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M. Nurul Abedin, Newsletter Editor-In-Chief  
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**Sensors Council News**

- 2008 Sensor Council Awards  
-The 2008 Technical Achievement Award is presented to Prof. Michael Shur



-The 2008 Meritorious Service Award is presented to Mr. Robert Bannon



-The 2008 Best Paper Award is Presented to White et al., IEEE Sensors Journal, Vol.7 (1), 2007

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**Sensor Technology**

# **Dual-Band Megapixel QWIP Focal Planes for Remote Sensing Applications**

## **S. D. Gunapala, S. V. Bandara, D. Z. Ting, C. J. Hill, and J. Nguyen**

Potential uses for light detectors operating in the 3–5 and 8–12  $\mu\text{m}$  wavelength range include ground- and space-based applications such as night vision, temperature detection, early warning systems, navigation, flight control systems, weather monitoring, as well as security and surveillance. In addition, they can be used to monitor and measure pollution, relative humidity profiles, and the distribution of different gases (such as ozone, carbon monoxide, and nitrous oxide) in the atmosphere. ...(more)

## Sensor Conferences

- [IEEE SENSORS 2009: The 8th IEEE Conference on Sensors, Christchurch, New Zealand: Oct. 25th - 28th, 2009](#)
- **IEEE SENSORS 2008:** The 7th IEEE Conference on Sensors, Lecce, Italy, Oct. 26 - 29, 2008  
-Some pictures from IEEE SENSORS 2008 conference can be found here.

## New Books on Sensors

- Chemical Sensors: An Introduction for Scientists and Engineers (Hardcover) by [Peter Gründler](#) (Author), Publisher: Springer; 1 edition (February 21, 2007).
- Multislice CT (Medical Radiology / Diagnostic Imaging) (Hardcover) by [M.F. Reiser](#) (Editor), [C.R. Becker](#) (Editor), [K. Nikolaou](#) (Editor), [G. Glazer](#) (Editor), Publisher: Springer; 3rd edition (December 8, 2008).
- Molecular Genetic Approaches to Maize Improvement (Biotechnology in Agriculture and Forestry) (Hardcover) by [Alan L. Kriz](#) (Editor), [Brian A. Larkins](#) (Editor), Publisher: Springer; 1 edition (December 8, 2008).
- Organic Electronics in Sensors and Biotechnology (Hardcover) by [Ruth Shinar](#) (Author), [Joseph Shinar](#) (Author), Publisher: McGraw-Hill Professional; 1 edition (June 29, 2009).
- Sensors and Actuators: Control System Instrumentation (Hardcover) by [Clarence W. de Silva](#) (Author), Publisher: CRC; 1 edition (January 29, 2007).
- Piezoelectric and Acoustic Materials for Transducer Applications (Hardcover) by [Ahmad Safari](#) (Editor), [E. Koray Akdogan](#) (Editor), Publisher: Springer; 1 edition (September 19, 2008).
- Piezoelectric Transducers and Applications (Hardcover) by [Antonio Arnau Vives](#) (Editor), Publisher: Springer; 2nd edition (May 29, 2008).
- Acoustics for Engineers: Troy Lectures (Kindle Edition) by [Jens Blauert](#) (Author), [Ning Xiang](#) (Author), Publisher: Springer; 1 edition (June 6, 2008).
- Smart Sensor Systems (Hardcover) by [Gerard Meijer](#) (Editor), Publisher: Wiley-Interscience (November 3, 2008).
- Smart CMOS Image Sensors and Applications (Optical Science and Engineering) (Hardcover) by [Jun Ohta](#) (Author), Publisher: CRC; 1 edition (September 19, 2007).
- Smart Sensors and MEMS (Paperback) by [Sergey Y. Yurish](#) (Editor), [Maria T.S.R. Gomes](#) (Editor), [Maria Teresa S.R. Gomes](#) (Author), Publisher: Springer; 1 edition (April 29, 2005).
- Microfluidic Technologies for Miniaturized Analysis Systems (MEMS Reference Shelf) (Hardcover) by [Steffen Hardt](#) (Editor), [Friedhelm Schönfeld](#) (Editor), Publisher: Springer; 1 edition (November 7, 2007).
- CMOS SRAM Circuit Design and Parametric Test in Nano-Scaled Technologies: Process-Aware SRAM Design and Test (Frontiers in Electronic Testing) (Hardcover) by [Andrei Pavlov](#) (Author), [Manoj Sachdev](#) (Author), Publisher: Springer; 1 edition (June 23, 2008).
- ESD Protection Device and Circuit Design for Advanced CMOS Technologies (Kindle Edition) by [Oleg Semenov](#) (Author), [Hossein Sarbishaei](#) (Author), [Manoj Sachdev](#) (Author), Publisher: Springer; 1 edition (May 5, 2008).
- Large Format CMOS Image Sensors: Performance and Design (Paperback) by [Suat Utku Ay](#) (Author), Publisher: VDM Verlag (August 5, 2008).
- Terahertz Sensing Technology: Emerging Scientific Applications & Novel Device Concepts (Selected Topics in Electronics and Systems, Vol. 32) (Hardcover) by [Dwight L. Woolard](#) (Editor), [William R. Loerop](#) (Editor), [Michael Shur](#) (Editor), Publisher: World Scientific Publishing Company (June 2004).
- Millimeter and Submillimeter Detectors and Instrumentation for Astronomy III: 29-31 May, 2006,

