



Journal of Optics A: Pure and Applied Optics

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CALL FOR PAPERS

Topical Issue on the Fundamental Aspects of Nanophotonics

Guest Editors

Mark Stockman, Georgia State University, USA

Anatoly Zayats, Queen's University of Belfast, UK

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The broad goals of the new discipline of nanophotonics are to develop concepts of optical functionality on the smallest possible spatial scale, at the lowest possible energy level, and on the shortest possible timescale by employing light interactions with nanostructures.

A topical issue of *Journal of Optics A: Pure and Applied Optics* will be devoted to papers reporting new and challenging results in this burgeoning field.

Focused topical reviews within the special issue remit will also be considered, but potential contributors of such reviews should first contact the Guest Editors. Papers in other areas will also be considered for the issue as long as they offer ideas relevant for the field of nanophotonics.

The special issue topics will include, but are not limited to:

- Plasmonic nanophotonics
- Nano-transmission lines and nano-antennas
- Light in confined geometries and nano-cavities
- Single molecule and single nanoparticle photonics
- Quantum and coherent effects in nanophotonics
- Nonlinear and ultrafast nanophotonics
- Interaction of electron beams with nanophotonic structures
- Nano-bio-photonics
- Nanoscale imaging and photolithography
- Optical atom trapping and manipulation in nanostructures

All papers will be peer reviewed, and the normal refereeing standards of *Journal of Optics A: Pure and Applied Optics* will be maintained. There are no page charges.

Advice on preparing your work for publication in the journal, including advice on figures, tables and references, is available from our Website at www.iop.org/journals/authors/jopa.

About Journal of Optics A

Journal of Optics A: Pure and Applied Optics publishes articles on all aspects of classical optical phenomena including propagation, diffraction and scattering; nonlinear optics and materials; instruments and components; information optics; and optics within the life sciences. *Journal of Optics A: Pure and Applied Optics* is an official journal of the European Optical Society.

How to submit your paper

Manuscripts should be submitted by **1 September 2005**, although authors are strongly encouraged to submit their work as soon as possible.

Please include a covering letter stating that the submission is intended for the nanophotonics topical issue, to avoid treatment as a regular submission.

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Image: Intensity plots showing the $l = 1$ mode in a weakly guiding anisotropic twisted fibre with a pitch of -0.01m
C N Alexeyev, A V Volyar and M A Yavorsky 2004 *Journal of Optics A: Pure and Applied Optics* 6 S162-S165.