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Twisted Light in Optical Fibers

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Message from the Guest Editor

Dear Colleagues,

In this Special Issue, we would like to concentrate on the applications of the angular momentum of light in fiber optics. In particular, development of high-capacity optical technologies is the main challenge for the optical communications community. In the case of mode-division-multiplexing, one of an orthogonal modal basis set is orbital angular momentum. It is also worth noting the important applications of vortices in nonlinear fiber optics, where vortex modes can be used to realize frequency conversion, for example. In addition, it is of interest both from a practical and fundamental point of view to investigate the behavior of vortex modes carrying angular momentum in various types of specialty optical fibers. Topics of interest for publication include but are not limited to:

- Fiber propagation of optical vortices
- Angular momentum of light in fibers
- Specialty optical fibers for generating vortex beams
- Orbital momentum of light in fibers
- Nonlinear optical properties of vortex modes in fibers
- Angular momentum of light and high-capacity optical information technologies

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Guest Editor



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Special Issue