materials

IMPACT FACTOR 3.1

Indexed in: PubMed

CITESCORE 5.8

an Open Access Journal by MDPI

Advanced Piezoelectric Materials: Science and Technology

Guest Editors:

Dr. Jie Jiao
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai 201800, China

Prof. Dr. Jianwei Chen
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai 201800, China

Deadline for manuscript submissions:
closed (10 May 2022)

Message from the Guest Editors

The last two decades have seen an intensive improvement of piezoelectric materials, both in fundamental research and in devices for applications. The researches on the catalysis and energy storage based on piezoelectric materials and flexible piezoelectric devices are in the ascendant. In the application field, piezoelectric ceramics, single crystals and thin films are widely used in a variety of ultrasonic transducers, actuators, sensors, filters, random access memory, field effect transistors and energy harvesters. These devices are applied in aerospace, consumer electronics, medical and other industries.

This Special Issue will compile recent developments in the field of advanced piezoelectric materials. The articles presented in this Special Issue will cover various topics, ranging from but not limited to the electrical, optical and other functional properties of piezoelectric ceramics, single crystals or thin films, tailoring of phase structure, morphology, domain structure or lattice structure, devices oriented piezoelectric composites, piezoelectric catalysis, various of piezoelectric devices, such as ultrasonic transducers, actuators, sensors and energy harvesters.

materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

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 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.

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*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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