



polymers



an Open Access Journal by MDPI

Polymeric Carrier Systems Enabling Transdermal Drug Delivery

Guest Editors:

Dr. Christian Wiraja

School of Physical and
Mathematical Sciences, Nanyang
Technological University,
Singapore 639798, Singapore

Dr. Chenjie Xu

Department of Biomedical
Engineering, City University of
Hong Kong, 83 Tat Chee Avenue,
Kowloon, Hong Kong, China

Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editors

In recent years, transdermal drug delivery (TDD) has been highly sought after to enable both localized and systemic therapy. Bypassing the gastro-intestinal and hepatic first-pass metabolism, TDD promises significant drug bioavailability with reduced risks of immune rejection. Moreover, TDD is non/minimally invasive, ensuring great patient compliance alongside the possibility of self-application. To this end, polymeric carrier systems (e.g., nanocarriers and microneedles) are widely explored to facilitate safe, efficacious, and well-controlled TDD. Facile preparation, flexibility in cargo moieties, tuneable release profile, and great biocompatibility are some advantages of polymer-based TDD carriers.

In this Special Issue, current efforts to develop and employ such polymeric TDD carriers are highlighted. The scope of this Special Issue will include techniques utilized to fabricate polymeric TDD carriers, methods to characterize and optimize drug loading and release profile (i.e., sustained-release, stimuli-responsiveness) as well as disease-specific adaptations for localized skin pathology and systemic diseases (e.g., diabetes mellitus).



mdpi.com/si/49164

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Polymer Science*) / CiteScore - Q1 (*Polymers and Plastics*)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](https://twitter.com/Polymers_MDPI)