Special Issue

Recent Advances in Polymer-Based Drug Delivery Systems

Message from the Guest Editors

Novel delivery platforms based on natural and synthetic polymers have shown great therapeutic potential for the treatment of different kinds of diseases. Polymers can realize the efficient delivery and controlled release of cargo through physical adsorption, chemical conjunction, and/or internal loading. Notably, polymers with biodegradability, biocompatibility, and physicochemical stability are considered to be ideal delivery carriers. For example, the surface coating of a polymer with polyethylene glycol (PEG) improves water solubility and blood circulation; the conjugation of a polymer with specific markers/antibodies helps control drug distribution/targeting delivery in cancer specifically; some polymeric nanoparticles can cross the blood–brain barrier or improve drug resistance, etc. Polymer drug carriers should be nontoxic and non-immunogenic, which provides a safe framework to deliver therapeutic drugs without harm to the body. Biodegradable and bio-absorbable polymers are a promising choice for delivery systems. This Special Issue is focused on the latest development of novel delivery platforms based on natural and synthetic polymers.

Guest Editors

Dr. Ling Ding

Clinical Pharmacology Laboratory, Department of Pharmacy Practice and Science, University of Nebraska Medical Center, Omaha, NE 68198, USA

Dr. Huizhen Jia

School of Materials Science and Engineering, Tianjin Key Laboratory of Composite and Functional Materials, Tianjin University, Tianjin, China

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

mdpi.com/journal/polymers

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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 4.7.

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.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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