

Chemical solutions for soft nanoimprint lithography

Application examples

Micro-Nano-Fabrication
(microelectronics),
Texturing (hydrophobicity),
Optics, Decoration...

Ideal deposition process

Dip-coating
or Spin-coating
or Spray-coating

Ideal type of substrate

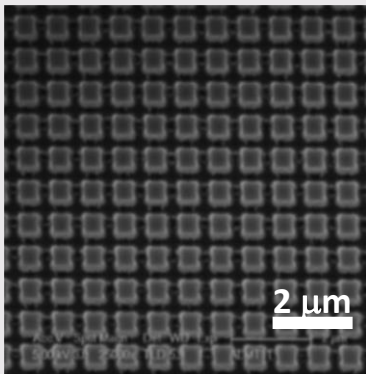
Any one

Layer properties:

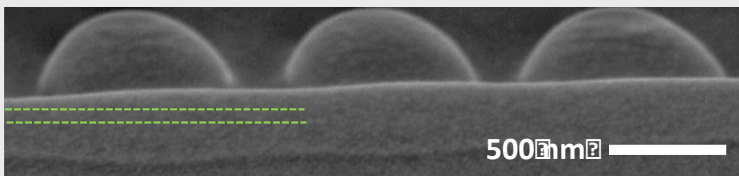
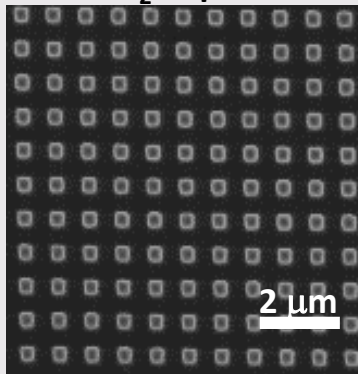
The soft nanoimprint lithography on sol-gel is an easy alternative to UV lithography and a low-cost alternative to electronic lithography. It requires a soft mold.

Composition: TiO_2 , SiO_2 ...
State: Dense or Mesoporous
Nanostructure: Periodicity < 50nm

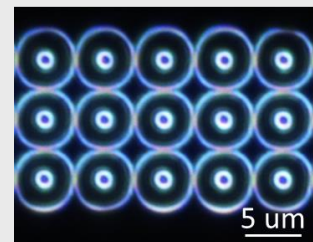
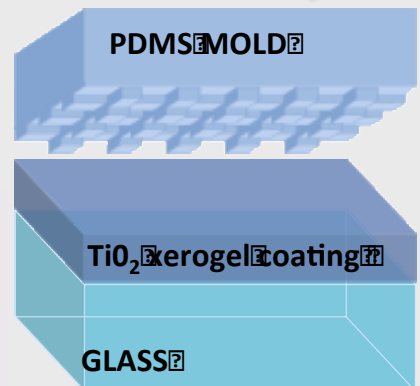
Master



TiO_2 Replica



T. Bottein et al. Adv. Funct. Mater. 2016



Nano-printed TiO_2 rings
(Dark-Field Microscopy)