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In this paper, we present a directly modulated laser (DML) using a partially corrugated grating (PCG) and integrated with a semiconductor optical amplifier (SOA).

EML and DML are two essential laser technologies used in 100G/200G/400G/800G transceivers. The key differences between EML and DML will be illustrated in this article.

We propose, to our knowledge, a novel end-to-end optimization approach for DML systems, incorporating the learning of bias and peak-to-peak modulation current to the optimization of ...

In this paper, we show that artificial neural networks (ANNs) are an effective nonlinear equaliser for enhancing the transmission performance of high-speed IM/DD systems using DML.

However, their complex nonlinear dynamics make the modeling and optimization of DML-based systems challenging. In this paper, we study the end-to-end optimization of DML-based systems based on a ...

The DML platform and the elegance of the Optical Interposer design allows for multiple integrated Optical Engines to be placed on one module. That feature achieves greater functionality ...

We propose and fabricate a monolithically integrated dual-mode semiconductor laser (DML) based on optical amplified feedback, where the adjustable optical self-injection feedback could ...

Although the higher chirp of DML relative to EML poses less of an issue, they remain optimal for short-distance optical interconnects. This paper provides a comprehensive review of ...

We designed and fabricated a semiconductor optical amplifier-integrated dual-mode laser (SOA-DML) as a compact and widely tunable continuous-wave terahertz (CW THz) beat source, and ...



# Finnish Optical Amplifier DML

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