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Fiber Optical Sensor: Recent Advancements, Techniques and **Applications**

Guest Editors:

submissions.

Prof. Dr. Jiwen Cui

Prof. Dr. Baotong Li

Message from the Guest Editors

Prof. Dr. Tianliang Li Recently, the working conditions of mechanical equipment are becoming more and more severe, resulting in grave difficulties to monitor and evaluate their operating condition. Owing to some distinct advantages, including resistance to electromagnetic noise and harsh environments, compact Prof. Dr. Yuegang Tan size, passive sensing, and distributed measurement, optical fiber sensors (OFS) including the FBG, have gradually grown into an important tool for mechanical equipment Deadline for manuscript operating condition monitoring. Therefore, the objective of closed (2 February 2024) this Special Issue is to put together current research and advancements in equipment operating condition monitoring based on OFS. This is seen especially in the aspects of extreme parameters (such as ultra-high temperature, ultrahiah pressure, intense radiation, micro-force, microdisplacement, etc.) of sensing and multi-parameter dynamic measurement. Contributions addressing the recent design, encapsulation. calibration. and error compensation technologies for OFS are in demand. Additionally, recent OFS applications in advanced and special mechanical equipment are also welcomed.



Specialsue





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Editor-in-Chief

Message from the Editor-in-Chief

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