

Special Issue

Advances in Infrared and Physical Sensors

Message from the Guest Editors

Along with the emerging Internet of Things and distributed sensors network, we have seen an enormous demand for sensors with a smaller footprint, lower power consumption, and higher sensitivity. Among these, infrared sensors detect electromagnetic waves with wavelength above 760 nm, which are widely used in night vision, communications, remote temperature monitoring, chemical analysis, etc. In practice, infrared radiation is usually transduced into other physical quantities, such as temperature, conductance, and pressure. In the meantime, physical sensors, detecting these quantities and others in the environment, provide complementary information to infrared sensors. More excitingly, because of the internal similarities between infrared and physical sensors, we have witnessed in the past few years many exciting works on infrared sensors adapted from physical sensors. This Special Issue seeks to showcase research papers and review articles that focus on (1) novel infrared sensors, (2) novel physical sensors, and (3) their applications for environmental monitoring, thermal imaging, biosensing, and so on.

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