

Accepted Manuscript

Generation of phase singular optical beams in microstructure optical fibers

Rakhi Bhattacharya

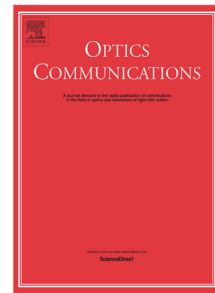
PII: S0030-4018(18)30605-9
DOI: <https://doi.org/10.1016/j.optcom.2018.07.013>
Reference: OPTICS 23286

To appear in: *Optics Communications*

Received date : 22 February 2018
Revised date : 3 July 2018
Accepted date : 4 July 2018

Please cite this article as: R. Bhattacharya, Generation of phase singular optical beams in microstructure optical fibers, *Optics Communications* (2018), <https://doi.org/10.1016/j.optcom.2018.07.013>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



- Generation and propagation of optical vortex in microstructure optical fiber (MOF).
- Chalcogenide As_2S_3 five ring hexagonal lattice MOF is numerically simulated.
- Effective index, V-parameter, dispersion and loss is calculated for MOF.
- MOF achieves a dispersion $< 40\text{nm/ps/km}$ over 650nm bandwidth and loss $< 0.029\text{dB/km}$.
- Applications: optimized tweezers, high-resolution imaging and sensing.

Download English Version:

<https://daneshyari.com/en/article/7924536>

Download Persian Version:

<https://daneshyari.com/article/7924536>

[Daneshyari.com](https://daneshyari.com)