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Lasers Part 1 -  
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Lasers: Compact  
Widely Tailorable Light  
Sources from 3 to 300  
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**Quantum Cascade**  
**Lasers: 20 Years of**  
**Research at the**  
**Center for Quantum**  
**Devices ESE 319-**  
**Quantum Cascade**  
**Lasers**

Quantum Cascade  
 Lasers: From Lab  
 Curiosity to Tools (Or  
 How to Convert Ideas  
 into Products) *What is*  
*QUANTUM CASCADE*  
*LASER? What does*  
*QUANTUM CASCADE*  
*LASER mean?*  
*QUANTUM CASCADE*  
*LASER meaning*  
*Quantum Cascade*  
*Laser Oct 8 Science*  
*Sunday - Quantum*  
*Cascade Lasers*  
*Federico Capasso on*  
*the quantum cascade*  
*laser Part 5 - Quantum*  
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*Compact Widely*

Tailorable Light  
Sources from 3 to 300  
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*with Quantum Cascade*  
*Lasers* Simulation of a  
Quantum Cascade  
Laser *How lasers work*  
*(in theory)* QUANTUM  
CONFINEMENT AND  
QUANTUM DOT LASERS  
**How Lasers Work - A**  
**Complete Guide** **laser**  
**principle**

How a Laser Works

Kumar Patel on the  
 development of the  
 CO2 laser *Terahertz*  
*Camera - Live See-*  
*through imaging*  
*Design and*  
*Measurement of*  
*Casimir Forces-*  
*Federico Capasso*

Quantum Materials |  
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TeraSense terahertz  
 imaging camera *Part 3*  
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Widely Tailorable Light  
Sources from 3 to 300  
 $\mu\text{m}$  Part 2—Quantum*

*Cascade Lasers:*

*Compact Widely  
Tailorable Light*

*Sources from 3 to 300  
 $\mu\text{m}$  **Quantum Well***

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**Plasma Etching for**

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**Characterization Of  
Quantum Cascade  
Lasers**

Quantum cascade  
lasers are  
semiconductor lasers  
that emit in the mid- to  
far-infrared portion of  
the electromagnetic  
spectrum and were  
first demonstrated by  
Jerome Faist, Federico  
Capasso, Deborah  
Sivco, Carlo Sirtori,  
Albert Hutchinson, and  
Alfred Cho at Bell  
Laboratories in 1994.

Unlike typical  
interband  
semiconductor lasers  
that emit  
electromagnetic  
radiation through the  
recombination of  
electron-hole pairs  
across the material  
band gap, QCLs are  
unipolar and laser  
emission is achieved ...

**Quantum cascade  
laser - Wikipedia**

Characterization of  
Quantum Cascade  
Lasers on Silicon

Daniel Leon-Gijon  
Electrical Engineer  
Mentors: Alexander  
Spott & Robert Zhang  
Faculty Advisor:  
Professor John E.  
Bowers

### **Characterization of Quantum Cascade Lasers on Silicon**

Based on this characterization system, the characteristics of gas source MBE grown InAlAs/InGaAs/InP quantum cascade lasers, especially their thermal property, have been evaluated. The results show that in the combination of  $I - P$ ,  $I - V$  and spectral measurements at various driving pulse parameters, the thermal resistance, lasing conditions as well as spectral character of the devices could be

deduced.

### **Characterization of InAlAs/InGaAs/InP mid-infrared quantum ...**

PDF | Quantum cascade lasers are coherent light sources that rely on intrasubband transition in periodic semiconductor quantum well structures. They... | Find, read and cite all the research you ...

### **(PDF) Thermal characterization of quantum cascade lasers ...**

Quantum Cascade Lasers (QCLs) are capable of reaching Watt level output power at room temperature, cw operation but are limited to the spectral region of above 3.5 microns. Recently,

Shterengas et al fabricated type-I quantum well cascade diodes that emit below 3 microns with output power near 590 mW and improved conversion efficiency compared to single-stage type-I diodes.

### **Characterization of new type-I quantum well cascade lasers**

Characterization of mid-infrared quantum cascade lasers . By David Patrick Burghoff. ... .Quantum cascade lasers provide some of the highest output powers available for light in the mid-infrared range (from 3 to 8  $\mu\text{m}$ ). As many of their applications require portability, designs that have a high wall-plug efficiency are essential, and were ...

