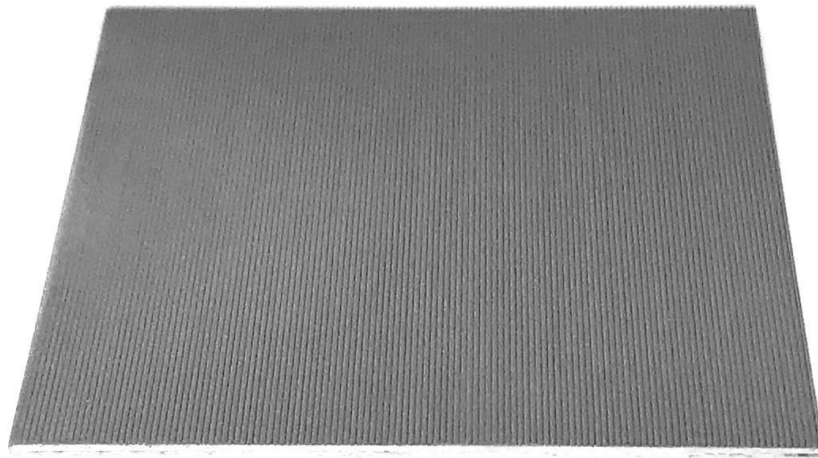


SHARK-SKIN-LIKE LASER STRUCTURED SURFACES

ALUMINIUM



Features

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

Applications

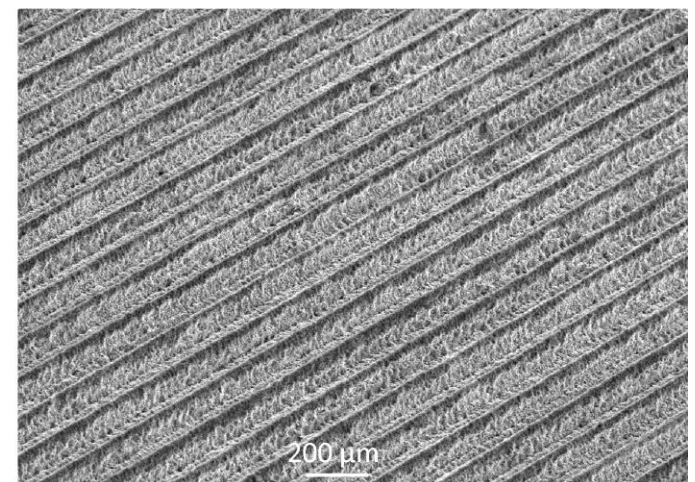
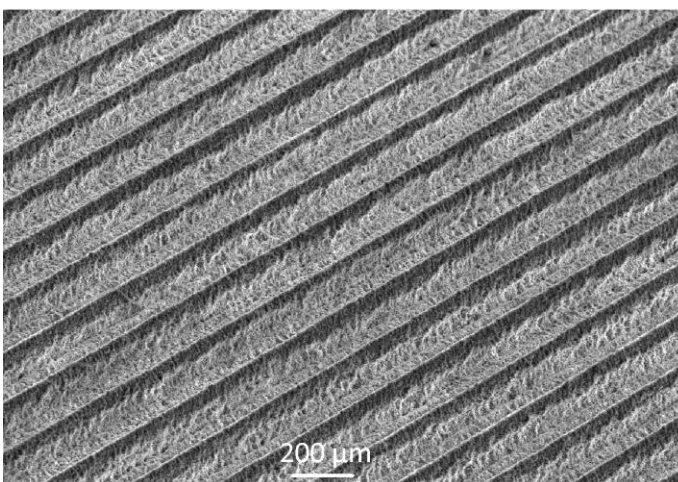
