

Infrared Sensor Technologies and Applications

Guest Editor:

Prof. Dr. Joël Charrier

University of Rennes 1, CNRS,
Institut Foton – UMR 6082, F-
22305 Lannion, France

joel.charrier@univ-rennes1.fr

Deadline for manuscript
submissions:

30 July 2021

Message from the Guest Editor

Dear Colleagues,

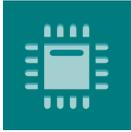
Highly sensitive optical sensors have received great interest during these last years. In particular, the ability to rapidly detect, identify and monitor chemical or biological species is imperative for environmental, health monitoring and security applications. The detection of traces of (bio)-chemical 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.

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CiteScore (2019 Scopus data): **5.0**; ranked 17/129 (Q1) in 'Physics and Astronomy: Instrumentation' and 147/670 (Q1) in 'Electrical and Electronic Engineering' and 70/300 (Q1) in 'Computer Science: Information Systems'.

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