



Shape Memory Alloys (SMAs) for Engineering Applications

Guest Editors:

Prof. Dr. Masoud Motavalli

Structural Engineering
Laboratory, Empa Swiss Federal
Laboratories for Materials
Science and Technology,
Überlandstrasse 129, 8600
Dübendorf, Switzerland
Masoud.Motavalli@empa.ch

Dr. Christoph Czaderski

Structural Engineering
Laboratory, Empa Swiss Federal
Laboratories for Materials
Science and Technology,
Überlandstrasse 129, 8600
Dübendorf, Switzerland
Christoph.Czaderski@empa.ch

Prof. Dr. Moslem Shahverdi

Structural Engineering
Laboratory, Empa Swiss Federal
Laboratories for Materials
Science and Technology,
Überlandstrasse 129, 8600
Dübendorf, Switzerland
Moslem.Shahverdi@empa.ch

Deadline for manuscript
submissions:

30 April 2020



mdpi.com/si/14138

Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Materials* is dedicated to “Shape Memory Alloys (SMAs) for Engineering Applications”. We are expecting to receive papers dealing with cutting-edge issues on research and application of SMAs in structural engineering. The topics of the Special Issue include, but are not limited to:

- Alloy designing of SMAs including: Nickel-titanium, Copper, Iron, Aluminum;
- Applications of SMAs for structural engineering using Damping capacity or Superelasticity;
- Applications in structural engineering for tensioning applications;
- Actuator applications of SMAs in structural engineering;
- Active vibration control in structural engineering using SMAs;
- Hybrid composites of shape memory alloys and polymers;
- SMAs as sensors for health monitoring of structural engineering;
- Modeling of the SMAs applications.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

James McGill Professor,
Professor of Biomedical
Engineering, Professor of
Bioengineering, Professor of
Experimental Surgery,
Department of Biomedical
Engineering, Faculty of
Medicine/Faculty of Dentistry,
Duff Medical Science Building,
3775 University Street, Montreal,
QC, H3A 2B4, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers fourteen comprehensive topics: Biomaterials; Energy Materials; Composites; Structure Analysis; Porous Materials; Manufacturing Processes; Advanced Nanomaterials; Smart Materials; Thin Films; Catalytic Materials; Carbon Materials; Materials Chemistry; Materials Physics; Optics and Photonics; Corrosion; Building Materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles.

Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Author Benefits

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

High Visibility: indexed by the Science Citation Index Expanded (Web of Science), *Ei Compendex* and other databases. Citations available in PubMed, full-text archived in PubMed Central.

CiteScore (2018 Scopus data): **3.26**, which equals rank 97/439 (Q1) in 'General Materials Science'.

Contact Us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
@Materials_Mdpi