Laser-initiated liquid-assisted microstructuring of surfaces

M. Ulmeanu and M. N. R. Ashfold
Laser Chemistry, Spectroscopy & Dynamics Group, School of Chemistry
University of Bristol, Cantock’s Close, Bristol BS8 1TS, UK

Abstract
This work will demonstrate the microstructuring of semiconductor surfaces i.e. Si using ultra-short duration laser pulses. Surface processing, which can be achieved by immersing the sample in any one of a several different organic liquids, relies on both far and near field optical effects. The processing methods employed in this work should be extendable to, for example, larger-scale fabrication of nanostructured semiconducting junctions and tissue engineering applications.

Literature reference:


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