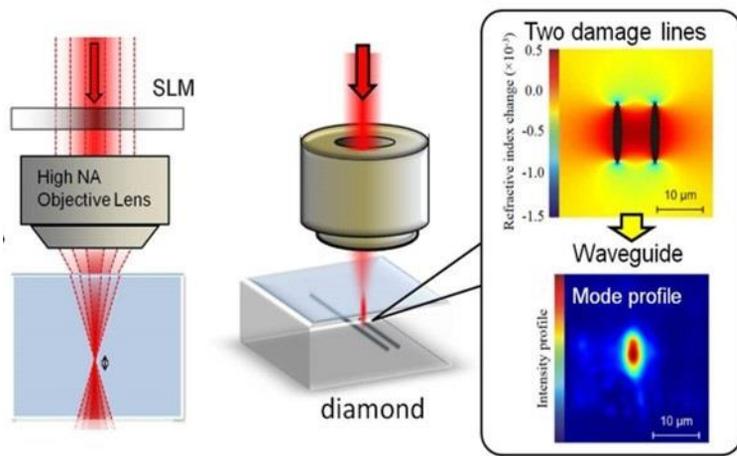
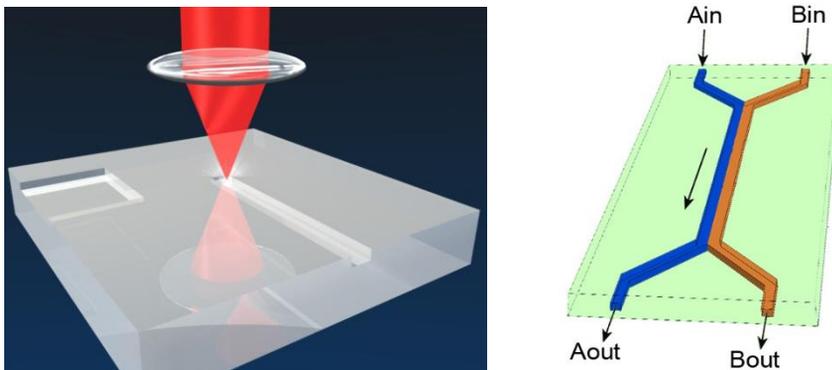


Femtosecond laser nanofabrication laboratory

- Dr. Shane Eaton, Prof. Roberta Ramponi
 - We exploit **nonlinear interaction** between **ultrashort laser pulses** and **transparent materials** to write **3D devices** with **submicron resolution** for applications in **lab-on-chip, telecom, quantum information, bio-sensing**
- PhD Projects (3 years, €1 300/month)
 - **Quantum computing** with **3D waveguides** in **diamond** formed using femtosecond laser writing assisted with spatial light modulation



- **Artificial photosynthesis** in a buried microfluidic channel in glass



- **Photonic wirebonds** for optical interconnects by 3D direct laser writing

