Special Issue

Nano-Engineering of Functional Oxides: Synthesis, Functional Properties and Applications

Message from the Guest Editors

The Special Issue, “Nano-Engineering of Functional Oxides: Synthesis, Functional Properties and Applications”, will address developments in the smart design and advanced characterization of functional nanoscale oxide materials and devices for nano-electronics, data storage, energy conversion/storage, sensors, transducers and actuators, among other applications. Oxide nanostructures have been demonstrated to be useful functional components for a variety of nanoscale devices. This Special Issue at the interface between nanocharacterization and top-down and bottom-up nanofabrication techniques will address a variety of skills, ranging from the synthesis of 1D, 2D and 3D functional oxides nanostructures to the design of sensors and harvesting energy devices, through advanced structural and physical characterizations at the nanoscale. Thus, articles and reviews dealing with chemical and physical thin film deposition, inorganic chemistry, magnetism, piezoelectrics, ferroelectrics and multiferroics are welcome.

Guest Editors

Dr. Adrien Carretero-Genevrier

IES (Institut d'Electronique et des Systèmes), CNRS UMR 5214 / Université Montpellier, 860 rue de Saint Priest, Bâtiment 5, 34097 Montpellier, France

Dr. César Magén

1. Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Universidad de Zaragoza, 50009 Zaragoza, Spain
2. Laboratorio de Microscopías Avanzadas (LMA), Universidad de Zaragoza, 50018 Zaragoza, Spain

Deadline for manuscript submissions

closed (10 May 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/50622

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

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)

MDPI