

Infrared Imaging with Quantum Wells: Status and Trends

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This talk will present the status of the quantum structured infrared photodetectors and the trends in the development of thermal imaging sensors with the emphasis on the quantum well infrared photodetector (QWIP) technology which is still the only sensor technology offering excellent uniformity, pixel operability, stability and good imaging performance in the long wavelength infrared band. The talk will also present the studies conducted at the Middle East Technical University towards increasing the QWIP performance through alternative material systems and pixel engineering.