Special Issue

Processing and Properties of Advanced Ceramic Materials for Sustainable Development

Message from the Guest Editor

This Special Issue aims to collect the latest findings of the scientific community on the development of ceramic materials and their combination, with a view to sustainability and circularity. I believe that a joint effort is needed to highlight the real contributions that materials science can make to sustainable development. Current production processes cannot ignore the effective and efficient use of raw materials. There is a strong need to develop materials and processes that can overcome the use of critical raw materials and contribute to reducing the uncontrolled consumption of resources. The aim of this issue is therefore to disseminate the latest knowledge in terms of the manufacture of advanced ceramics for use in today's high-tech sectors, and of production processes aimed at saving energy and extending the life cycle of products. Established research expertise can be revised or rethought with a view to sustainability. Particular attention must be paid to the importance of raw materials, their exploitation and reintegration into production processes.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/136996

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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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