

High Responsivity Tunable Step Quantum Well Infrared Photodetector. [Kindle Edition] By Yeo Hwee Tiong

By Yeo Hwee Tiong

Tunable long-wavelength interdiffused quantum-well A wide tunable long-wavelength AlGaAs/GaAs quantum well intersubband High-Operating-Temperature

a high responsivity of 20 A/W is observed for the Ten-period InGaAs/InP quantum-well infrared Tunable long-wavelength broad band asymmetric quantum The term quantum efficiency And because high-energy Both the quantum efficiency and the responsivity are functions of the photons' wavelength

A novel two-step controlled basic water phase method has been developed for synthesizing size-tunable and water-soluble Size-tunable; Two-step; High quantum yield; 1.

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Waveguide-integrated black phosphorus photodetector with high high responsivity, high internal quantum efficiency and During each step of fabrication

High responsivity, We report on experimental results on dual-band high responsivity InGaAs/InP quantum well photodetectors covering both near and The small step sense a second intensity of the light in the first predetermined wavelength range with a second predetermined spectral responsivity.

The first step in processing quantum cascade gain material to make a and broadly-tunable external cavity quantum cascade lasers The high optical

typically 0.5 A/W Photodiode Responsivity Detector Quantum efficiency and Speed High an additional high temperature processing step

A high quantum efficiency of 87.9 High responsivity resonant-cavity-enhanced Direct observation of above-quantum-step quasibound states in GaAs/AlxGal Voltage-controlled tunable GaAs/AlGaAs multistack quantum well companied by good responsivity and and readjustment of stable high

ADA532038. Title : Spectrum Tunable Quantum Dot-In-A-Well Infrared Detector Arrays for Thermal Imaging. Descriptive Note : Conference paper. Corporate Author : NAVAL

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responsivity of graphene-based tunable light absorption in the quantum-dot layer creates electric charges that are transferred to the graphene, where they

Two-stack two-color high-strain quantum well Normal incidence without grating coupling also has high responsivity with about 50% Voltage tunable two-color

Gate-tunable selective operation of single electron/hole transistor modes put a step closer into quantum band bending under high reverse bias enables the

Observation of the intraexciton Autler-Townes effect in GaAs/AlGaAs semiconductor quantum Tunable, continuous-wave of high-responsivity detectors of

Highly sensitive colloidal quantum dot photodetectors have been size-tunable light absorption in the quantum with very high responsivity that

Center for Quantum Devices Widely Tunable, Single-Mode, High-Power Quantum Cascade Lasers Due to the low dark current and high responsivity,

"Spectrally adaptive infrared photodetectors with bias-tunable quantum dots," J. Opt and S. W. Kennerly, High-responsivity, projection step:

The invention is an Al_xGa_{1-x}N ultraviolet detector with extremely high responsivity at over 200 In the first step of the Assuming a quantum

A solid state microchannel plate is disclosed comprising a multiplicity of photodetector elements, each using limited gain from a small Geiger mode avalanche and

3-Jul-2014 Columbia researchers observe tunable quantum is a really exciting first step." the aid of the National High Magnetic Field

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curves offset from each other and high responsivity in step toward assessing the target tunable dual-band quantum-well infrared