

Proceedings Paper | 3 May 1988

**Short Wavelength 128 By 128 Focal Plane Arrays For Remote Sensing Applications**

*Mary Bothwell, Gary Bailey, Valerie Wright, Kadri Vural, Michael Blessinger*

Proc. SPIE. 865, Focal Plane Arrays: Technology and Applications

KEYWORDS: [Diodes](#), [Imaging systems](#), [Indium](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Sensors](#), [Spectroscopy](#), [Staring arrays](#), [Switches](#), [Video](#)

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Proceedings Paper | 16 August 2000

**Characterization of  $\lambda_c=5 \mu\text{m}$  HgCdTe arrays for low-background astronomy**

*Donald Hall, Klaus-Werner Hodapp, David Goldsmith, Craig Cabelli, Allan Haas, Lester Kozlowski, Kadri Vural*

Proc. SPIE. 4008, Optical and IR Telescope Instrumentation and Detectors

KEYWORDS: [Astronomy](#), [Data modeling](#), [Interference \(communication\)](#), [Multiplexers](#), [Quantum efficiency](#), [Sensors](#), [Signal to noise ratio](#), [Spectroscopy](#), [Staring arrays](#), [Temperature metrology](#)

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Journal Article | 1 March 1994

**Attainment of high sensitivity at elevated operating temperatures with staring hybrid HgCdTe-on-sapphire focal plane arrays**

*Lester Kozlowski, William McLevige, Scott Cabelli, A. Vanderwyck, Donald Cooper, Edward Blazejewski, Kadri Vural, William Tennant*

Optical Engineering Vol. 33, Issue 3 (Mar 1994)

KEYWORDS: [Capacitance](#), [Capacitors](#), [Field effect transistors](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Modulation](#), [Optical amplifiers](#), [Sensors](#), [Staring arrays](#), [Temperature metrology](#)

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Journal Article | 1 January 1994

**High-performance 5- $\mu\text{m}$  640 x 480 HgCdTe-on-sapphire focal plane arrays**

*Lester Kozlowski, Robert Bailey, Scott Cabelli, Donald Cooper, Isoris Gergis, Annie Chen, William McLevige, Gary Bostrup, Kadri Vural, William Tennant, Philip Howard*

Optical Engineering Vol. 33, Issue 1 (Jan 1994)

**KEYWORDS:** Cameras, Long wavelength infrared, Mercury cadmium telluride, Mid-IR, Quantum efficiency, Sapphire, Sensors, Silicon, Staring arrays, Temperature metrology

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Proceedings Paper | 1 October 1990

**256 x 256 HgCdTe focal plane array for the Hubble Space Telescope**

*Kadri Vural, Lester Kozlowski, Robert Rasche, Marcia Rieke*

Proc. SPIE. 1320, Infrared Technology and Applications

**KEYWORDS:** Ceramics, Electro optics, Hubble Space Telescope, Mercury cadmium telluride, Multiplexers, Quantum efficiency, Sapphire, Sensors, Silicon, Staring arrays

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Proceedings Paper | 20 October 1993

**Low-noise performance and dark-current measurements on the 256 x 256 NICMOS3 FPA**

*Donald Cooper, Duc Bui, Robert Bailey, Lester Kozlowski, Kadri Vural*

Proc. SPIE. 1946, Infrared Detectors and Instrumentation

**KEYWORDS:** Amplifiers, Capacitance, Detector arrays, Diodes, Infrared detectors, Interference (communication), Mercury cadmium telluride, Multiplexers, Sensors, Staring arrays

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Proceedings Paper | 21 August 2003

**Three-dimensional lidar focal plane array development at Rockwell Scientific: an update**

*Mohan Vaidyanathan, Song Xue, Kenneth Johnson, John Blackwell, Majid Zandian, Benji Hanyaloglu, Lester Kozlowski, Gary Hughes, John Montroy, Kadri Vural*

