



High Efficiency Room Temperature Infrared Sensor

[View U.S. Patent No. 11,626,484 in PDF format.](#)

WARF: P180031US01

Inventors: Hongrui Jiang, Seyyed Mohammad Moghimi

The Wisconsin Alumni Research Foundation is seeking commercial partners interested in a room-temperature infrared sensor with high detection efficiency that is straightforward to use and inexpensive to fabricate. This technology is usable across a wide range of IR wavelengths and facilitates high-resolution imaging applications.

The Invention

UW-Madison researchers have developed a room-temperature infrared sensor with high detection efficiency over a wide IR spectral band. Room-temperature operation makes this technology easier to use than cryogenically cooled sensors, and its high detection efficiency improves upon previous room-temperature IR sensors such as micro-bolometers. The sensor is simple to use and inexpensive to manufacture and can be employed for high-resolution imaging, an application challenging with previous room-temperature sensors due to incompatibility with microfabrication techniques.

Additional Information

For More Information About the Inventors

- [Hongrui Jiang](#)

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Sensors](#)

For current licensing status, please contact Michael Carey at mccarey@warf.org or 608-960-9867