

SHARK-SKIN-LIKE LASER STRUCTURED SURFACES

PTFE



Features

Optimized trapezoidal riblet design
Superfine structures on robust substrate
Set of 6 laser structured plates

Applications

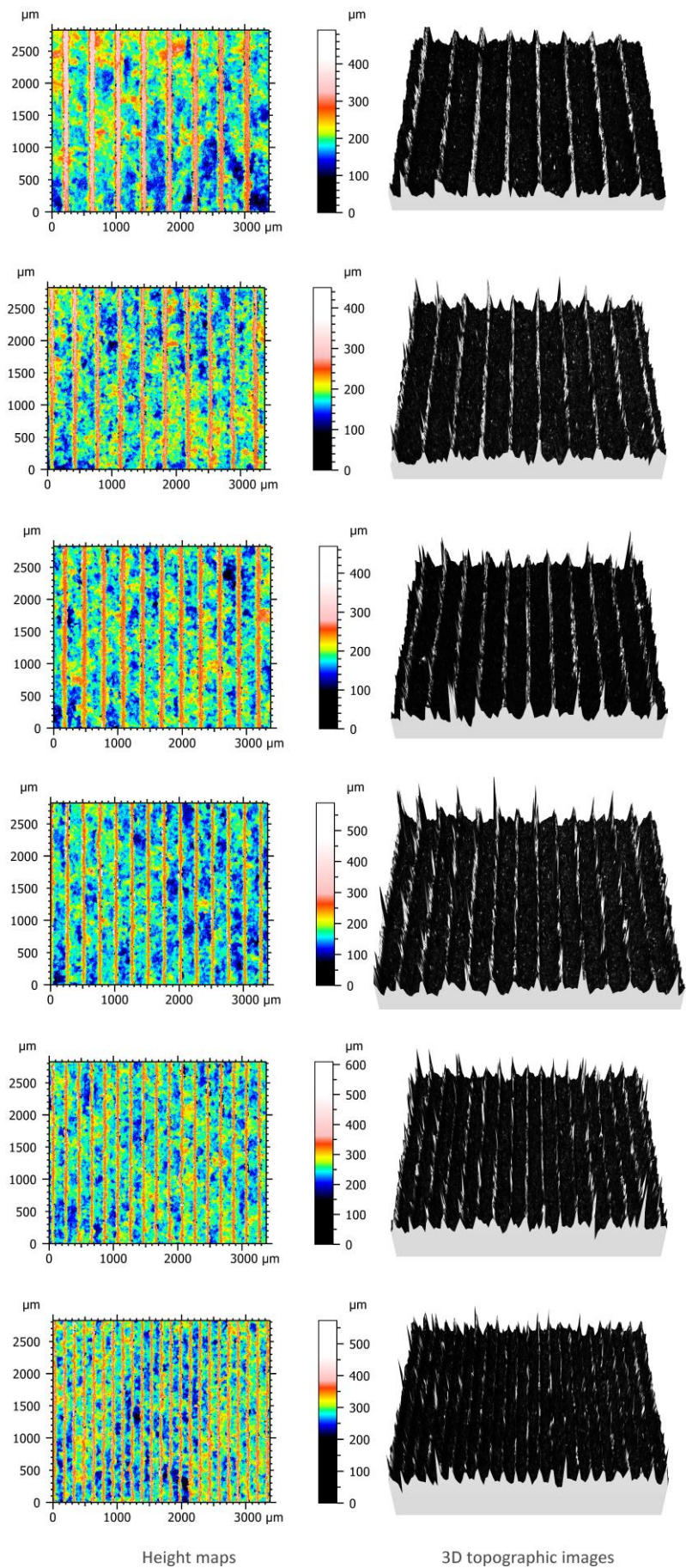
Drag reduction with liquids and gasses experiments
Directional wettability experiments

