



# Long Wavelength Infrared Detectors

**Sheng S. Li**

## **Long Wavelength Infrared Detectors:**

Long Wavelength Infrared Detectors Razeghi,1997-11-21 This work presents a comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures. Featuring contributions from researchers working at the cutting edge of this field this volume will become an essential reference for advanced graduate students and researchers alike   **Long Wavelength Infrared Detectors** Manijeh Razeghi,2020-03-09 This timely work presents a comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures. The growth of quantum wells and superlattices is well documented in this volume as are the principal new superlattice technologies for long wavelength infrared detection. Featuring insightful contributions from researchers working at the cutting edge of this exciting field this volume is sure to become an essential reference for advanced graduate students and researchers alike   **Proceedings of the Sixth International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications** Sheng S. Li,1999   Long Wavelength Infrared Detectors Taylor & Francis Group,2020-12-18   **Proceedings of the Third International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications III** Sheng S. Li,1995   III-V Multiple Quantum Well Long Wavelength Infrared Detectors Deepak Kumar Sengupta,1997   **Proceedings of the Fifth International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications** Sheng S. Li,H. C. Liu,M. Z. Tidrow,1997   **Proceedings of the First International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications** Farhad Radpour,Victor R. McCrary,1995   **International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications , Proceedings of the Third International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications III** Sheng S. Li,1995   Proceedings of the Sixth International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications ,1999   **Semiconductor Quantum Wells and Superlattices for Long-wavelength Infrared Detectors** Mahmoud Omar Manasreh,1993 Provides a basic understanding of how semiconductor quantum wells and superlattices can be used for long wavelength infrared detectors and related systems. It represents a step towards a knowledge of novel structures that could be used for high performance infrared detectors and imaging rays   **Scientific and Technical Aerospace Reports** ,1994   *New Ternary Alloy Systems for Infrared Detectors* Antoni Rogalski,1994   *Innovative Long Wavelength Infrared Detector Workshop Proceedings* Jet propulsion lab pasadena ca,1995 The focus of the workshop was on innovative long wavelength infrared LWIR detectors with the potential of meeting future NASA and DoD long duration space application needs Requirements are for focal plane arrays which operate near 65K using active refrigeration with mission lifetimes of five to ten years The workshop addressed innovative concepts new material systems novel device physics and current progress in relation to benchmark technology It also provided a forum for discussion of performance characterization

producability reliability and fundamental limitations of device physics It covered the status of the incumbent HgCdTe technology which shows encouraging progress towards LWIR arrays and provided a snapshot of research and development in several new contender technologies These contenders span quantum wells heterojunctions and superlattices in columns 2 3 5 and 4 semiconductor materials and promise producible LWIR arrays with the required performance The workshop also included a session on new innovations for high performance thermal detectors

#### **Handbook of Infrared Detection**

Technologies M. Henini,M Razeghi,2002-12-11 Introduction Comparison of Photon and Thermal Detectors Performance GaAs AlGaAs Based Quantum Well Intra red Photodetector Focal Plane Arrays GaInAs P Based Qwips on GaAs InP and Si

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#### **Infrared and**

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**Materials for Infrared and Terahertz Detectors** Antonio Rogalski,2020-10-26 2D Materials for Infrared and Terahertz

Detectors provides an overview of the performance of emerging detector materials while also offering for the first time a comparison with traditional materials used in the fabrication of infrared and terahertz detectors Since the discovery of graphene its applications to electronic and optoelectronic devices have been intensively researched The extraordinary electronic and optical properties allow graphene and other 2D materials to be promising candidates for infrared IR and terahertz THz photodetectors and yet it appears that the development of new detectors using these materials is still secondary to those using traditional materials This book explores this phenomenon as well as the advantages and disadvantages of using 2D materials Special attention is directed toward the identification of the most effective hybrid 2D materials in infrared and terahertz detectors as well as future trends Written by one of the world s leading researchers in the field of IR optoelectronics this book will be a must read for researchers and graduate students in photodetectors and related fields Features Offers a comprehensive overview of the different types of 2D materials used in fabrication of IR and THz detectors and includes their advantages disadvantages The first book to compare new detectors to a wide family of common commercially available detectors that use traditional materials

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