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Drug Releasing Textile: From Fundamental to Application

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Deadline for manuscript
submissions:

closed (20 March 2024)

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.



mdpi.com/si/183285

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

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