# Door-to-door transport of vertical cavity surface-emitting lasers DML

VCSELs offer many advantages in fabrication and performance over conventional edge-emitting lasers where light is emitted on one or two edges of the chip. In ...

Validated with experimental results, the proposed approach provides a quantum-kinetic perspective of the tunneling process and paves the way toward a comprehensive theory of VCSELs, ...

Looking to both the applications of passive cavity optomechanics and those of wavelength-swept VCSELs, we highlight applications for these phenomena and design and fabrication changes to ...

We examine the spectral characteristics of the laser in order to determine its key parameters and define the appropriate operating conditions for investigating the VCSEL"s response ...

We present a comprehensive description of electric properties of vertical-cavity surface-emitting lasers (VCSELs). A complete drift-diffusion model is developed and applied for carrier ...

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In this work, we address the modeling and design of vertical-cavity surface-emitting lasers (VCSELs) featuring large-active-area non-circular geometries and elliptical polarization states.

In this paper, we present a detector-integrated vertical-cavity surface-emitting laser (VCSEL) with a movable high-contrast grating (HCG) mirror in an manner.

A simulation model for the high-frequency direct current modulation of vertical-cavity surface-emitting lasers (VCSELs) has been developed based on rate equation theory.

In this paper, the vertical and lateral (radial) transport behavior of carriers in GaN-based VCSELs were investigated and a new device structure with an additional hole storage layer is ...

A specific photonics technology that shows great promise for high speed intra-satellite data transfer applications is the Vertical Cavity Surface Emitting Laser diode (VCSEL). It is a semiconductor ...

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