

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

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## Patent us20040245592 - solid state microchannel

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

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## Hybrid graphene- quantum dot phototransistors with

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

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## Spie | proceeding | tunable long-wavelength

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

Domain: [proceedings.spiedigitallibrary.org](http://proceedings.spiedigitallibrary.org) File: </proceeding.aspx?articleid=1024772>

## Patent us5278435 - high responsivity ultraviolet

The invention is an Al<sub>x</sub> Ga<sub>1-x</sub> N ultraviolet detector with extremely high responsivity at over 200 In the first step of the Assuming a quantum

## Spie | proceeding | two-stack two-color high

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

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## Spectrum tunable quantum dot-in-a-well infrared

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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## L---- 11. 1.1.-.-

Voltage-controlled tunable GaAs/AlGaAs multistack quantum well companied by good responsivity and and readjustment of stable high

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

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

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

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

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

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### **High responsivity, dual-band response and**

High responsivity, We report on experimental results on dual-band high responsivity InGaAs/InP quantum well photodetectors covering both near and The small step

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### **Yu yao | ecee**

M. Loncar, J. Kong, and F. Capasso, High responsivity mid High performance C. F. Gmachl, A widely voltage-tunable Quantum Cascade

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

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Scalable single-step noninjection synthesis of high-quality core/shell quantum dots with emission tunable from production of core/shell quantum

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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

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

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The term quantum efficiency And because high-energy Both the quantum efficiency and the responsivity are functions of the photons' wavelength

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### **Modeling and simulation of a**

A high quantum efficiency of 87.9 High responsivity resonant-cavity-enhanced Direct observation of above-quantum-step quasibound states in GaAs/AlxGa1

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### **Spectrally adaptive infrared photodetectors with**

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

### **Patent us7894050 - method and apparatus for**

sense a second intensity of the light in the first predetermined wavelength range with a second predetermined spectral responsivity.

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