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**THERMALLY STABILITY OF RARE EARTH
MICROSTRUCTURED SURFACES**
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PERHYDROPHOBIC

Motivation

Sustained Dropwise Condensation



Figure 1. Sustained dropwise condensation on a microstructured surface.

Figure 1 shows the sustained dropwise condensation on a microstructured surface. The image displays a series of water droplets on a surface with a microstructured pattern. The droplets are shown in various stages of growth and detachment, illustrating the process of sustained dropwise condensation. The surface is labeled as having a 3 mm scale.

Stable Surfaces

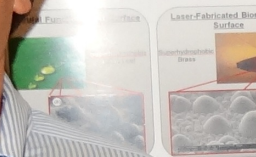


Figure 2. Laser-fabricated biomimetic surface.

Nano and

Spectra-Physics Sp

- 50 fs, 1 mJ maximum
- 1 kHz repetition rate
- 800 nm center wavelength



Figure 3. Laser Raster Scanning System.

on & Characterization



Figure 4. Surface after sputtering of ceria.

