

## Special Issue

# Sensors and Materials for Harsh Environments

### Message from the Guest Editors

The development of sensors and actuators to operate in harsh environmental conditions has been gaining momentums in recent years. Harsh environments include, but are not limited to, high temperatures, high radiation, high shock, and chemically corrosive environments. The list of applications needing such precision sensors and actuators keeps growing, e.g., automotive, gas turbine, aircraft, oil and gas explorations, nuclear industry, space, etc. The advances in the manufacturing of silicon as a platform material have been able to drive down the costs of such systems and their ancillary electronics. However, the limitations of silicon performance, especially at temperature above 150 °C, have prompted researchers to explore new materials in order to make sensors and actuators that can operate in such extreme conditions. As an example, optical sensors, such as fiber optic sensors, are under investigation for operation in environments that mix several constraints, such as temperature and radiations.

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### Guest Editors

Dr. Faisal Mohd-Yasin

School of Engineering and Built Environment, Griffith University, Nathan, QLD 4111, Australia

Prof. Dr. Sylvain Girard

Laboratoire Hubert Curien, CNRS UMR 5516, Université de Lyon, 42000 Saint-Étienne, France

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### Deadline for manuscript submissions

closed (31 December 2018)



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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