

Using interference between two lasers, a research group led by scientists from RIKEN and NTT Research have created an "optical conveyor belt" that can move polaritons -- a type of light ...

Microsoft Digital Employee Experience, the organization that powers, protects, and transforms the company, recently deployed a robust next-generation optical network that offers the ...

In just five months, a new version of the AWS DWDM transponder was developed with added features and specialized tools to handle long-distance connections. Development began in ...

InP and SiPho join CMOS as critical technologies. Lasers, CPO and OCS will be everywhere (indium phosphide, silicon photonics, co-packaged optics, optical circuit switch).

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Optical networking reached an inflection point in 2025 as AI infrastructure forced fundamental architectural changes across data centers, interconnect fabrics, and long-haul networks.

Optical communications and networks constituting the backbone of Internet infrastructure will thus have to be radically different in the next 10 years and beyond.

This paper presents two illustrative examples based on the optical aggregation and optical XOR operations which have been progressively maturing and thus, could be feasibly ...

Optical backbones need to be able to rapidly scale as new network demands arise. Optical backbones need a certain amount of agility to respond to new, high-capacity, revenue ...

Evolving towards the 2030 optical communications network system and architecture is a key issue facing the optical communications industry and requires viable technical options for building future ...

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