Special Issue

Fiber Bragg Grating Sensors and Their Application

Message from the Guest Editors

Fiber Bragg Grating (FBG) sensing technologies have undergone remarkable advancements, establishing themselves as a cornerstone of modern precision sensing. These devices stand out due to their high sensitivity and stability in measuring key parameters such as strain, temperature, pressure, and refractive indices. Their unique advantages—including compact size, electromagnetic immunity, multiplexing capability, and chemical stability under harsh environments—make them exceptionally suitable for a wide range of innovative applications. This Special Issue is dedicated to exploring the latest developments in FBG sensor design, fabrication, and practical implementation. We invite original research articles and reviews that address both fundamental and applied research on FBG sensing technologies, covering, but not limited to, topics such as new grating inscription techniques, enhanced sensitivity configurations, smart integration into composite materials and functional structures, innovative applications, and integration of FBG technology with other sensing techniques. Original research on FBG sensing technologies applied in biomedical sensing and healthcare are more than welcome.

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