Special Issue

Advanced Materials for Biophotonics Applications

Message from the Guest Editors

Biophotonics is a science about how light reacts with biological objects such as tissues, cells, and organisms. Recently, new materials have been playing a big role in the discovery of new aspects of biophotonics. It can be observed that progress in material science has a strong impact on the recent progress in biophotonics. Thanks to the application of new materials, new biosensors, imaging systems, and measurement assays can be delivered. Another group of materials used in biophotonics research is bio-mimicking materials, which are still growing and give us better phantoms of tissues each time. Furthermore, it has recently become possible to make a group of materials which were inspired by biology. Thanks to these materials, we have bio-inspired photonics with new optical devices and solutions. The connection between biophotonics and materials is strong, and we can observe that both biophotonics and materials have inspired each other, which can lead only to new solutions, bringing science and people a better understanding of nature.

Guest Editors

Prof. Dr. Valery V. Tuchin

1. Institute of Physics and Science Medical Center, Saratov State University, Saratov, Russia
2. Laboratory of Laser Molecular Imaging and Machine Learning, Tomsk State University, Tomsk, Russia
3. A.N. Bach Institute of Biochemistry, FRC "Fundamentals of Biotechnology", Moscow, Russia

Prof. Dr. Malgorzata Szczerska

Department of Metrology and Optoelectronics, Faculty of Electronics, Telecommunications and Informatics, Gdańsk University of Technology, Gdańsk, Poland

Deadline for manuscript submissions

closed (20 July 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/27762

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