

SHARK-SKIN-LIKE LASER STRUCTURED SURFACES

COPPER



Features

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

Applications

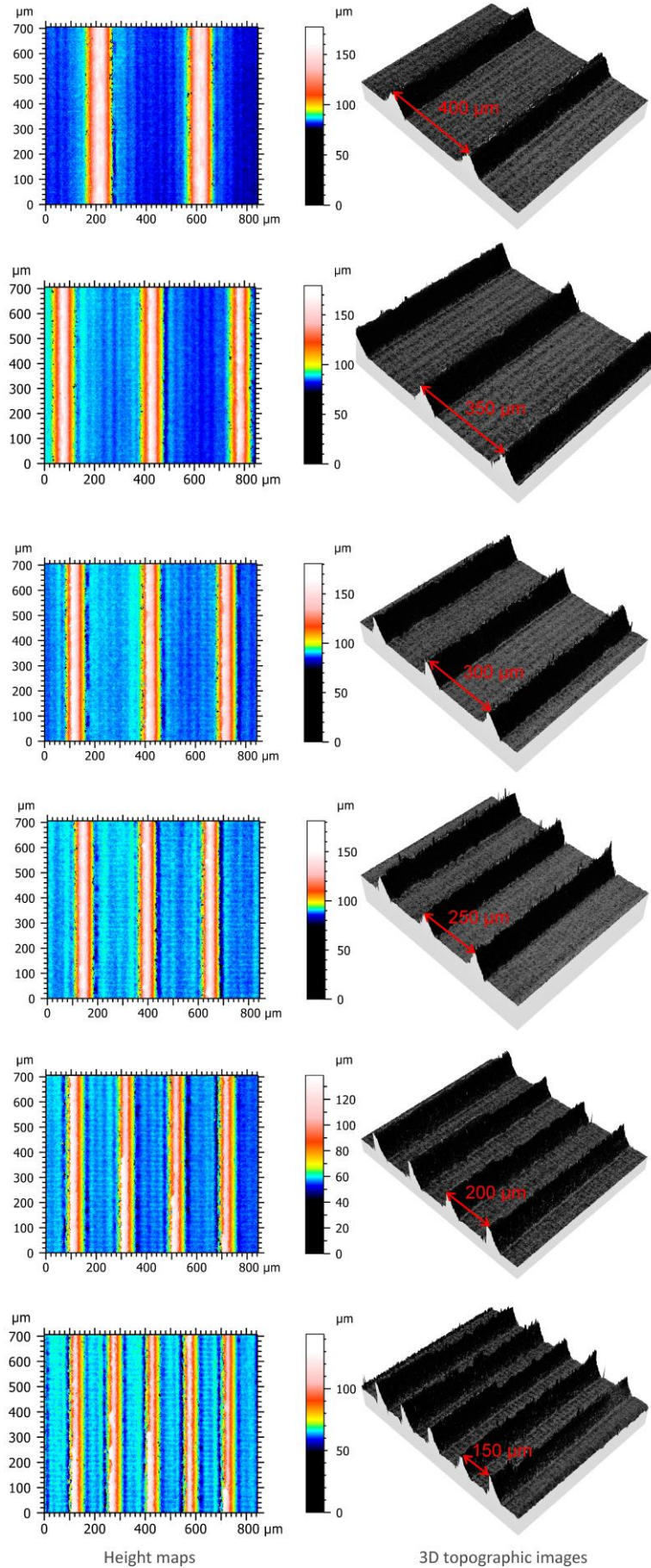
Drag reduction with liquids and gasses experiments
Directional wettability experiments

