Special Issue

Bragg Grating Arrays for Sensing Applications

Message from the Guest Editor

Bragg grating based optical sensors have attracted much interest, since they show enormous potential for applications in various fields. Thus, enormous effort has been put into the research and development of Bragg gratings. Especially, the fact that these sensors can be arranged as an array offers the opportunity to build multipoint sensor systems with high spacial resolution and sensitivity. The Special Issue on “Bragg Grating Arrays for Sensing Applications” addresses all research topics in the field, covering fiber gratings, planar gratings; polymer waveguide or silica glass-based structures; and the fabrication of arrays by phase mask, interferometric concepts, or direct writing setups. Draw tower fiber Bragg gratings are significant devices in this context too. Modern sensor systems always rely onthe suitable detection and signal processing of sensor signals. Multiplexed sensors require special read-out technologies and system concepts like wavelength division multiplexing, optical time, or frequency domain multiplexing.

For more information, please visit mdpi.com/si/36251.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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