



materials



an Open Access Journal by MDPI

Advances in Materials and Designs for Power Supply Systems in Soft Electronics

Guest Editors:

Dr. Jie Zhao

Department of Materials Science,
Fudan University, Shanghai
200433, China

Prof. Dr. Yun Song

Department of Materials Science,
Fudan University, Shanghai
200433, China

Deadline for manuscript
submissions:

closed (10 April 2022)

Message from the Guest Editors

Recent advances in materials chemistry and composite materials design establish the foundations for classes of electronics with physical form factors that bridge the gap between soft biological organisms and rigid microsystems technologies. Soft platforms of this type have broad utility in continuous clinical-grade monitoring of physiological status, potentially lowering the cost and increasing the efficacy of modern healthcare. In this context, the development of materials and device designs for power supply systems is critically important and represents a rapidly expanding focus point of research in the materials sciences. Reformulating conventional technologies into biocompatible platforms and co-integrating them into bioelectronic systems demand innovative materials chemistry and engineering approaches. This Special Issue will highlight the range of material choices and associated device architectures for power supply systems in soft electronics, including batteries and supercapacitors for storage and photovoltaic, piezoelectric, triboelectric, and thermoelectric devices for harvesting.



mdpi.com/si/89281

Special Issue



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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (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](https://twitter.com/Materials_Mdpi)