**PHOTONICS AND NANOSTRUCTURES - FUNDAMENTALS AND APPLICATIONS**

**AUTHOR INFORMATION PACK**

**TABLE OF CONTENTS**

- Description p.1
- Audience p.2
- Impact Factor p.2
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

**DESCRIPTION**

*Including metamaterials*

This journal establishes a dedicated channel for physicists, material scientists, chemists, engineers and computer scientists who are interested in **photons and nanostructures**, and especially in research related to **photonic crystals, photonic band gaps** and **metamaterials**. The Journal sheds light on the latest developments in this growing field of science that will see the emergence of faster telecommunications and ultimately computers that use light instead of electrons to connect components.

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- Metallic and metallo-dielectric photonic structures
- Structures for Terahertz optics
- Plasmonics
- Metamaterials and left-handed metamaterials
- Chiral and bianisotropic media
- Periodic electromagnetic structures
- Frequency selective surfaces
- High-impedance surfaces
- Metamaterials for antenna and circuit technology
- Metamaterial-based devices
- Acoustic and elastic metamaterials
- Photonic crystal fibers and "holey" fibers
• Micro- and nanophotonic devices such as optical waveguides, switches, lasers, and other components of optical integrated circuits
• Integration of photonic crystals
• Micro-optical-electro-mechanical-systems (MOEMS)
• Optical microcavities and photonic "dots"
• Novel approaches to micro- and nanophotonics
• Critical assessment of new application fields (light sources, lasers, biophotonics, detectors, optical components, atom and molecule confinement).

AUDIENCE

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