Special Issue

Ceramic Additive Manufacturing

Message from the Guest Editor

Ceramic additive manufacturing (AM) has emerged as a transformative technology, offering unparalleled opportunities for design freedom, material customization, and functional complexity. This Special Issue aims to explore the latest developments, challenges, and applications in ceramic AM, focusing on bridging the gap between innovation and industry adoption. This Special Issue invites contributions covering a wide range of topics, including, but not limited to, the following:

- Novel ceramic materials for AM, including oxides, nitrides, carbides, and composites, with tailored properties for specific applications.
- Advanced ceramic AM processes, such as binder jetting, powder bed fusion, stereolithography, and material extrusion, highlighting process optimization, scalability, and repeatability.
- Innovative design strategies and software tools.
- Post-processing techniques for improving components.
- Advanced characterization methodologies and applications in different sectors.
- Environmental and sustainability considerations in ceramic AM, including material recycling, waste reduction, and energy efficiency.

Guest Editor

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Message from the Editorial Board

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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