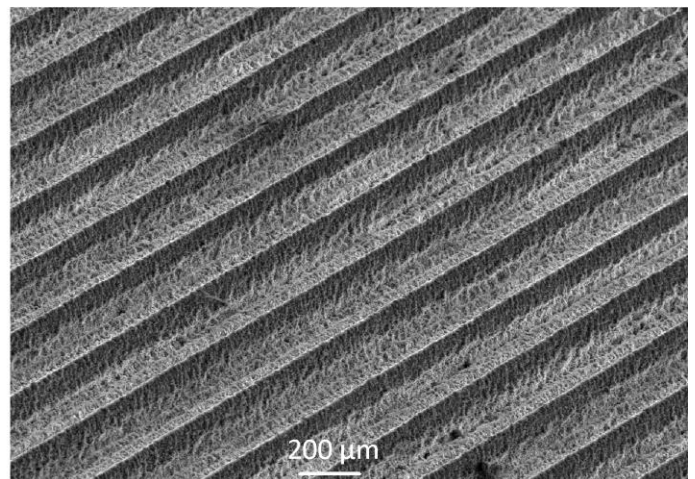
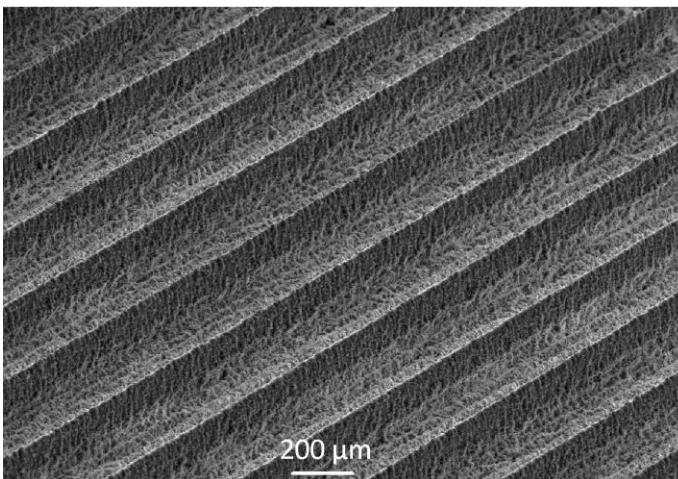
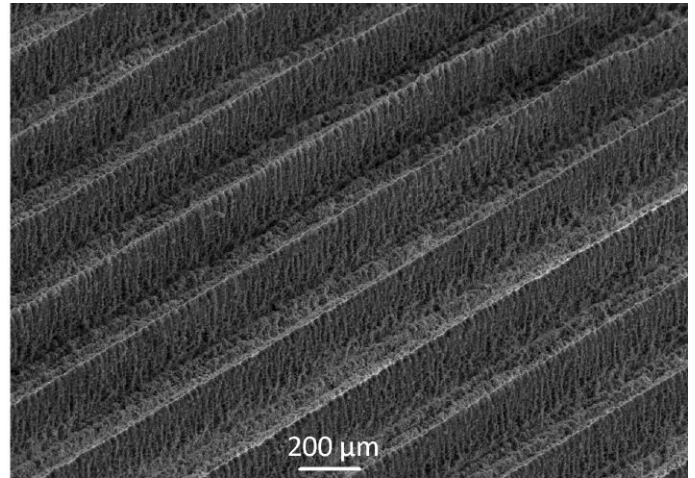
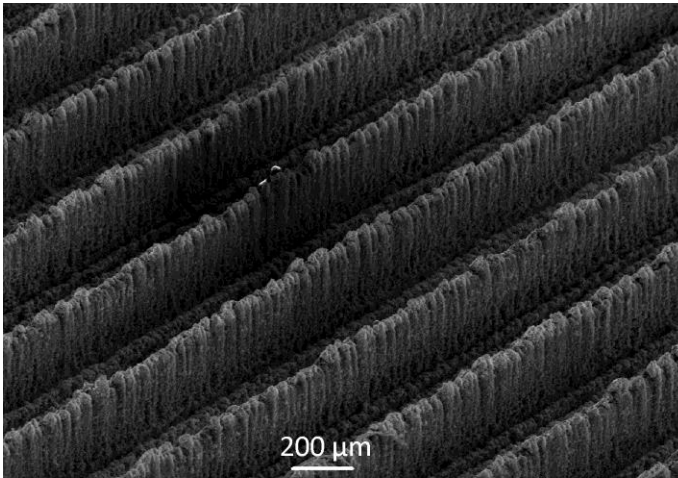
Drag reduction with liquids and gasses experiments
Directional wettability experiments

