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Infrared Detectors

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Message from the Guest Editor

Dear Colleagues,

Infrared Detectors, initially developed mainly for the defense industry, have now broadened their scope to cover a myriad of applications, covering almost all fields of interest. These include, composition identifications, toxic gas and explosive detection, medical diagnosis, astrophysical, industrial and commercial applications, imaging, and security applications, to name a few. Various types of semiconductor based (Quantum Well, Dot, Ring, Wire, Dot in Well, Hetero and or Homo junction, Type II Superlattice, Schottky and other barrier types) infrared (photon) detectors have been developed to satisfy these needs. These could include type IV, III-V, and II-VI material based detectors. Detectors with specialized features such as multiband, selectable wavelength, polarization sensitive, high operating temperature, high performance (including but not limited to very low dark current) are of particular interest. This Special Issue aims to highlight the recent advances in these various types of infrared detectors based on various material systems.

Prof. Dr. A. G. Unil Perera

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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