Proc. SPIE. 5086, Laser Radar Technology and Applications VIII

KEYWORDS: 3D image processing, Amplifiers, Detector arrays, Indium gallium arsenide, LIDAR, Mid-IR, Readout integrated circuits, Sensors, Short wave infrared radiation, Staring arrays

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Proceedings Paper | 21 December 1998

**HgCdTe multispectral infrared FPAs for remote sensing applications**

*Arvind D'Souza, Larry Dawson, Dan Berger, Arvel Markum, Jagmohan Bajaj, William Tennant, Jose Arias, Lester Kozlowski, Kadri Vural, Priyalal Wijewarnasuriya*

Proc. SPIE. 3498, Sensors, Systems, and Next-Generation Satellites II

KEYWORDS: Detector arrays, Infrared imaging, Infrared radiation, Infrared sensors, Mercury cadmium telluride, Mid-IR, Readout integrated circuits, Sensors, Short wave infrared radiation, Staring arrays

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Proceedings Paper | 26 July 1999

**HgCdTe detectors and FPAs for remote sensing applications**

*Arvind D'Souza, Larry Dawson, Dan Berger, Stewart Clark, Priyalal Wijewarnasuriya, Jagmohan Bajaj, Jose Arias, William Tennant, Lester Kozlowski, Kadri Vural*

Proc. SPIE. 3698, Infrared Technology and Applications XXV

KEYWORDS: Custom fabrication, Detector arrays, Long wavelength infrared, Mercury cadmium telluride, Mid-IR, Readout integrated circuits, Remote sensing, Sensors, Short wave infrared radiation, Staring arrays

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Proceedings Paper | 1 June 1994

**Status report on 1024x1024 HgCdTe detector arrays for low-background operation in the 1.0- to 2.5-um range**

*Klaus-Werner Hodapp, Donald Hall, Kadri Vural, Lester Kozlowski, Gary Bostrup, Annie Chen, Donald Cooper, Robert Bailey, Scott Cabelli, William Kleinhans*

Proc. SPIE. 2198, Instrumentation in Astronomy VIII

KEYWORDS: Amplifiers, Astronomical imaging, Astronomy, Detector arrays, Detector development, Infrared detectors, Infrared radiation, Mercury cadmium telluride, Multiplexers, Optical amplifiers

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Proceedings Paper | 17 July 2000

**Latest results on HgCdTe 2048x2048 and silicon focal plane arrays**

*Craig Cabelli, Donald Cooper, Allan Haas, Lester Kozlowski, Gary Bostrup, Annie Chen, John Blackwell, John Montroy, Kadri Vural, William Kleinhans, Klaus-Werner Hodapp, Donald Hall*

Proc. SPIE. 4028, Infrared Detectors and Focal Plane Arrays VI

KEYWORDS: Detector arrays, Infrared detectors, Infrared radiation, Mercury cadmium telluride, Multiplexers, Quantum efficiency, Sensors, Short wave infrared radiation, Silicon, Staring arrays

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Proceedings Paper | 6 June 1995

**Astronomical characterization results of 1024 x 1024 HgCdTe HAWAII detector arrays**

*Klaus-Werner Hodapp, Joseph Hora, Donald Hall, Lennox Cowie, Mark Metzger, Everett Irwin, Timothy Keller, Kadri Vural, Lester Kozlowski, William Kleinhans*

Proc. SPIE. 2475, Infrared Detectors and Instrumentation for Astronomy

**KEYWORDS:** [Analog electronics](#), [Astronomy](#), [Cameras](#), [Detector arrays](#), [Imaging systems](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Prototyping](#), [Sensors](#), [Telescopes](#)

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Proceedings Paper | 26 July 1999

**2048x2048 HgCdTe focal plane arrays for astronomy applications**

*[Kadri Vural](#), [Lester Kozlowski](#), [Donald Cooper](#), [C. Chen](#), [Gary Bostrup](#), [Craig Cabelli](#), [Jose Arias](#), [Jagmohan Bajaj](#), [Klaus-Werner Hodapp](#), [Donald Hall](#), [William Kleinhans](#), [G. Price](#), [J. Pinter](#)*

