

Special Issue

Drug Releasing Textile: From Fundamental to Application

Message from the Guest Editors

Textile materials as carriers of biologically active substances have been used since ancient times as they are close to the skin and can be comfortably applied. Today, interest in creating new textile constructions is growing due to their possible implementation in medicine, healthcare and cosmetics. These materials can be used for wound dressing, microbial control, skincare and transdermal drug delivery. They can create several benefits, improving the desired ability to choose between possible options, which corresponds to the biologically active substance, the type of health problem, the condition as the chronic disease or well-being, the required concentration and duration of treatment, and textile choice.

This Special Issue aims to present fundamental aspects and new opportunities for drug-releasing textiles, considering various methods for fabrication from fibers to fabric construction, responsive coating creation and the development of advanced drug loading methods. The diverse possibilities for the application of these materials demands more in-depth studies of their characteristics, drug-releasing mechanisms and kinetics.

Guest Editors

Dr. Desislava Staneva

Head of Department of Textile, Leather and Fuels, University of Chemical Technology and Metallurgy, 1756 Sofia, Bulgaria

Prof. Dr. Ivo Grabchev

Faculty of Medicine, Sofia University "St. Kliment Ohridski", 1407 Sofia, Bulgaria

Deadline for manuscript submissions

closed (20 March 2024)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/183285

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

[mdpi.com/journal/
materials](https://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](https://mdpi.com/journal/materials)



About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)