



## Highlights

- The short-term adhesion of *Staphylococcus aureus* onto femtosecond laser textured surfaces of titanium was investigated
- The laser textured surfaces consist of Laser-Induced Periodic Surface Structures (LIPSS) and nanopillars
- The laser treatment enhances the hydrophilicity and the surface free energy of the material
- The laser treatment reduces significantly the adhesion of *Staphylococcus aureus* and biofilm formation
- Femtosecond laser surface texturing of titanium is a simple and promising method for endowing dental and orthopedic implants with antibacterial properties

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