Special Issue

Additive Processing of High-Temperature Alloys

Message from the Guest Editor

The transformative potential of additive manufacturing (AM) in reshaping traditional production paradigms is widely recognized, particularly in the fabrication of intricately designed components using materials that have traditionally posed machining challenges, such as superalloys. The substantial investments of time and research efforts have yielded continuous developments across the spectrum of AM, fostering growing optimism regarding the widespread adoption of AM techniques for the manufacturing, repair, and overhaul of superalloy components. This call to attention underscores the need to showcase these remarkable advancements, giving rise to the proposal for a Special Issue in Materials, dedicated to highlighting cutting-edge developments in the AM of high-temperature materials. I eagerly anticipate your valuable contributions to this Special Issue, which aims to be a pivotal resource in disseminating the latest advancements and fostering collaborative efforts to propel the AM of high-temperature materials to new heights.

Guest Editor

Prof. Dr. Joel Andersson
Department of Engineering Science, University West, Trollhättan, Sweden

Deadline for manuscript submissions

closed (20 July 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/195555

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)