e.g., amount, geometry, interconnectivity, etc.) that can be tailored by properly setting the parameters in several processing methods. An important role is also played by raw material features, type of binder used, and sintering parameters, which can all impact the final porosity in terms of pore size and distribution.

This Special Issue will provide contributing papers, both research articles and comprehensive reviews, are solicited in all the relevant areas for porous ceramics, including:

- Thermal and acoustic insulation
- Construction
- Filtration
- Catalysis
- Biomedical applications
- Porous materials for the circular economy
- Diffusion processes in porous media
- Ceramic and glass foams
- Analysis of porous materials

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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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