Proc. SPIE. 3698, Infrared Technology and Applications XXV

**KEYWORDS:** [Astronomy](#), [Clocks](#), [Field effect transistors](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Multiplexers](#), [Semiconducting wafers](#), [Sensors](#), [Short wave infrared radiation](#), [Staring arrays](#)

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Proceedings Paper | 14 September 1994

**2.5- $\mu$ m PACE-I HgCdTe 1024x1024 FPA for infrared astronomy**

*[Lester Kozlowski](#), [Kadri Vural](#), [Scott Cabelli](#), [C. Chen](#), [Donald Cooper](#), [Gary Bostrup](#), [D. Stephenson](#), [William McLevige](#), [Robert Bailey](#), [Klaus-Werner Hodapp](#), [Donald Hall](#), [William Kleinhans](#)*

Proc. SPIE. 2268, Infrared Spaceborne Remote Sensing II

**KEYWORDS:** [Astronomy](#), [Capacitance](#), [Field effect transistors](#), [Infrared astronomy](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Semiconducting wafers](#), [Sensors](#), [Short wave infrared radiation](#), [Staring arrays](#)

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Proceedings Paper | 27 June 1996

**MBE flexible manufacturing for HgCdTe focal plane arrays**

*J. Benson, John Dinan, James Waterman, Christopher Summers, Rudolph Benz, Brent Wagner, S. Pearson, Ashesh Parikh, John Jensen, Owen Wu, Rajesh Rajavel, G. Kamath, Karl Harris, Steven Jost, Jose Arias, Lester Kozlowski, Majid Zandian, Jagmohan Bajaj, Kadri Vural, Roger DeWames, Charles Cockrum, G. Venzor, Scott Johnson, H.-D. Shih, M. Bevan, J. Dodge, Art Simmons*

Proc. SPIE. 2744, Infrared Technology and Applications XXII

KEYWORDS: [Detector arrays](#), [Detector development](#), [Heterojunctions](#), [Infrared radiation](#), [Liquid phase epitaxy](#), [Manufacturing](#), [Mercury cadmium telluride](#), [Semiconducting wafers](#), [Sensors](#), [Staring arrays](#)

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Proceedings Paper | 23 January 2003

**Low power system-on-chip FPAs**

*Lester Kozlowski, M. Loose, Atul Joshi, Kadri Vural, Michael Buchin*

Proc. SPIE. 4820, Infrared Technology and Applications XXVIII

KEYWORDS: [Analog electronics](#), [Cameras](#), [Charge-coupled devices](#), [CMOS sensors](#), [Electronics](#), [Imaging systems](#), [Modulation transfer functions](#), [Sensors](#), [Staring arrays](#), [Video](#)

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Proceedings Paper | 29 September 2004

**The infrared detectors for the wide field camera 3 on HST**

*Massimo Robberto, Sylvia Baggett, B. Hilbert, John MacKenty, Randy Kimble, Robert Hill, David Cottingham, Greg Delo, Scott Johnson, Wayne Landsman, Eliot Malumuth, Elizabeth Polidan, Anne Russell, Augustyn Waczynski, Edward Wassell, Yiting Wen, Allan Haas, John Montroy, Eric Piquette, Kadri Vural, Craig Cabelli, Donald Hall*

Proc. SPIE. 5499, Optical and Infrared Detectors for Astronomy

KEYWORDS: [Astronomy](#), [Cameras](#), [Capacitance](#), [Electrons](#), [Hubble Space Telescope](#), [Infrared detectors](#), [Mercury cadmium telluride](#), [Quantum efficiency](#), [Sensors](#), [Space telescopes](#)

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Proceedings Paper | 12 January 2004

**Selection of the infrared detectors for Wide Field Camera 3 on the Hubble Space Telescope**

*Massimo Robberto, Massimo Stiavelli, Sylvia Baggett, Bryan Hilbert, John MacKenty, Randy Kimble, Robert Hill, David Cottingham, Gregory Delo, Scott Johnson, Wayne Landsman, Eliot Malumuth, Elizabeth Polidan, Anne Russell, Augustyn Waczynski, Edward Wassell, Yiting Wen, Allan Haas, John Montroy, Eric Piquette, Kadri Vural, Craig Cabelli, Donald Hall*

