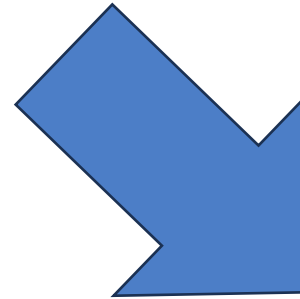
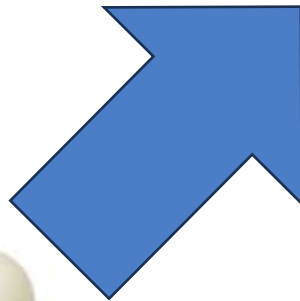


Photonics & Precision Technology

November 12, 2025

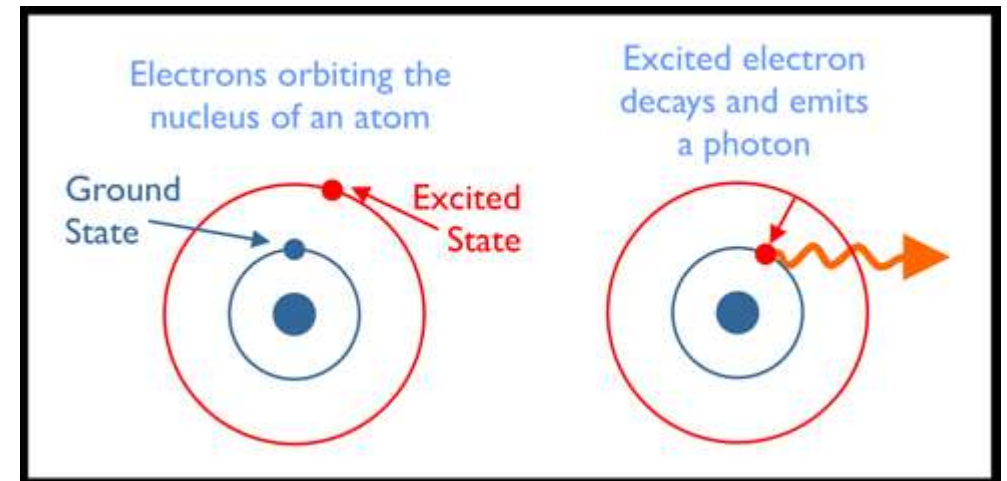
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Is light the solution?



What are photons?

- Elementary particles of light.
- It behaves as both a particle and a wave.
- Massless, but has momentum.
- Moves at the speed of light.
- Its energy is directly proportional to its wavelength.



Advantages of photons over electrons?



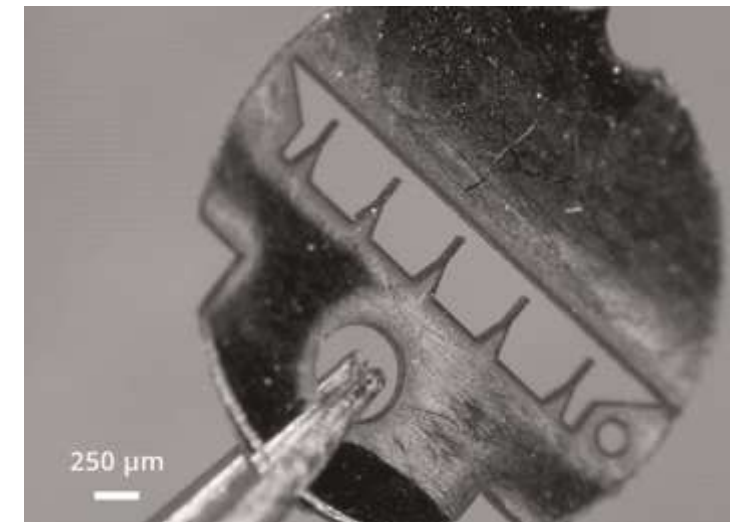
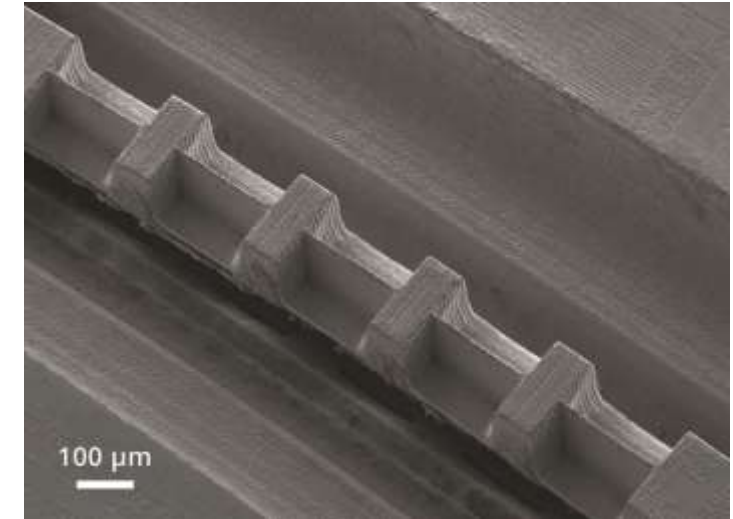
- Faster
 - Moving at the speed of light
- Massless
 - Better energy efficiency
 - Lower heat production
 - Less cooling required
- Free space application
 - Transferrable through air



Photonics anno 2025

Where it makes the difference

- Semiconductors: Wafer trimming, EUV lithography alignment
- Medical Devices: Stent cutting, catheter shaping
- Metrology & Inspection: High-resolution imaging, interferometry
- Quantum & AI Systems: Integrated photonics for data transfer



Photonics 2026 and onwards



- Discover the possibilities at booth H3-556





te lintelo systems bv
photonics. our passion!

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