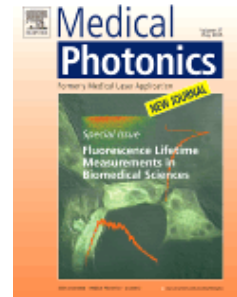




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ISSN: 2213-8846

DESCRIPTION

Optical technologies have become a central part in today's **clinical medicine**, both in diagnostics and therapy. Medical research as well as clinical routine heavily depends on technical instrumentation. A wide variety of **photonic technologies** have been developed for **clinical monitoring** of physiological or pathological parameters. Advanced optical techniques using:

Spectroscopic techniques **Fluorescence** **fluorescence lifetime measurements** **Raman spectroscopy** **OCT** all techniques are used for establishing a **medical diagnosis** and therapy monitoring.

Moreover, a broad range of therapeutic approaches has been developed (**photodynamic therapy, laser dissection, theranostics**), ranging from molecular, single cell based approaches to macroscopic surgical strategies.

All of these techniques have gained by the advances in molecular biology and genetics, allowing specific targeting or marking of all kinds of molecules or tissues, from sensing and microscopy over **optogenetics** to clinical therapy.

There is a clear demand for a strong journal that covers these emerging technologies as well as biomedical research based on new **photonic technologies**. **Medical Photonics** aims at filling this gap.

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GUIDE FOR AUTHORS

INTRODUCTION

Aims and scope

Medical Photonics publishes recent advances in biomedical and clinical research based on modern optical technology. Areas covered range from basic research and fundamental biooptical studies to clinical and surgical applications of optical techniques.

Reports on biooptical studies are as welcome as reports on new concepts in instrumentation and technology in the field of photonics. With the enormous progress achieved in the past years in the field of laser biophysics, engineering and biomedical optics, *Medical Photonics* aims at serving the optical and medical community with up-to-date information, comprehensive reports on high-impact research projects and the latest developments in the field. Papers will be subjected to a fast review process, and authors will be assisted by the professional Elsevier team.

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- **Biosensors** (noninvasive monitoring of physiologic parameters, biosensors for detecting ions and biologic molecules, ultrasensitive detection, biospectroscopy, optical diagnostics, fiber optic sensors),
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