Overview

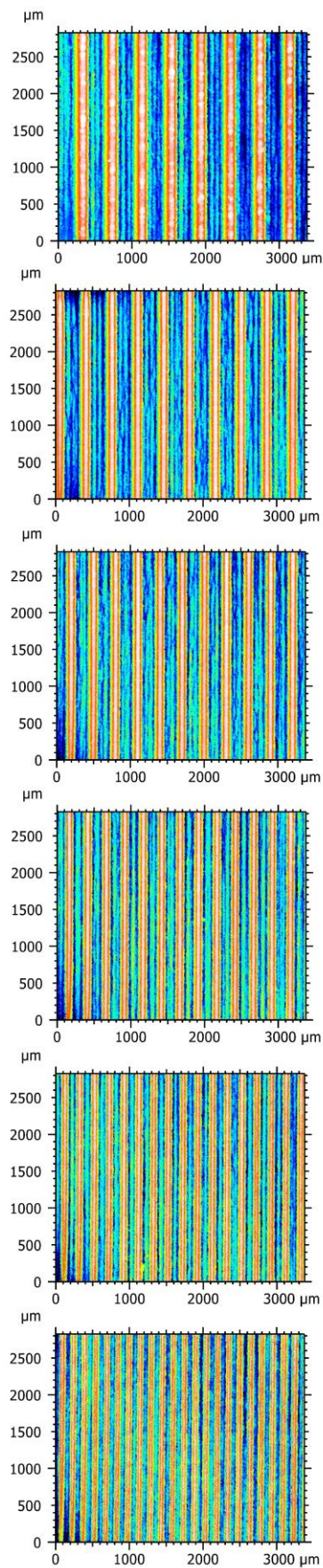
Bio-inspired functional surfaces are able to decrease friction with gases and fluids
The most well-known are shark-skin-like blade riblets
We offer bio-inspired surfaces structures fabricated by the ultrashort laser pulses on **aluminium**

Specifications

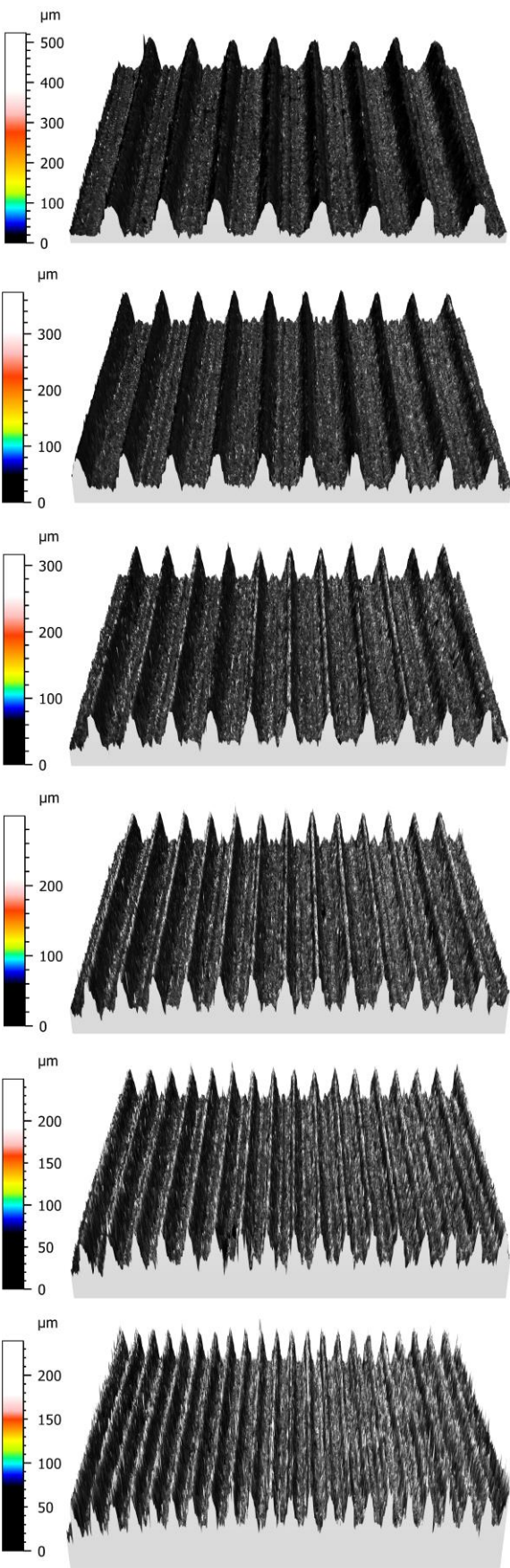
Serial number	LaTa_0019	LaTa_0020	LaTa_0021	LaTa_0022	LaTa_0023	LaTa_0024
Physical riblet period	400 μm	350 μm	300 μm	250 μm	200 μm	150 μm
Plate dimensions	50 mm $\times$ 50 mm $\times$ 1 mm					



