Special Issue

Infrared Detectors

Message from the Guest Editor

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.

Guest Editor

Prof. Dr. A. G. Unil Perera
Department of Physics & Astronomy, Georgia State University, Atlanta, GA 30303, USA

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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