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**Platinum micromachining using femtosecond laser pulses**

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Hide Abstract –

Laser Induced Forward Transfer (LIFT) associated with ultrashort laser pulses enables high-resolution depositions while avoiding the transferred material degradation. In this work, Platinum thin films were used as donor material for fs-LIFT, employing a fs-laser centered at 1030 nm as the excitation source. The deposition characteristics and the incubation effect were studied. It was observed that the depositions get homogeneous and well-defined for pulse energies on the order of 6  $\mu\text{J}$ .