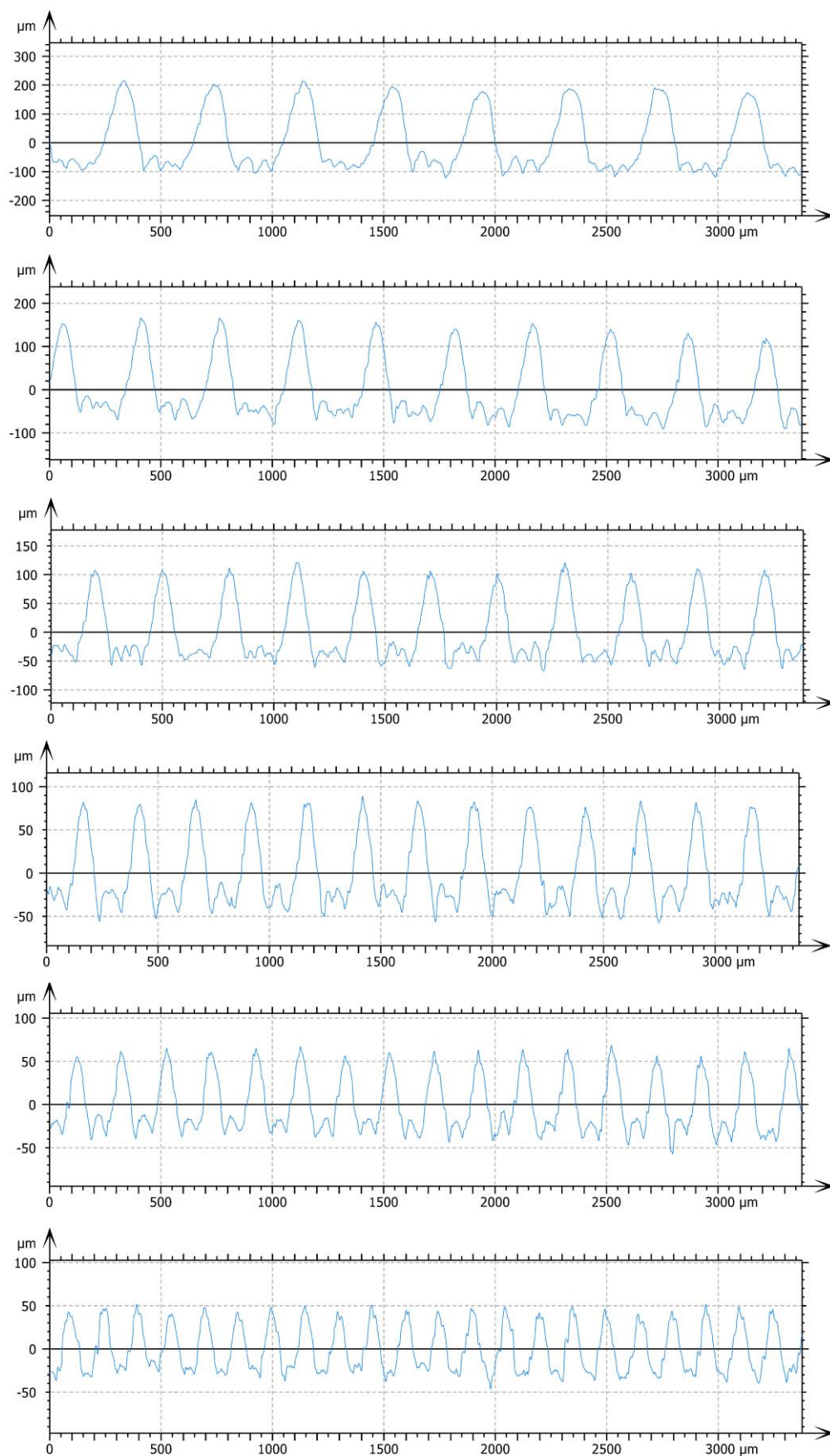
Scanning electron microscope (SEM) micrographs



Height maps



3D topographic images



Height cross-sections