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Fabrication and Applications of Polymer Optical Fibers

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

Polymer optical fibers (POFs) are of great interest due to their wide range of applications. POFs are advantageous for short-distance networks due to their high flexibility and low-cost installation. POFs are much easier to handle and have a greater resilience to bending as compared with silica optical fibers. POFs play an important role in applications in human-involving environments such as the home, office, automobile, and production lines. POFs are also very often employed as a part of a fiber optics sensory system for radiation detection, structure health monitoring, chemical and biomedical sensing. Additionally, POFs have been widely employed for lighting and illumination due to their inexpensive cost, light weight, visible transmission window, and high adaptability. Even when using doped fibers, fabrication technology is more straightforward and less expensive. Innovations regarding the production of POFs, including novel polymers, dopants and fiber structures, and their applications are the main topics of this Special Issue. On this topic, full papers, communications, and review papers—both theoretical and experimental—are welcome.

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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.

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