

# **3D High Precision Microlithography with Ultrashort Laser Pulses**

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Laser materials processing with ultrashort laser pulses has evolved into a versatile technology. With additive two-photon polymerization and fs laser ablation, it has given rise to two important complementary processing modes for microtechnology, enabling the fabrication of functional 3D micro and nano devices in micro-optics, mechanics, fluidics, biology and medicine. In this talk, we will give an overview on our recent works and results from biomedicine to quantum technology.