Special Issue

Harsh Environment Special Sensors: From Materials to Electrical Readout

Message from the Guest Editor

The development of advanced sensors and actuators capable of operating in harsh environmental conditions, which include but are not limited to high temperatures, high radiation, high shock, and chemically corrosive environments, has experienced significant expansion in recent years. There is an abundance of applications which would benefit from the deployment of sensors able to operate in harsh environment conditions. The merits of these advanced sensors include integration into smart structures and components, improved robustness, enriched functionality, enhanced intelligence, and unprecedented performance.

This new Special Issue on Harsh Environment Special Sensors: From Materials to Electrical Readout invites researchers to contribute with reviews and original articles that delve into further performance improvements of advanced sensors for severe conditions. Particular focus is placed on smart parts (innovative sensors, smart interfaces, and readout circuits) to address the monitoring needs within extreme environment conditions, such as high temperature, high pressure, corrosive/erosive atmosphere, and large strain/stress.

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Deadline for manuscript submissions

closed (31 December 2020)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/49768

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Message from the Editor-in-Chief

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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