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Sensors and Materials for Harsh Environments

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Message from the Guest Editors

Dear Colleagues,

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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Special Issue



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Message from the Editor-in-Chief

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