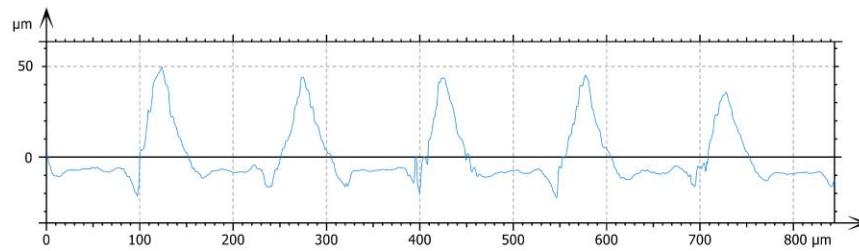
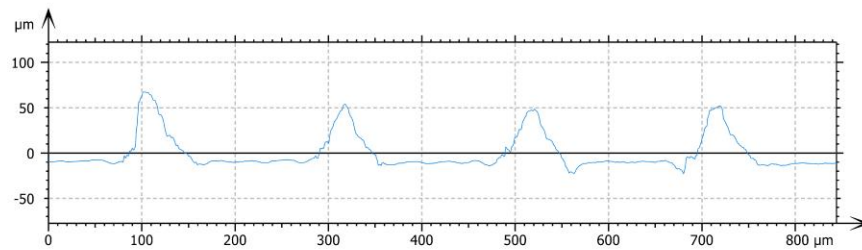
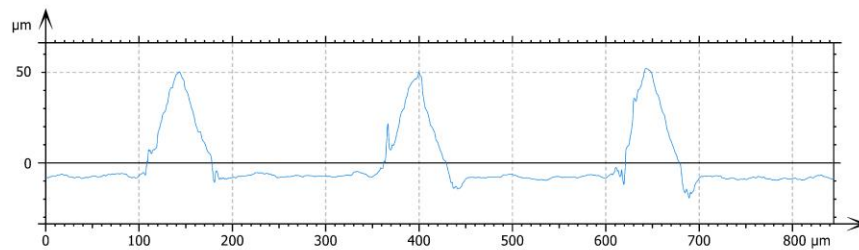
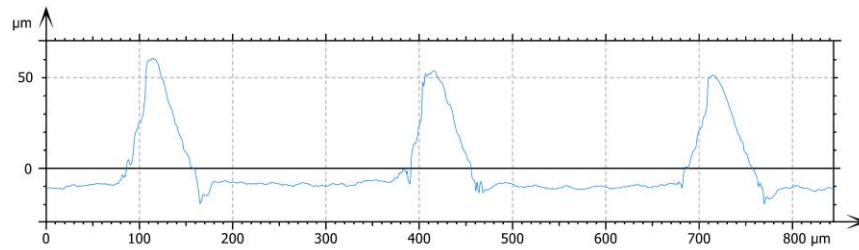
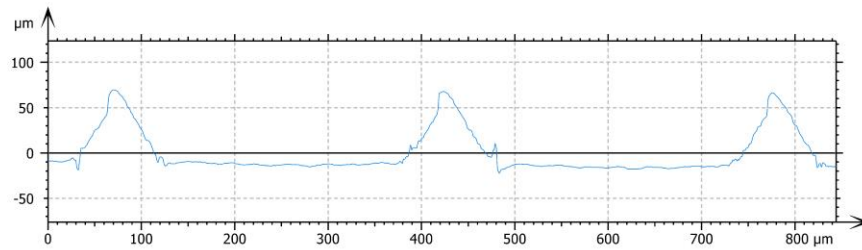
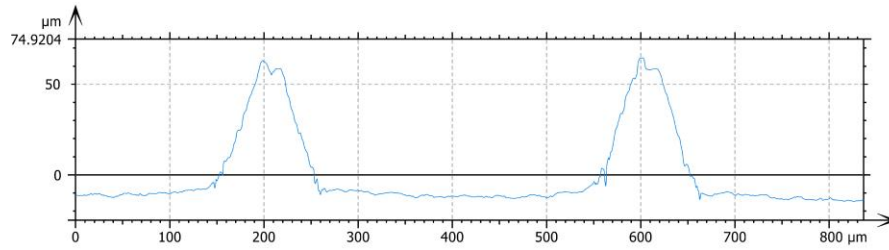
Overview