Orlando, Florida, USA (Proceedings of SPIE) (Hardcover) by [American Astronomical Society](#) (Other Contributor), Publisher: SPIE-International Society for Optical Engineering (January 2006).

-Terahertz Frequency Detection and Identification of Materials and Objects (Kindle Edition) by [R.E. Miles](#) (Editor), [X.-C. Zhang](#) (Editor), [H. Eisele](#) (Editor), [A. Krotkus](#) (Editor), Publisher: Springer; 1 edition (September 20, 2007).

-Terahertz Spectroscopy: Principles and Applications (Optical Science and Engineering Series) (Hardcover) by [Susan L. Dexheimer](#) (Editor), Publisher: CRC; 1 edition (December 22, 2007).

-Terahertz Science And Technology For Military And Security Applications (Selected Topics in Electronics and Systems) (Selected Topics in Electronics and Systems) (Hardcover) by [Dwight L. Woolard](#) (Editor), [James O. Jensen](#) (Editor), [R. Jennifer Hwu](#) (Editor), [Michael S. Shur](#) (Editor), Publisher: World Scientific Publishing Company (September 27, 2007).

Passive Terahertz Devices Based on Optically Excited Silicon: Introduction to Terahertz Time Domain Spectroscopy, Possible Methods for Beam Controlling ... Range, and Preliminary Experimental Results (Paperback) by [Canan Karaalioglu](#) (Author), Publisher: VDM Verlag (July 6, 2008).

-Principles of Terahertz Science and Technology (Lecture Notes in Physics) (Hardcover) by [Yun-Shik Lee](#) (Author), Publisher: Springer; 1 edition (December 2, 2008).

-Physics of Semiconductor Devices (Hardcover) by [Simon M. Sze](#) (Author), [Kwok K. Ng](#) (Author), Publisher: Wiley-Interscience; 3 edition (October 27, 2006).

-High-Operating-Temperature Infrared Photodetectors (SPIE Press Monograph Vol. PM169) (Press Monograph) (Paperback) by [Jozef Piotrowski](#) (Author), [Antoni Rogalski](#) (Author), Publisher: SPIE Publications (March 28, 2007).

Fabless Semiconductor Implementation (Hardcover) by [Rakesh Kumar](#) (Author), Publisher: McGraw-Hill Professional; 1 edition (March 26, 2008).

-Electronic Imaging in Astronomy: Detectors and Instrumentation (Springer Praxis Books / Astronomy and Planetary Sciences) (Hardcover) by [Ian S. McLean](#) (Author), Publisher: Springer; 2nd edition (July 29, 2008)..

-Panoramic Imaging: Sensor-Line Cameras and Laser Range-Finders (Hardcover) by [Fay Huang](#) (Author), [Reinhard Klette](#) (Author), [Karsten Scheibe](#) (Author), Publisher: Wiley; 1 edition (December 3, 2008).

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