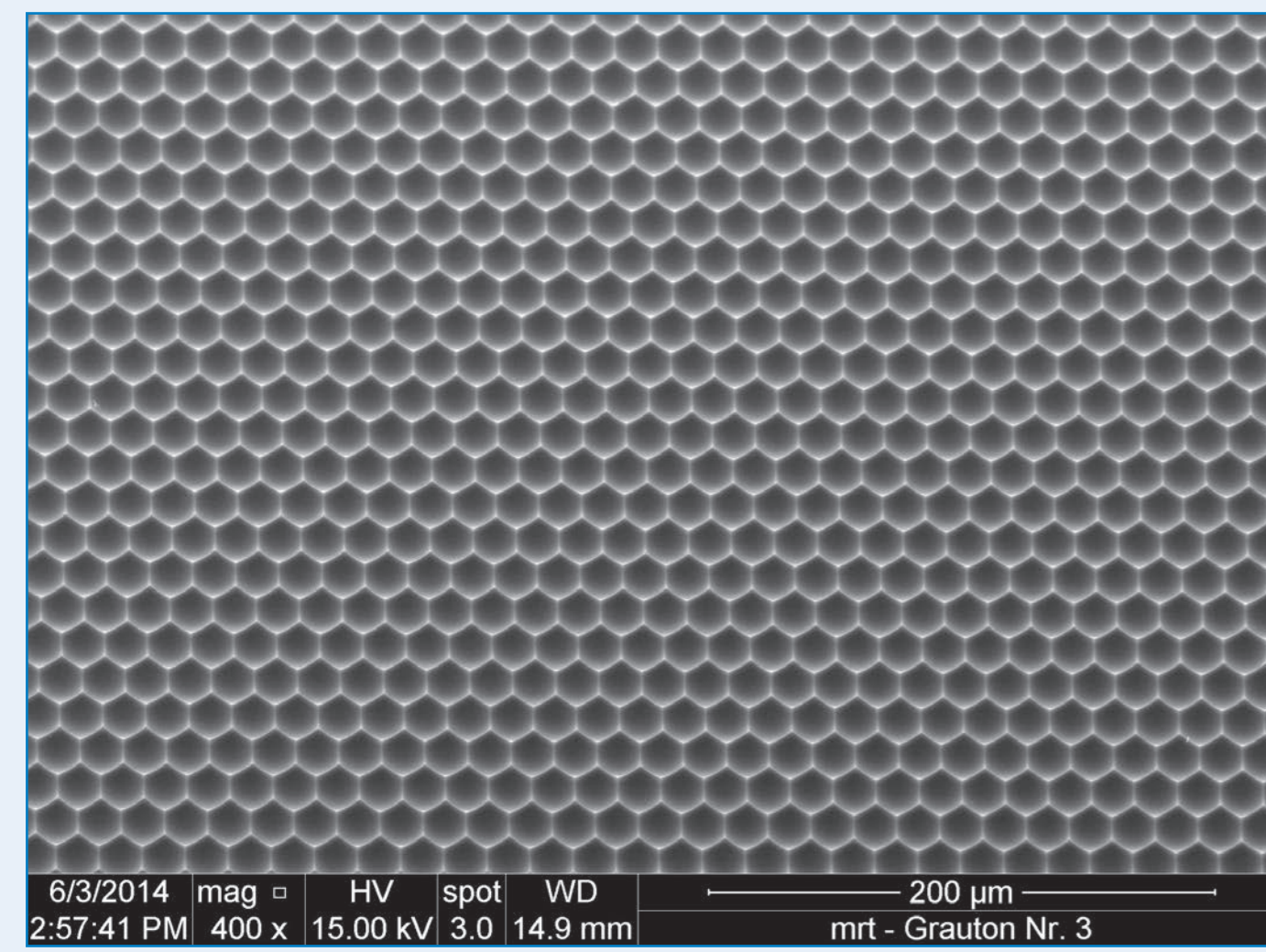
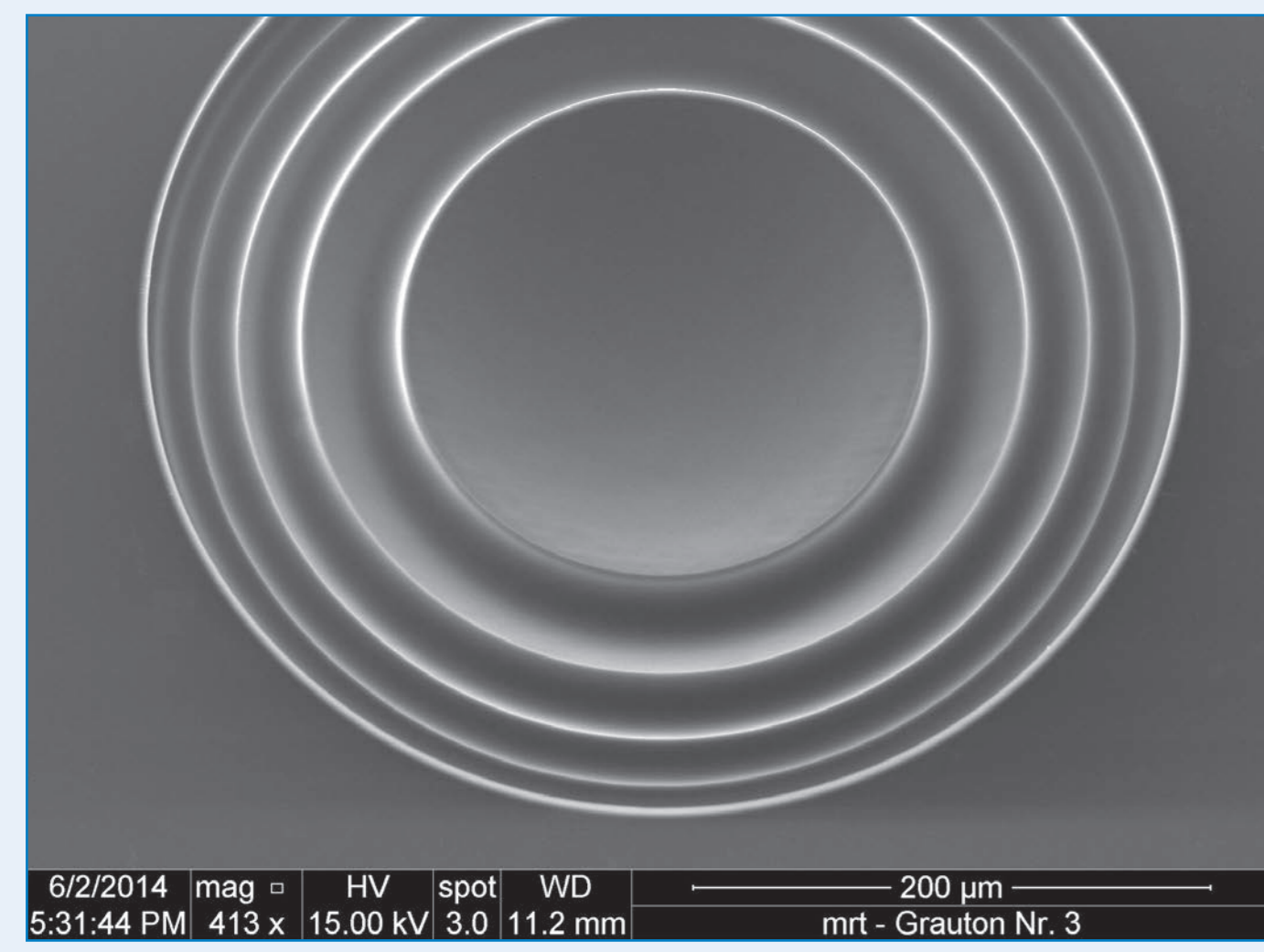