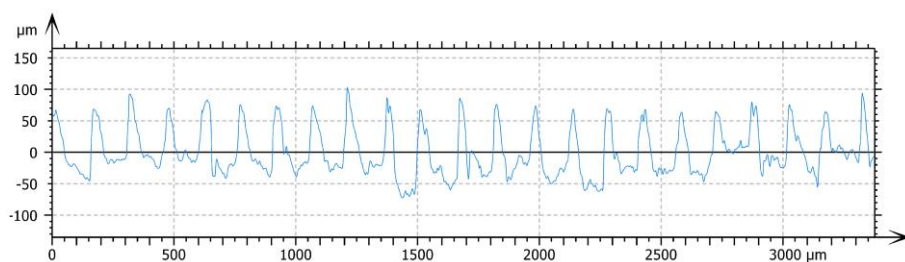
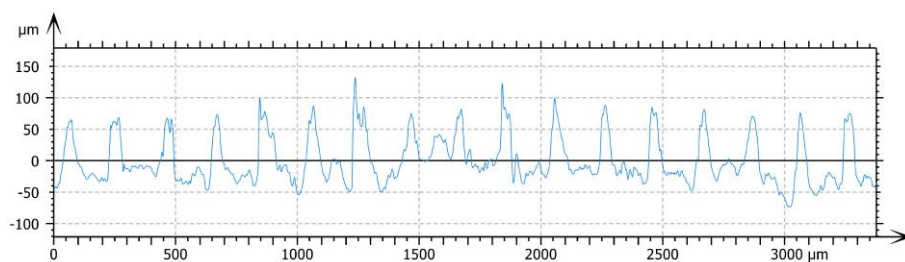
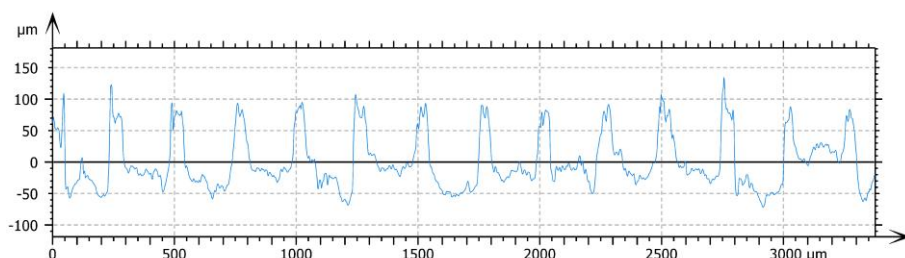
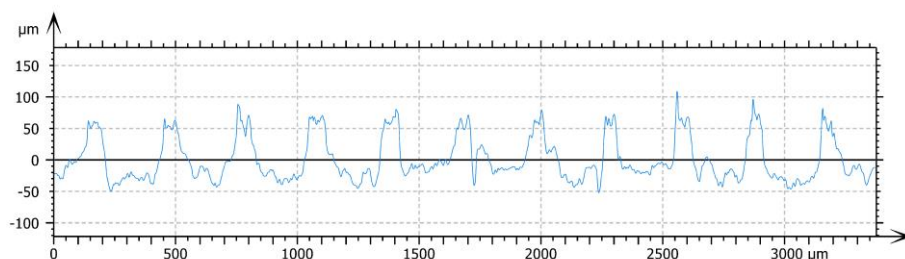
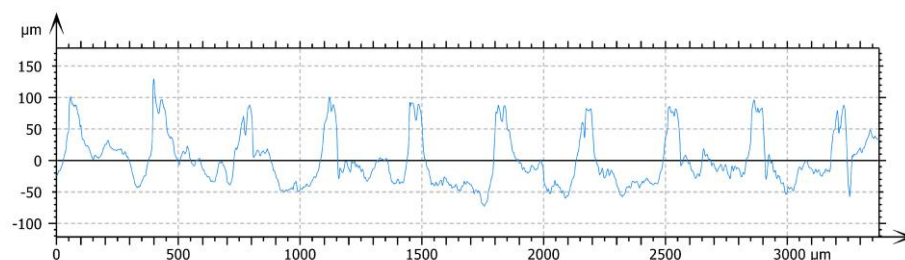
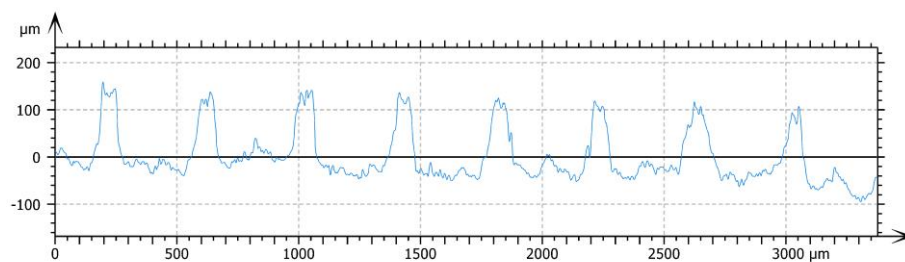
Overview

