



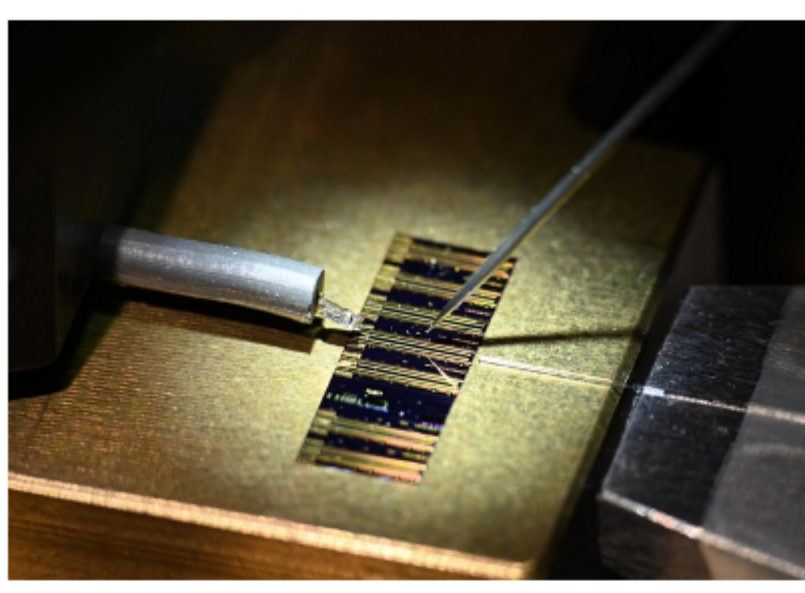
Weekly News



Photonics Spectra Now Reviews the Biggest Stories from 2024

2024 was packed with big business headlines, powerful team-ups, changes of leadership for leading organizations, and life-changing 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.

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Laser-Based Artificial Neuron Surpasses its Analog

Researchers have developed a laser-based artificial neuron that fully emulates the functions, dynamics, and information processing of a biological graded neuron. With a signal processing speed of 10 GBaud — a billion times faster than its biological counterparts — the new laser graded neuron could lead to breakthroughs in fields like artificial intelligence and other types of advanced computing. [Read Article](#)



US DOE Earmarks \$179M for Microelectronics Science Research Centers

The U.S. Department of Energy will fund three Microelectronics Science Research Centers with \$179 million over four years. The three centers, authorized by the Micro Act passed in the CHIPS and Science Act, will perform basic research in microelectronics materials, device and system design, and manufacturing science to transform future

microelectronics technologies. [Read Article](#)



Photonics 2025: Trends, Challenges, and Innovations

The year 2025 is only just now upon us, but it is already facing many concerns: Politics will change (America) or face instability (Europe), and the threat of various conflicts will alter supply chains. In industry, auto manufacturing is undergoing significant changes. At the same time, the outlook for the semiconductor industry is slightly positive.

Nevertheless, some companies fear for their existence. I won't dive into political discussions, but I would love to share a few trends that I find to be worth watching in 2025. [Read Article](#)

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