### **Characterization of mid-infrared quantum cascade lasers - CORE**

Because of the lack of light source in the mid-infrared range (wavelengths of 3-30  $\mu\text{m}$ ), the mid-infrared quantum cascade lasers with high quality radiation are playing important roles in several research fields such as chemical and bio-chemical spectroscopy, free space gas sensing and communication.

### **Characterization and Theoretical Study of Mid-infrared ...**

The growth and characterization of quantum cascade (QC) lasers based on InGaAs/InAlAs material system are investigated. Pronounced intersubband

absorption from stacked active region of QC structure is used to monitor the wavelength of QC laser and disclose the material quality.

### **Growth and characterization of InGaAs/InAlAs quantum ...**

Characterization of InAlAs/InGaAs/InP mid-infrared quantum cascade lasers. Zhang YG(1), Nan KJ, Li AZ.  
Author information:  
(1)State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, PR China.  
ygzhang@itsvr.sim.ac.cn

### **Characterization of**

### **InAlAs/InGaAs/InP mid-infrared quantum ...**

External cavity quantum cascade lasers (ECQCLs) provide a versatile infrared laser source for spectroscopy of molecules. Recent work in our laboratory has demonstrated rapid swept-wavelength tuning for broadband spectroscopy and sensing in both point and standoff measurements.  
27-3227. M.

### **Characterization of high-explosive detonations using ...**

Secondary ion mass spectrometry is applied to the depth profiling of the superlattice active region of lattice matched ( $\sim 9.2 \mu\text{m}$ ) Al<sub>0.48</sub>In<sub>0.52</sub>As/In<sub>0.53</sub>Ga<sub>0.47</sub>As/InP

quantum cascade lasers. The developed measurement procedure is capable of characterizing the quality of each individual layer in the superlattice region, including layers as thin as 0.7 nm.

### **Characterization of the superlattice region of a quantum ...**

The experimental part reports the whole process of the mid-infrared quantum cascade lasers completed at the University of Waterloo. In summary, the design, optimization, fabrication and characterization of the mid-infrared quantum cascade lasers is verified and improved.  
 en: dc.language.iso:  
 en: en: dc.publisher:  
 University of Waterloo:

en: dc ...

### **Characterization and Theoretical Study of Mid-infrared ...**

In quantum cascade lasers, the wavelength, entirely determined by quantum confinement, can be tailored from the mid-infrared to the submillimeter wave region in the same heterostructure material....

### **Characterization of InAlAs/InGaAs/InP mid-infrared quantum ...**

The growth and characterization of quantum cascade (QC) lasers based on InGaAs/InAlAs material system are investigated. Pronounced intersubband absorption from stacked active region of QC structure is used

to monitor the wavelength of QC laser and disclose the material quality.

### **Growth and characterization of InGaAs/InAlAs quantum ...**

We have studied the current- and temperature-driven frequency tunability of quantum cascade lasers operating at 2.5 THz. The design of the active medium follows the so-called bound-to-continuum approach. One laser has a Fabry-Perot type resonator. It operates on several modes simultaneously. The other has a distributed feedback structure on top of the active medium which leads to single mode ...

### **Spectral characterization of terahertz quantum**

### **cascade ...**

We report the time resolved characterization of Fabry-Perot quantum cascade lasers (FP-QCLs). We are developing a custom-built broadband laser source in the Mid-LWIR range by combining several high power FP-QCLs for a single snapshot application. This white light source would enable not only stand-off detection applications in a single snapshot but also new data collection modalities such as ...

### **Time resolved characterization of Fabry-Perot quantum ...**

characterization of QCLs provides a mode for comparing different device designs, packaging geometries and con-tributes to

increasing reliability and performance of QC lasers. This paper describes the development of the instrumentation for accurate and fast evaluation of thermal characteristics of semiconductor lasers based on thermorefectance

**CCD  
thermorefectance  
spectroscopy as a  
tool for thermal ...**

In this paper, the

frequency characteristics of a terahertz quantum-cascade laser (QCL) operating around 2.5-THz in the pulsed regime have been studied by means of a heterodyne detection by using an optically pumped molecular laser as the local oscillator. The absolute frequency of the QCL can be determined with an accuracy of 1 MHz due to the pulse-to-pulse jitter of the QCL.