GDR Telecom Site Energy Systems

Quantum Chips and Optical Modules

Overview

Explore the role of optical modules in quantum computing, their impact on speed and precision, challenges, and the future of technological innovation.

Quantum Chips and Optical Modules

Our manuscript, published in Nature, shares details of a feature-complete set of quantum photonic components, purpose-built to deliver million-qubit-scale systems. Every component has ...

In this review, we focus on the latest advances in implementing quantum communication on quantum photonic chips.

This chapter explores the transformative applications of optical chips in quantum photonics, highlighting innovations in integrated photonic circuits, single-photon sources, and ...

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We present the concept and im-plementation scheme for a novel quantum chip optoelectronics interposer (QuIP) that will serve as an interface between multi-ple components and chiplets of the ...

Quantum Optics Devices on a Chip provides a comprehensive understanding of how the integration of advanced quantum technologies and photonics is revolutionizing multiple industries, ...

indie Photonics'' optical components and subsystems that empower next-generation quantum technologies, specifically quantum computing and Quantum Key Distribution (QKD).

Now, we face quantum communication as a revolutionary new approach to data transmission. In particular, secure quantum communication (QC) may benefit from the know-how that has been ...

In the past, quantum optical experiments needed big, awkward lab setups with a lot of carefully tuned parts. Now, researchers have packed all of that onto a chip, thanks to some seriously ...

Here we construct a (sub-performant) scale model of a quantum computer using 35 photonic chips to demonstrate its functionality and feasibility.

Contact Us

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