







an Open Access Journal by MDPI

# Advanced Strain and Deformation Sensing Materials and Applications

Guest Editors:

## Dr. Senentxu Lanceros-Mendez

BCMaterials, Basque Center for Materials, Applications and Nanostructures, UPV/EHU Science Park, 48940 Leioa, Spain

#### Dr. Pedro Costa

Center of Physics, University of Minho, 4710-057 Braga, Portugal

## Prof. Dr. Vítor Manuel Gomes Correia

Centro Algoritmi , Universidade do Minho, Campus Azurém, 4800-058 Guimarães, Portugal and Centro de Física, Universidade do Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Deadline for manuscript submissions:

closed (31 May 2021)

# **Message from the Guest Editors**

Strain and deformation sensors are among the most used in a large variety of devices and applications, ranging from aerospace application to biomedicine. In this scope, novel materials and processing technologies are developed, allowing the implementation of those sensors in a large variety of novel devices and applications. Thus, nanoscale control of materials and microfabrication techniques are improving precision and integration, whereas printing technologies and novel polymer-based composites allow implementation of flexible and even stretchable sensing solutions. Further, advances strain and deformation sensing materials are at the basis of a wide variety of novel applications in the areas of structural health monitoring and in the biomedical field, among others, as well as to the development of novel concepts of multifunctional and interactive surfaces

It is our pleasure to invite you to submit original research papers, short communications or state-of-the-art reviews within the scope of this Special Issue.

# Keywords

- smart materials
- electronic skin
- strain sensing
- multifunctional materials
- smart surfaces



Specialsue









an Open Access Journal by MDPI

## **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

# **Message from the Editor-in-Chief**

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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.

## **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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

#### **Contact Us**