

Special Issue

Advanced Materials and Technologies in Ophthalmology

Message from the Guest Editors

Approximately 285 million individuals worldwide suffer from visual impairment and 39 million from blindness, as reported by WHO in 2010. The development of natural and synthetic biomaterials for ophthalmic applications has attracted increasing attention. Recently, advanced materials and technologies, e.g., hydrogels, advanced biodegradable polymers, nano-technology, and additive manufacturing technology, have been adapted to tissue engineering to mimic the physico-chemical properties of ocular tissues, deliver and control the release of bioactive molecules, control the cellular micro-environment, and build three-dimensional (3D) structures with various microenvironments and cell types.

This Special Issue will host papers related to the latest findings and trends in the field of ophthalmological biomaterials. Topics may include, but are not limited to, the following: advanced materials and technologies (such as hydrogels, biodegradable polymer, nano-technology, corneal tissue engineering, 3D bioprinting) in the fields of contact lens, artificial cornea, intraocular lens, artificial retina, and bionic eyes, etc. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Li Ren

School of Materials Science and Engineering, South China University of Technology, Wushan Road 381, Guangzhou 510640, China

Prof. Dr. Weiyun Shi

Eye Institute of Shandong First Medical University, Yanerdao Road 5, Qingdao 266071, China

Deadline for manuscript submissions

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Journal of Functional Biomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials (JFB)* is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

School of Engineering and Materials Science, Queen Mary University of London, London, UK

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