

Photonic Chips for the Future of Quantum and Optical Technologies

CONTACT

JOANNEUM RESEARCH
Forschungsgesellschaft mbH

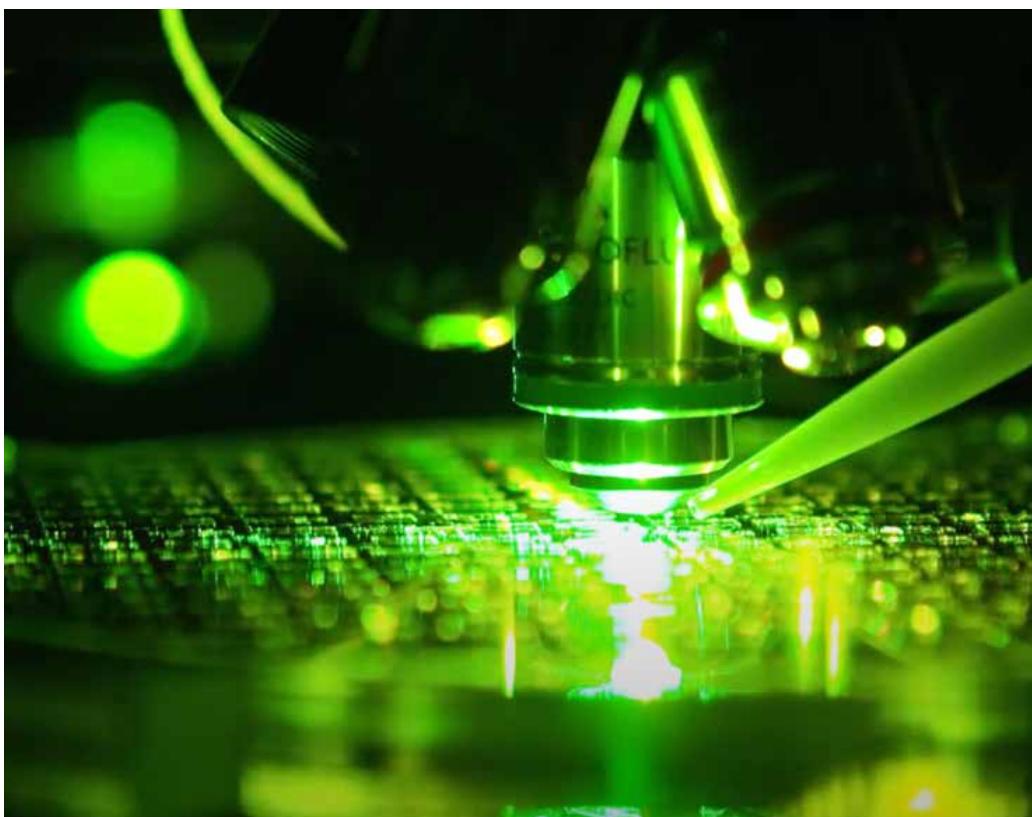
MATERIALS

Institute for Sensors, Photonics and Production Technologies

Franz-Pichler-Straße 30
8160 Weiz

Phone +43 316 876-30 00

materials@joanneum.at
www.joanneum.at/materials



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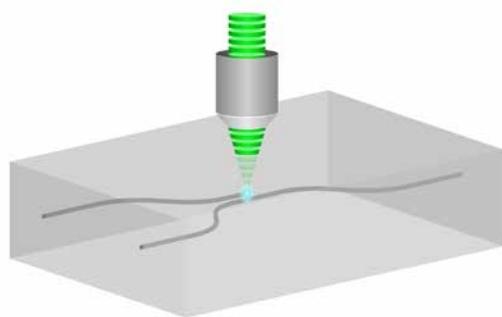


FLMOptChips
FFG Funding (Nr. F0999896211)

ScaleQUDITS
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We create **integrated optical circuits** – written directly into glass using ultrashort laser pulses. These compact photonic chips guide and control light with high precision and are key to next-generation applications in:

- **Quantum computing** – process information using photons as qubits
- **Optical sensing** – detect temperature, pressure, or strain with extreme sensitivity
- **Signal processing** – fast, reconfigurable light-based circuits



Our building blocks include **reconfigurable Mach-Zehnder interferometers** with tunable phase control, enabling flexible, programmable photonic systems—on a chip the size of a credit card.