Proc. SPIE. 5167, Focal Plane Arrays for Space Telescopes

KEYWORDS: [Cameras](#), [Hubble Space Telescope](#), [Infrared detectors](#), [Infrared sensors](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Optical filters](#), [Quantum efficiency](#), [Sensors](#), [Space telescopes](#)

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Proceedings Paper | 17 July 2000

**Development of hybrid CMOS visible focal plane arrays at Rockwell**

*Yibin Bai, John Montroy, John Blackwell, Mark Farris, Lester Kozlowski, Kadri Vural*

Proc. SPIE. 4028, Infrared Detectors and Focal Plane Arrays VI

KEYWORDS: [Capacitance](#), [Charge-coupled devices](#), [Imaging systems](#), [Near infrared](#), [Quantum efficiency](#), [Readout integrated circuits](#), [Sensors](#), [Silicon](#), [Staring arrays](#), [Visible radiation](#)

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Proceedings Paper | 20 October 1993

**Low-background infrared hybrid focal plane array characterization**

*Lester Kozlowski, Scott Cabelli, Donald Cooper, Kadri Vural*

Proc. SPIE. 1946, Infrared Detectors and Instrumentation

KEYWORDS: [Amplifiers](#), [Capacitance](#), [Field effect transistors](#), [Infrared detectors](#), [Modulation](#), [Photovoltaics](#), [Quantum well infrared photodetectors](#), [Sensors](#), [Short wave infrared radiation](#), [Staring arrays](#)

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Proceedings Paper | 1 September 1992

**128 x 128 PACE-I HgCdTe hybrid FPAs for thermoelectrically cooled applications**

*[Lester Kozlowski](#), [S. Johnston](#), [William McLevige](#), [A. Vanderwyck](#), [Donald Cooper](#), [Scott Cabelli](#), [Edward Blazejewski](#), [Kadri Vural](#), [William Tennant](#)*

Proc. SPIE. 1685, Infrared Detectors and Focal Plane Arrays II

**KEYWORDS:** [Detector arrays](#), [Field effect transistors](#), [Infrared detectors](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Sensors](#), [Short wave infrared radiation](#), [Spectroscopy](#), [Staring arrays](#), [Temperature metrology](#)

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Proceedings Paper | 15 December 2000

**Progress toward high-performance infrared imaging systems-on-a-chip**

*[Lester Kozlowski](#), [Kadri Vural](#), [William Tennant](#), [William Kleinhans](#), [Isoris Gergis](#)*

Proc. SPIE. 4130, Infrared Technology and Applications XXVI

**KEYWORDS:** [Amplifiers](#), [Charge-coupled devices](#), [CMOS technology](#), [Imaging systems](#), [Infrared imaging](#), [Infrared radiation](#), [Sensors](#), [Staring arrays](#), [System on a chip](#), [Video](#)

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Proceedings Paper | 20 October 1993

**Status and direction of PACE-I HgCdTe FPAs for astronomy**

*[Lester Kozlowski](#), [Kadri Vural](#), [Duc Bui](#), [Robert Bailey](#), [Donald Cooper](#), [D. Stephenson](#)*

Proc. SPIE. 1946, Infrared Detectors and Instrumentation



**KEYWORDS:** [Astronomy](#), [Capacitance](#), [Field effect transistors](#), [Infrared detectors](#), [Mercury cadmium telluride](#), [Quantum efficiency](#), [Sensors](#), [Short wave infrared radiation](#), [Standards development](#), [Staring arrays](#)

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Proceedings Paper | 21 October 1996

**Low-noise, low-power HgCdTe/Al<sub>2</sub>O<sub>3</sub> 1024 x 1024 FPAs**

*[Lester Kozlowski](#), [Kadri Vural](#), [Donald Cooper](#), [C. Chen](#), [D. Stephenson](#), [Scott Cabelli](#)*

