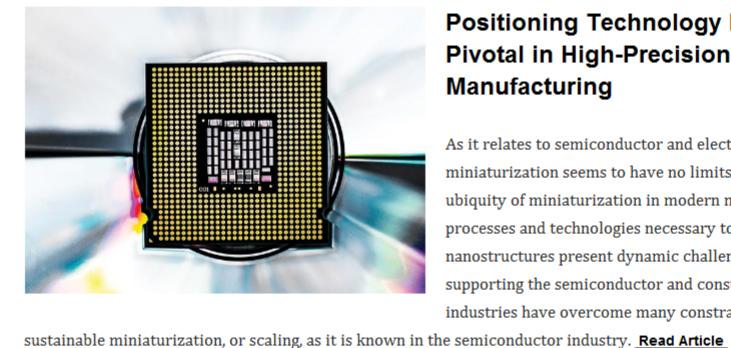


Monthly Newsletter

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Photonics.com/subscribe.





Positioning Technology Proves to Be Pivotal in High-Precision Manufacturing As it relates to semiconductor and electronics manufacturing,

miniaturization seems to have no limits. Yet despite the ubiquity of miniaturization in modern manufacturing, the processes and technologies necessary to fabricate nanostructures present dynamic challenges. Manufacturers supporting the semiconductor and consumer electronics industries have overcome many constraints on the road to

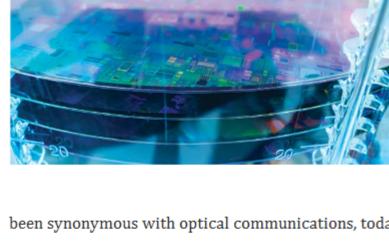
A Small Photon Source Promises to



In recent years, quantum computers have made headlines, while quantum communication solutions have made it to

Enhance Quantum Communication

markets. Simple solutions, such as quantum random number generators, have been transferred into smartphones. Similar quantum encryption modules for terrestrial telecom router systems are available off-the-shelf. Read Article Illuminating the Future: Navigating the



Supply Chain The integration of photonic devices at the wafer scale has emerged as a transformative force, offering a reliable and

scalable pathway to implement complex photonic functions

Integrated Photonics Industry and

cost-effectively on a chip. While integrated photonics has long been synonymous with optical communications, today's landscape presents unprecedented challenges and opportunities — including those that fall outside the bounds of traditional optical telecommunications and data communications.

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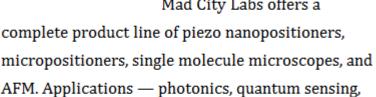
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PI (Physik Instrumente) LP, Motion Control, Air

The F-141 is a cost-optimized automated photonics

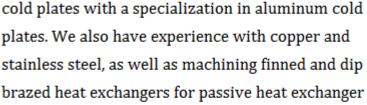
alignment system designed for fast and accurate

test and assembly of arrays, components, and photonics integrated circuits on silicon photonics wafers. The F-141 is available with up to 6 degrees

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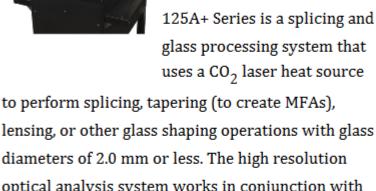
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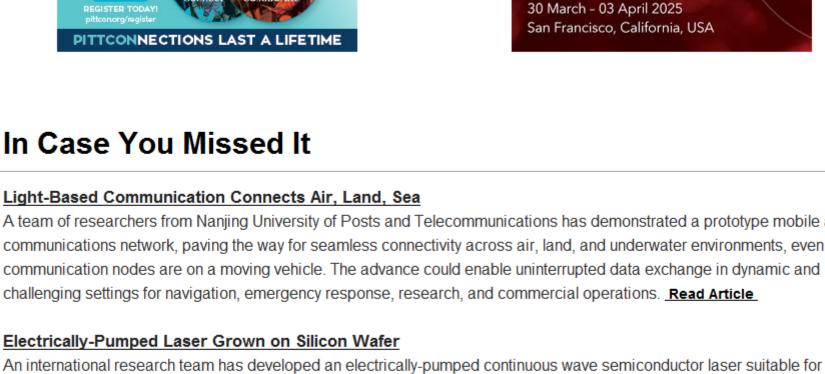
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tapering and other glass shaping processes.

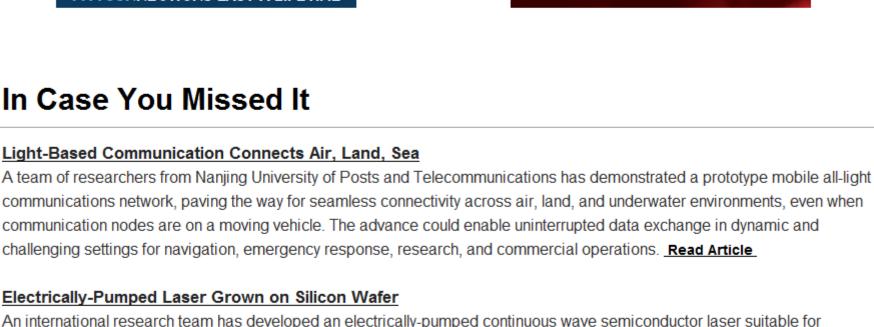
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Quantum Dot Recycling Improves Sustainability of Lasers To make quantum dot technology more sustainable, researchers at the University of Strathclyde developed a practical,

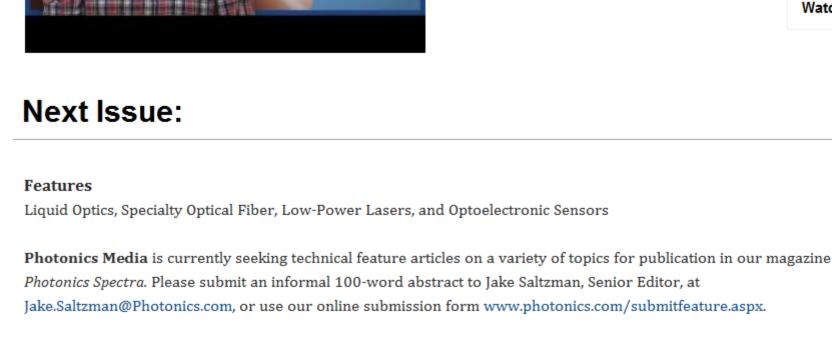
predecessors. Read Article

Read Article

Photonics Spectra Now Reviews the

inexpensive way to recycle the colloidal quantum dots (CQDs) used to make microscopic supraparticle lasers. The researchers created new lasers from the recycled CQDs and demonstrated that the performance of these lasers was comparable to their

seamless silicon integration. According to the team, this is the first laser of its kind directly grown on a silicon wafer.



Biggest Stories from 2024

2024 was packed with big business headlines, powerful teamups, changes of leadership for leading organizations, and lifechanging breakthroughs. But before we recap the year's top headlines, Photonics Spectra Now starts off with breaking news as Zebra Technologies Global makes moves to acquire Photoneo. Sponsored by Nyfors Teknologi AB and LightPath Technologies.

Watch Now

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