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 **copper**

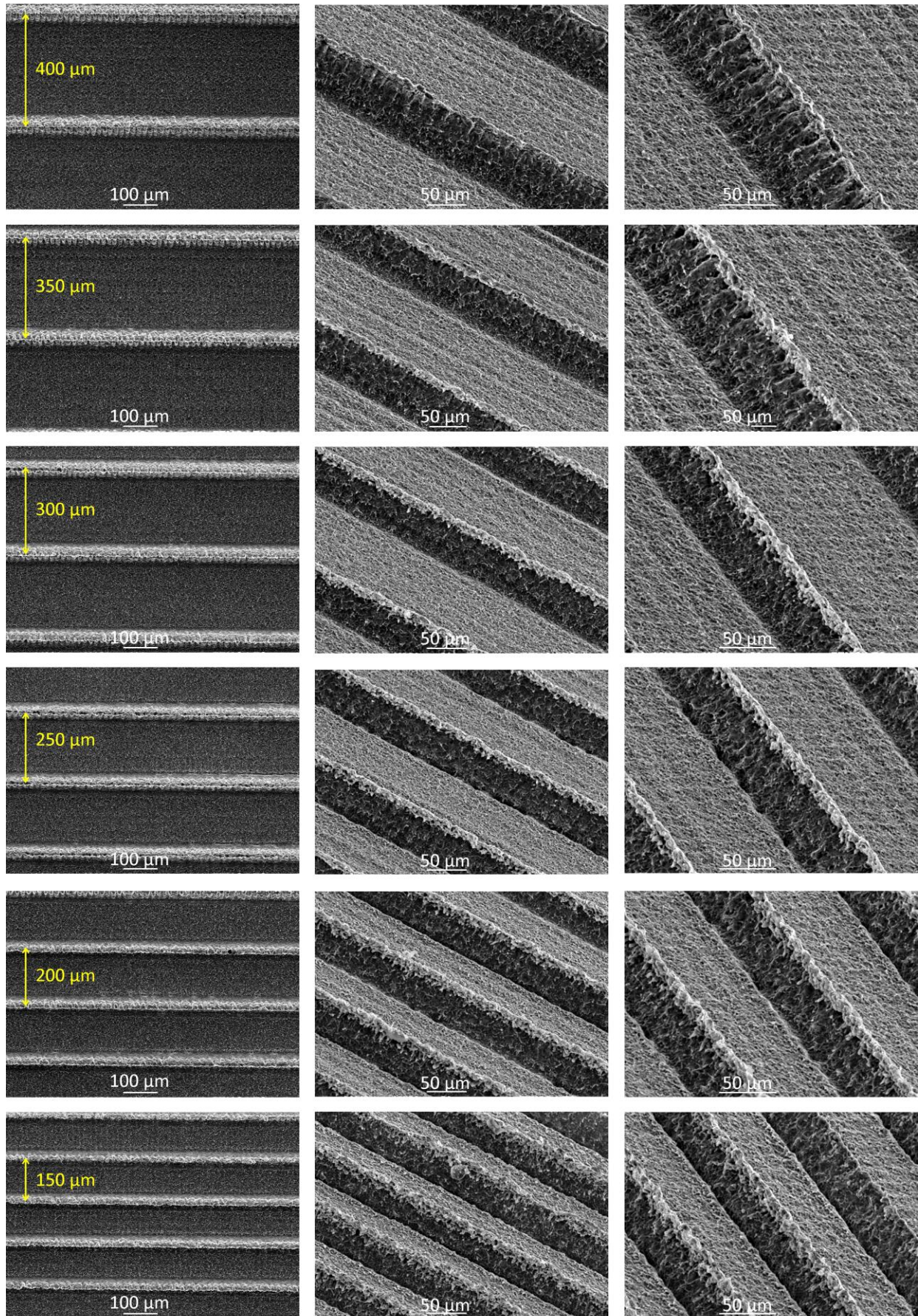
Specifications

Serial number	LaTa_0007	LaTa_0008	LaTa_0009	LaTa_0010	LaTa_0011	LaTa_0012
Physical riblet period	400 μm	350 μm	300 μm	250 μm	200 μm	150 μm
Plate dimensions	50 mm $\times$ 50 mm $\times$ 1 mm					





Height cross-sections



Scanning electron microscope (SEM) micrographs