

Special Issue

Toolbox Development for Cellular Endomembrane Studies in the Living System: Fluorescence Probes and Advanced Imaging Strategies

Message from the Guest Editors

Emerging advanced optical microscopy techniques have become indispensable tools for insights into the cellular endomembrane, which are capable of visualizing structures down to the subcellular level. Fluorescent probes possessing excellent optical properties play great roles in different microscopies, which largely promote the advancement of optical microscopy techniques. This Special Issue aims to investigate new optical probes and imaging techniques that can advance the field of optical diffraction-limited and sub-diffraction microscopy and its biological applications. Topics including, but not limited to:

- Novel fluorescent probes or optical materials or fluorescent proteins for optical diffraction-limited and sub-diffraction microscopy;
- Design and preparation for quantum dots, carbon dots, polymer dots, upconversion nanomaterials, and other nanostructured materials fulfilling the criteria for a probe for optical microscopy;
- Biological label strategy for fluorescent/optical probes;
- Optical imaging techniques of biological membrane structures.

Guest Editors

Prof. Dr. Zhigang Yang

Dr. Xusan Yang

Dr. Hao Xie

Dr. Chenshuo Ma

Deadline for manuscript submissions

closed (28 February 2022)



Membranes

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed



mdpi.com/si/57132

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

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





Membranes

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC
3010, Australia

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Polymer Science) / CiteScore - Q1 (Chemical Engineering (miscellaneous))