Special Issue

Infrared Sensor Technologies and Applications

Message from the Guest Editor

Highly sensitive optical sensors have received great interest during these last years. In particular, the ability to rapidly detect, identify and monitor chemical or biological species is imperative for environmental, health monitoring and security applications. The detection of traces of (bio)-chemical molecules requires sample preparation procedures combined with sophisticated analytical tools that can detect, within an acceptable time, disease biomarkers, emerging pollutants, chemical warfare agents or toxic industrial chemicals with high sensitivity to really detect low concentrations with high selectivity not to be affected by other factors in the environment. Many molecules can be detected in the mid-infrared (mid-IR) because of their characteristic absorption bands, creating a unique molecular fingerprint. Photonic devices operating in the mid-infrared (mid-IR) are currently developed for infrared sensor applications. We invite manuscripts for this forthcoming Special Issue in all pertinent aspects concerning infrared sensor technologies and applications. For more information, please click: mdpi.com/si/60971

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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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