Special Issue

Research on Materials and Properties of Organic Thin Film Transistors

Message from the Guest Editor

Organic thin film transistors are essential for the proliferation of inexpensive, flexible, and stretchable electronics and sensors that will fuel the Internet of Things. However, in some cases, the current state of the art material leads to devices that cannot be translated to real-world products. Improvement in the device performance (not just charge mobility) is critical. New materials and new device structures as well as a better evaluation of current materials is necessary. Better comparisons between families of materials, stability studies, and more thorough evaluation of device performance such as contact resistance as a function of processing conditions and film morphology is absent from the literature. Circuit design and prototype development is therefore limited to only a few materials that are comprehensively analyzed. I invite you to submit original work focused on the development of organic semiconductors, dielectrics/electrolytes, electrodes, and interfaces in the OTFT. In addition to new materials, I invite you to report on the study of processing conditions and treatment of existing materials used in OTFTs.

Guest Editor

Prof. Benoit Hugo Lessard
Department of Chemical and Biological Engineering, University of Ottawa, 161 Louis Pasteur, Ottawa, ON K1N 6N5, Canada

Deadline for manuscript submissions

closed (10 June 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/33033

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)