

Laser nanopatterning of surfaces for mechanical applications

Leonardo Orazi – UniMORE

The use of the new ultrashort laser sources opens new interesting possibilities in patterning surfaces overcoming the diffraction limits through the control of the Laser Induced Periodic Surface Structures on both metallic and non-metallic materials. The new three wavelength laser facilities in UniMORE will be presented and the results for tribology application on different metallic alloys will be discussed.