



Journal Menu

- Abstracting and Indexing
- Aims and Scope
- Article Processing Charges
- Articles in Press
- Author Guidelines
- Bibliographic Information
- Contact Information
- Editorial Board
- Editorial Workflow
- Reviewers Acknowledgment
- Subscription Information

- Open Special Issues
- Published Special Issues
- Special Issue Guidelines

Call for Proposals for Special Issues

Journal of Sensors
Volume 2009 (2009), Article ID 871580, 17 pages
doi:10.1155/2009/871580

Review Article

Properties of Specialist Fibres and Bragg Gratings for Optical Fiber Sensors

John Canning

Interdisciplinary Photonics Laboratories, School of Chemistry, University of Sydney, Sydney, NSW 2006, Australia

Received 4 March 2009; Accepted 9 June 2009

Academic Editor: Christos Riziotis

- Abstract
- Full-Text PDF
- Full-Text HTML
- Linked References
- How to Cite this Article
- Complete Special Issue

Abstract

The advent of optical fibres based on air holes running along their entirety opens up new directions in addressing various properties relevant to sensing, including the temperature/strain challenge of optical fibre sensors. This paper looks at the measurement challenges associated with temperature and strain, examines the potentially unique functionality structured fibre designs with and without gratings open up, and briefly describes some current research directions within conventional fibre and grating technologies.