Bio-inspired functional surfaces are able to decrease friction with gases and fluids
The most well-known are shark-skin-like blade riblets
We offer bio-inspired surfaces structures fabricated by the ultrashort laser pulses on **PTFE**

Specifications

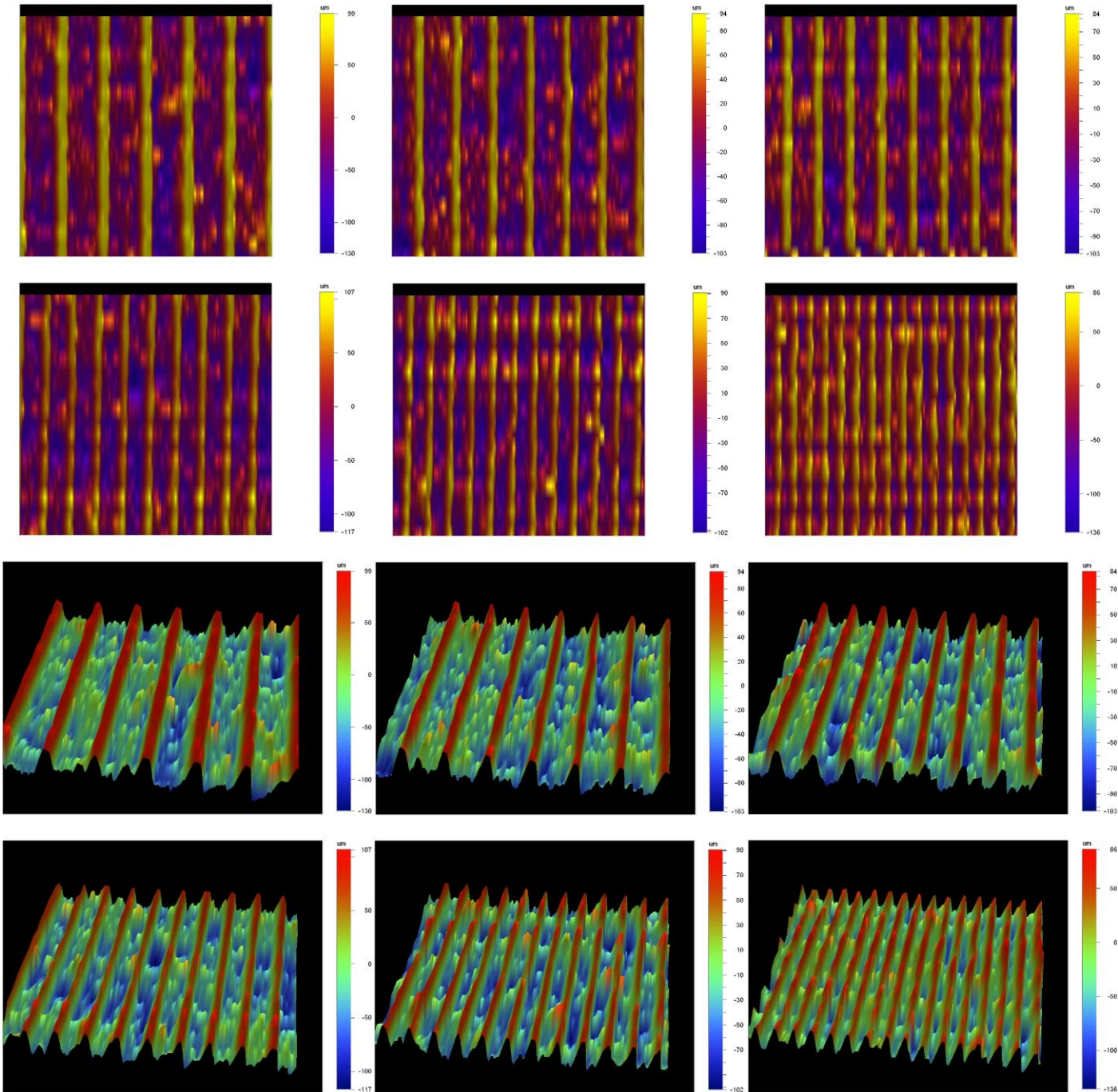
Serial number	LaTa_0013	LaTa_0014	LaTa_0015	LaTa_0016	LaTa_0017	LaTa_0018
Physical riblet period	400 μm	350 μm	300 μm	250 μm	200 μm	150 μm
Plate dimensions	50 mm $\times$ 50 mm $\times$ 5 mm					





Height cross-sections

Height maps



3D topographic images