Proc. SPIE. 2817, Infrared Spaceborne Remote Sensing IV

**KEYWORDS:** [Astronomy](#), [Detector arrays](#), [Mercury cadmium telluride](#), [Quantum efficiency](#), [Reliability](#), [Semiconducting wafers](#), [Sensors](#), [Silicon](#), [Staring arrays](#), [Surveillance](#)

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Proceedings Paper | 1 November 1993

**640 x 480 Mwir HgCdTe FPA**

*[Lester Kozlowski](#), [Robert Bailey](#), [Kadri Vural](#)*

Proc. SPIE. 2020, Infrared Technology XIX

**KEYWORDS:** [Detector arrays](#), [Infrared sensors](#), [Infrared technology](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Multiplexers](#), [Quantum efficiency](#), [Semiconducting wafers](#), [Sensors](#), [Staring arrays](#)

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Proceedings Paper | 26 June 1996

**Attainment of high D\* at room temperature via gate-modulated detector interface**

*Lester Kozlowski, Kadri Vural, William Kleinhans, T. Liu, Gregory Olsen, Marshall Cohen*

Proc. SPIE. 2745, Infrared Readout Electronics III

KEYWORDS: [Capacitors](#), [Field effect transistors](#), [Indium gallium arsenide](#), [Infrared sensors](#), [Mercury cadmium telluride](#), [Modulation](#), [Multiplexing](#), [Near infrared](#), [Sensors](#), [Staring arrays](#)

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Proceedings Paper | 10 December 1992

**640 x 480 Pace HgCdTe FPA**

*Lester Kozlowski, Robert Bailey, Scott Cabelli, Donald Cooper, Gail McComas, Kadri Vural, William Tennant*

Proc. SPIE. 1735, Infrared Detectors: State of the Art

KEYWORDS: [Detector arrays](#), [Infrared detectors](#), [Long wavelength infrared](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Quantum efficiency](#), [Sapphire](#), [Sensors](#), [Staring arrays](#), [Temperature metrology](#)

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Proceedings Paper | 21 August 1998

**Prospects for large-format IR astronomy FPAs using MBE-grown HgCdTe detectors with cutoff wavelength > 4  $\mu\text{m}$**

*Robert Bailey, Jose Arias, William McLevige, John Pasko, Annie Chen, Craig Cabelli, Lester Kozlowski, Kadri Vural, Jian Wu, William Forrest, Judith Pipher*

Proc. SPIE. 3354, Infrared Astronomical Instrumentation

KEYWORDS: [Capacitance](#), [Detector arrays](#), [Diodes](#), [Infrared astronomy](#), [Infrared sensors](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Sensors](#), [Staring arrays](#), [Temperature metrology](#)

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Proceedings Paper | 26 October 1998

**Ultralow-noise infrared focal plane array status**

*Lester Kozlowski, John Montroy, Kadri Vural, William Kleinhans*

Proc. SPIE. 3436, Infrared Technology and Applications XXIV

KEYWORDS: Amplifiers, Capacitance, Charge-coupled devices, Imaging systems, Infrared radiation, Modulation, Sensors, Staring arrays, Transistors, Video

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Proceedings Paper | 7 October 1994

**Recent advances in staring hybrid focal plane arrays: comparison of HgCdTe, InGaAs, and GaAs/AlGaAs detector technologies**

*Lester Kozlowski, Jose Arias, G. Williams, Kadri Vural, Donald Cooper, Scott Cabelli, Carl Bruce*

Proc. SPIE. 2274, Infrared Detectors: State of the Art II

KEYWORDS: Amplifiers, Detector arrays, Long wavelength infrared, Mercury cadmium telluride, Quantum efficiency, Quantum well infrared photodetectors, Sensors, Short wave infrared radiation, Signal detection, Staring arrays

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Proceedings Paper | 22 July 1998

