

Special Issue

Design, Characterization and Novel Applications of Shape Memory Alloys

Message from the Guest Editors

Shape memory alloys (SMAs) have the ability to change their shape, properties and structure as a function of the applied temperature, stress or magnetic field. In this Special Issue of *Materials*, the attention is focused on the latest developments of this kind of material, on novel synthesis and processing methods and on potential applications in many fields (automotive, aerospace, biomedical, advanced engineering and so on). Contributions related (but not limited) to the following topics are strongly encouraged: SMA synthesis; SMA novel processing technologies; SMA new developments and applications; SMA-based sensors, actuators or both; SMA experimental characterization; SMA thermo-mechanical simulation; SMA actuators control; SMA micro actuators; SMA hybrid actuators. Contributions from academic and applied researchers are encouraged in this Special Issue. Full Papers, communications and reviews are all welcome.

Guest Editors

Dr. Girolamo Costanza

Department of Industrial Engineering, University of Rome Tor Vergata, Via del Politecnico, 1 00133 Rome, Italy

Dr. Maria Elisa Tata

Department of Civil Engineering and Computer Science, University of Rome Tor Vergata, Via del Politecnico, 1 00133 Rome, Italy

Deadline for manuscript submissions

closed (20 October 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/42065

Materials

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

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



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