

We report on the growth, fabrication, experimental study and application in an absorption gas setup of distributed feed-back antimonide diode ...

The results demonstrate that InP-based light sources provide a promising concept for mid-infrared semi-conductor diode lasers and are suitable for a range of sensor and other applications.

After eight years of research at the University of Sheffield, a new class of InGaAs APD technology was recently announced. Through the addition of antimony alloys, the new APDs demonstrate up to ...

We report on the growth, fabrication, experimental study and application in an absorption gas setup of distributed feed-back antimonide diode lasers with buried grating.

Recent optoelectronics domain studies concluded the increased need to provide improved, stable, and efficient designs to operate high-power NIR (Near-infrared) laser diodes.

Single Lateral Mode Mid-Infrared Laser Diode using Sub-Wavelength Modulation of the Facet Reflectivity G. R. Nash* College of Engineering, Mathematics and Physical Sciences, University of ...

At the heart of an IR diode laser is a p-n junction, a structure formed by two types of specially treated, or "doped," semiconductor materials. The n-type region has an excess of ...

Here, we report an advanced sawtooth waveguide (ASW) structure integrated onto a wide ridge waveguide. It strategically enhances the loss difference between higher-order modes and ...

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