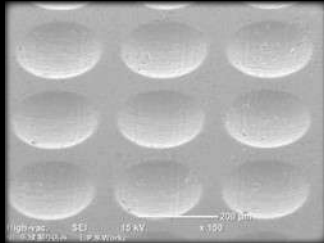


Laser Micro Texture Processing

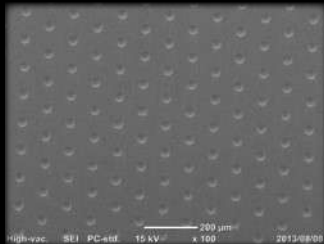
with an Ultra-short Pulse Laser

- Feature1 Possible to apply a systematic fine periodic structure at the micron order
- Feature2 High-quality processing with burr and the thermal impact suppressed to the minimum
- Feature3 Possible to support all materials (e.g., metals, resins, glass and ceramics)

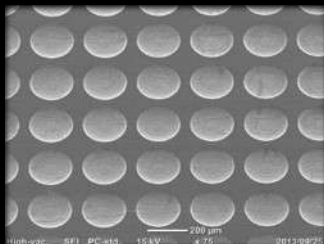
Dimple Processing



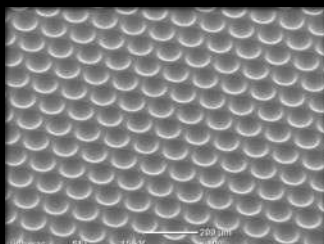
Material: Ni
Hole diameter: $\Phi 200 \mu\text{m}$
Depth: $30 \mu\text{m}$



Material: Cu
Hole diameter: $\Phi 35 \mu\text{m}$
Depth: $10 \mu\text{m}$

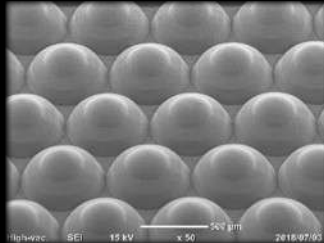


Material: Al
Hole diameter: $\Phi 200 \mu\text{m}$
Depth: $20 \mu\text{m}$

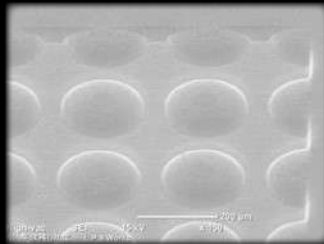


Material: SUS430
Hole diameter: $\Phi 95 \mu\text{m}$
Depth: $28 \mu\text{m}$

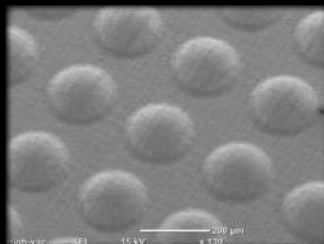
Embossing



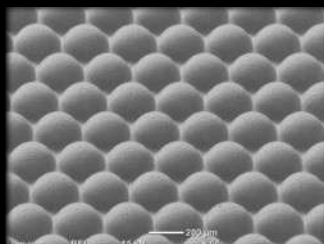
Material: SUS304
Diameter: $590 \mu\text{m}$
Height: $230 \mu\text{m}$



Material: Ni
Diameter: $200 \mu\text{m}$
Height: $30 \mu\text{m}$

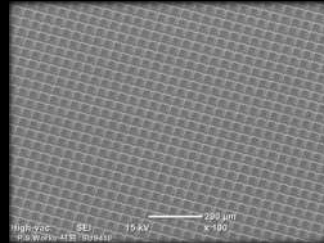


Material: SUS304
Diameter: $200 \mu\text{m}$
Height: $30 \mu\text{m}$

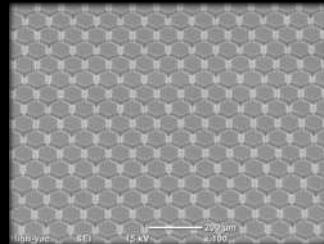


Material: Borosilicate glass
Diameter: $250 \mu\text{m}$
Height: $125 \mu\text{m}$

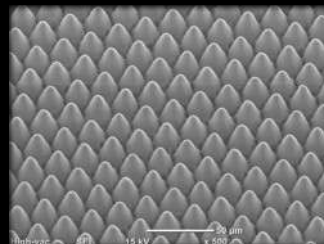
Lattice Groove Processing



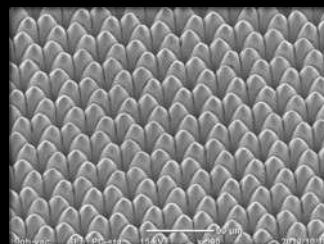
Material: SUS410
L/S: $20 \mu\text{m} / 20 \mu\text{m}$
Groove depth: $2 \mu\text{m}$



Material: SUS304
Side length: $50 \mu\text{m}$
Groove depth: $10 \mu\text{m}$

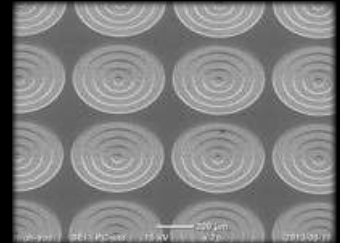


Material: SUS430
Height: $20 \mu\text{m}$
Pitch: $20 \mu\text{m}$

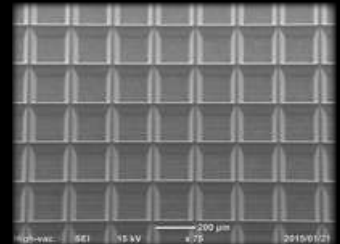


Material: SUS430
Side length: $15 \mu\text{m}$
Groove depth: $17 \mu\text{m}$

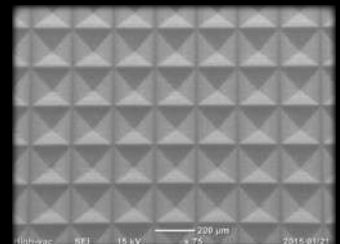
Three-dimensional Shapes



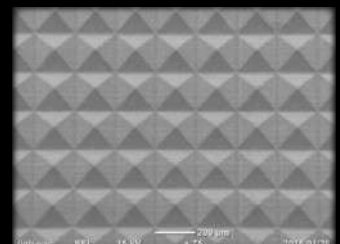
Material: Aluminum
Hole diameter: $50, 150, 250, 350, 450 \mu\text{m}$
Height dimensions: $6 \mu\text{m}$ for each stage



Material: SUS304
 \square dimensions: $200 \mu\text{m}$
Depth: $50 \mu\text{m}$



Material: SUS304
 \square dimensions: $190 \mu\text{m}$
Depth: $50 \mu\text{m}$



Material: SUS304
 \square dimensions: $190 \mu\text{m}$
Depth: $50 \mu\text{m}$



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