**Large-format SWIR/MWIR HgCdTe infrared focal plane arrays for astronomy**

*Kadri Vural, Lester Kozlowski, Craig Cabelli, Scott Cabelli, Annie Chen, Donald Cooper, Gary Bostrup, Robert Bailey, Dennis Edwall, Jose Arias, G. Stanley, G. Price, J. Pinter, William Kleinhans, Klaus-Werner Hodapp, Donald Hall*

Proc. SPIE. 3379, Infrared Detectors and Focal Plane Arrays V

KEYWORDS: Astronomy, Field effect transistors, Mercury cadmium telluride, Mid-IR, Multiplexers, Quantum efficiency, Semiconducting wafers, Sensors, Short wave infrared radiation, Staring arrays

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Proceedings Paper | 16 August 2000

**Visible and infrared detectors at Rockwell Science Center**

*Lester Kozlowski, John Montroy, Craig Cabelli, Donald Cooper, Annie Chen, Gary Bostrup, Yibin Bai, Kadri Vural, Klaus-Werner Hodapp, Donald Hall*

Proc. SPIE. 4008, Optical and IR Telescope Instrumentation and Detectors

KEYWORDS: Astronomy, Capacitance, Charge-coupled devices, Imaging systems, Quantum efficiency, Sensors, Silicon, Staring arrays, Video, Visible radiation

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Proceedings Paper | 21 August 1998

**HgCdTe 2048<sup>2</sup> FPA for infrared astronomy: development status**

*Lester Kozlowski, Kadri Vural, Scott Cabelli, Annie Chen, Donald Cooper, Gary Bostrup, Craig Cabelli, Klaus-Werner Hodapp, Donald Hall, William Kleinhans*

Proc. SPIE. 3354, Infrared Astronomical Instrumentation

KEYWORDS: Detector arrays, Infrared astronomy, Infrared radiation, Infrared sensors, Mercury cadmium telluride, Multiplexers, Semiconducting wafers, Sensors, Silicon, Staring arrays

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Journal Article | 1 March 1987

**Mercury Cadmium Telluride Short- And Medium-Wavelength Infrared Staring Focal Plane Arrays**

*Kadri Vural*

Optical Engineering Vol. 26, Issue 3 (Mar 1987)

KEYWORDS: Airborne remote sensing, Detector arrays, Infrared radiation, Mercury cadmium telluride, Mid-IR, Multiplexers, Prototyping, Sensors, Short wave infrared radiation, Staring arrays

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Proceedings Paper | 26 July 1999

**Fabrication and evaluation of 11.2- and 16.2- $\mu$ m cutoff C-QWIP arrays**

*[Naresh Das](#), [Kwong-Kit Choi](#), [Arnold Goldberg](#), [Anh La](#), [Murzy Jhabvala](#), [Robert Bailey](#), [Kadri Vural](#)*

Proc. SPIE. 3698, Infrared Technology and Applications XXV

KEYWORDS: [Cameras](#), [Clocks](#), [Gallium arsenide](#), [Indium](#), [Infrared imaging](#), [Infrared radiation](#), [Quantum well infrared photodetectors](#), [Quantum wells](#), [Sensors](#), [Staring arrays](#)

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Proceedings Paper | 8 April 1998

**Corrugated QWIP array fabrication and characterization**

*[Kwong-Kit Choi](#), [Arnold Goldberg](#), [Naresh Das](#), [Murzy Jhabvala](#), [Robert Bailey](#), [Kadri Vural](#)*

Proc. SPIE. 3287, Photodetectors: Materials and Devices III

KEYWORDS: [Absorption](#), [Detector arrays](#), [Neon](#), [Quantum efficiency](#), [Quantum well infrared photodetectors](#), [Quantum wells](#), [Reactive ion etching](#), [Sensors](#), [Staring arrays](#), [Wet etching](#)

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Proceedings Paper | 26 August 1997

**Performance of HgCdTe, InGaAs and quantum well GaAs/AlGaAs staring infrared focal plane arrays**

*[Lester Kozlowski](#), [Kadri Vural](#), [Jose Arias](#), [William Tennant](#), [Roger DeWames](#)*

Proc. SPIE. 3182, Material Science and Material Properties for Infrared Optoelectronics

**KEYWORDS:** [Detector arrays](#), [Indium gallium arsenide](#), [Infrared detectors](#), [Infrared radiation](#), [Mercury cadmium telluride](#), [Photovoltaics](#), [Quantum well infrared photodetectors](#), [Quantum wells](#), [Silicon](#), [Staring arrays](#)

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Proceedings Paper | 5 August 2002

**Advanced imaging sensors at Rockwell Scientific Company**

*[John Montroy](#), [James Garnett](#), [Scott Cabelli](#), [Markus Loose](#), [Atul Joshi](#), [Gary Hughes](#), [Lester Kozlowski](#), [Allan Haas](#), [Selmer Wong](#), [Majid Zandian](#), [Annie Chen](#), [John Pasko](#), [Mark Farris](#), [Craig Cabelli](#), [Donald Cooper](#), [Jose Arias](#), [Jagmohan Bajaj](#), [Kadri Vural](#)*

Proc. SPIE. 4721, Infrared Detectors and Focal Plane Arrays VII

**KEYWORDS:** [Cameras](#), [CMOS sensors](#), [Image resolution](#), [Imaging systems](#), [Infrared radiation](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Optical sensors](#), [Quantum efficiency](#), [Sensors](#)

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Proceedings Paper | 5 March 2003

**Infrared detectors for WFC3 on the Hubble Space Telescope**

*[Massimo Robberto](#), [Sylvia Baggett](#), [Chris Hanley](#), [B. Hilbert](#), [John MacKenty](#), [Edward Cheng](#), [Robert Hill](#), [Scott Johnson](#), [Eliot Malumuth](#), [Elizabeth Polidan](#), [Augustyn Waczynski](#), [Yiting Wen](#), [Allan Haas](#), [John Montroy](#), [Eric Piquette](#), [Kadri Vural](#), [Craig Cabelli](#), [Donald Hall](#)*

Proc. SPIE. 4850, IR Space Telescopes and Instruments

**KEYWORDS:** [Cameras](#), [Detector development](#), [Diodes](#), [Hubble Space Telescope](#), [Infrared detectors](#), [Mercury cadmium telluride](#), [Multiplexers](#), [Polarization](#), [Quantum efficiency](#), [Sensors](#)

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Proceedings Paper | 1 September 1990

**256 x 256 PACE-1 PV HgCdTe focal plane arrays for medium and short wavelength IR applications**

*Lester Kozlowski, Kadri Vural, V. Johnson, J. Chen, Robert Bailey, Duc Bui, Michael Gubala, James Teague*

Proc. SPIE. 1308, Infrared Detectors and Focal Plane Arrays

KEYWORDS: [Detector arrays](#), [Infrared detectors](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Photovoltaics](#), [Quantum efficiency](#), [Sapphire](#), [Sensors](#), [Short wave infrared radiation](#), [Staring arrays](#)

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Proceedings Paper | 1 December 1991

**Large staring IRFPAs of HgCdTe on alternative substrates**

*Lester Kozlowski, Robert Bailey, Donald Cooper, Kadri Vural, E. Gertner, William Tennant*

Proc. SPIE. 1540, Infrared Technology XVII


KEYWORDS: [Calibration](#), [Detector arrays](#), [Infrared technology](#), [Mercury cadmium telluride](#), [Mid-IR](#), [Quantum efficiency](#), [Reliability](#), [Sensors](#), [Staring arrays](#), [Temperature metrology](#)

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Proceedings Paper | 23 May 2009  Open Access

**Front Matter: Volume 7298**

Proc. SPIE. 7298, Infrared Technology and Applications XXXV

KEYWORDS: [Imaging systems](#), [Infrared imaging](#), [Infrared radiation](#), [Infrared sensors](#), [Long wavelength infrared](#), [Mercury cadmium telluride](#), [Night vision systems](#), [Sensors](#), [Staring arrays](#), [Thermography](#)

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