ma-P 1275G — Positive Greyscale Photoresist

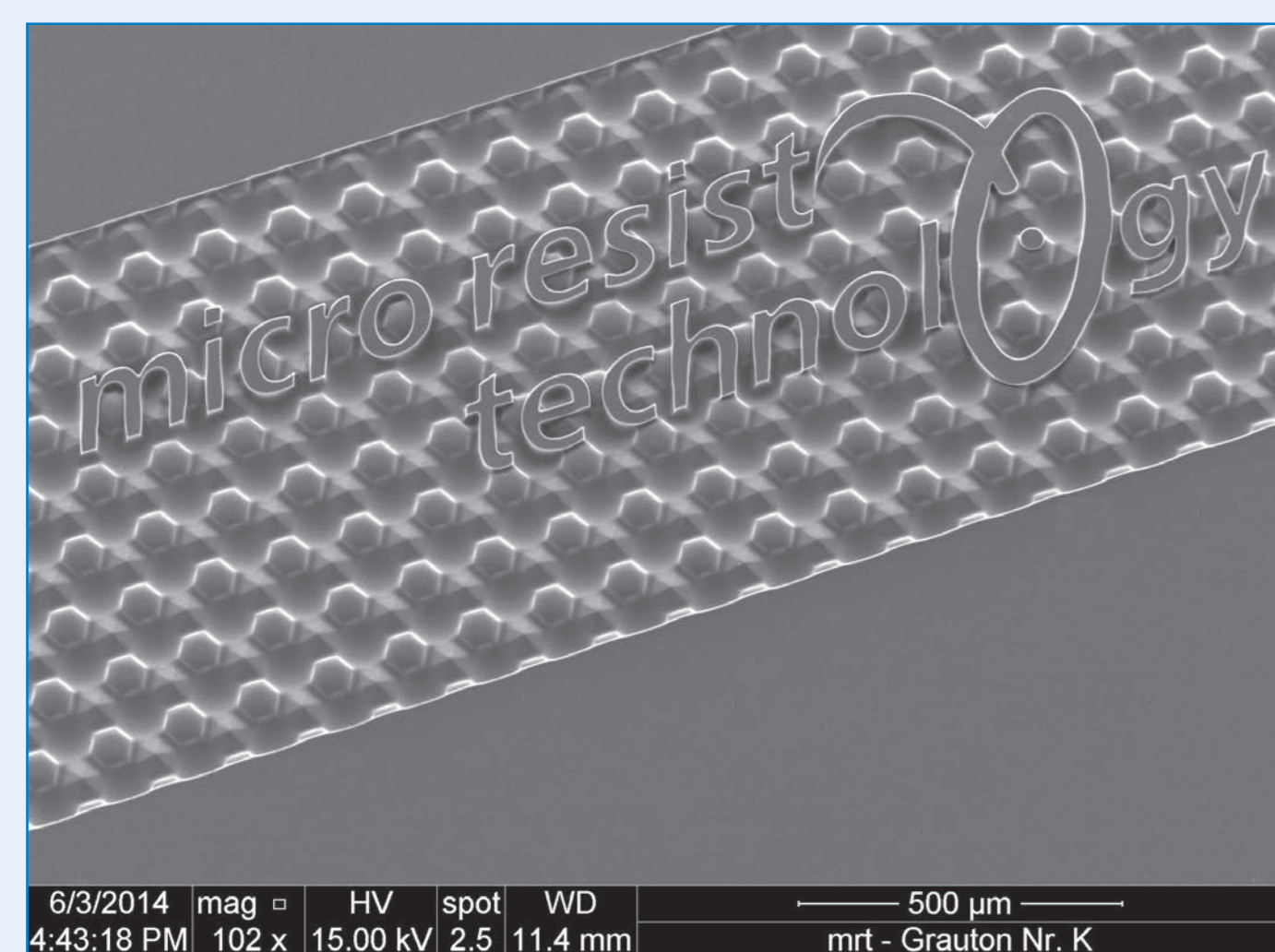
Thick Positive Photoresist for Greyscale lithography



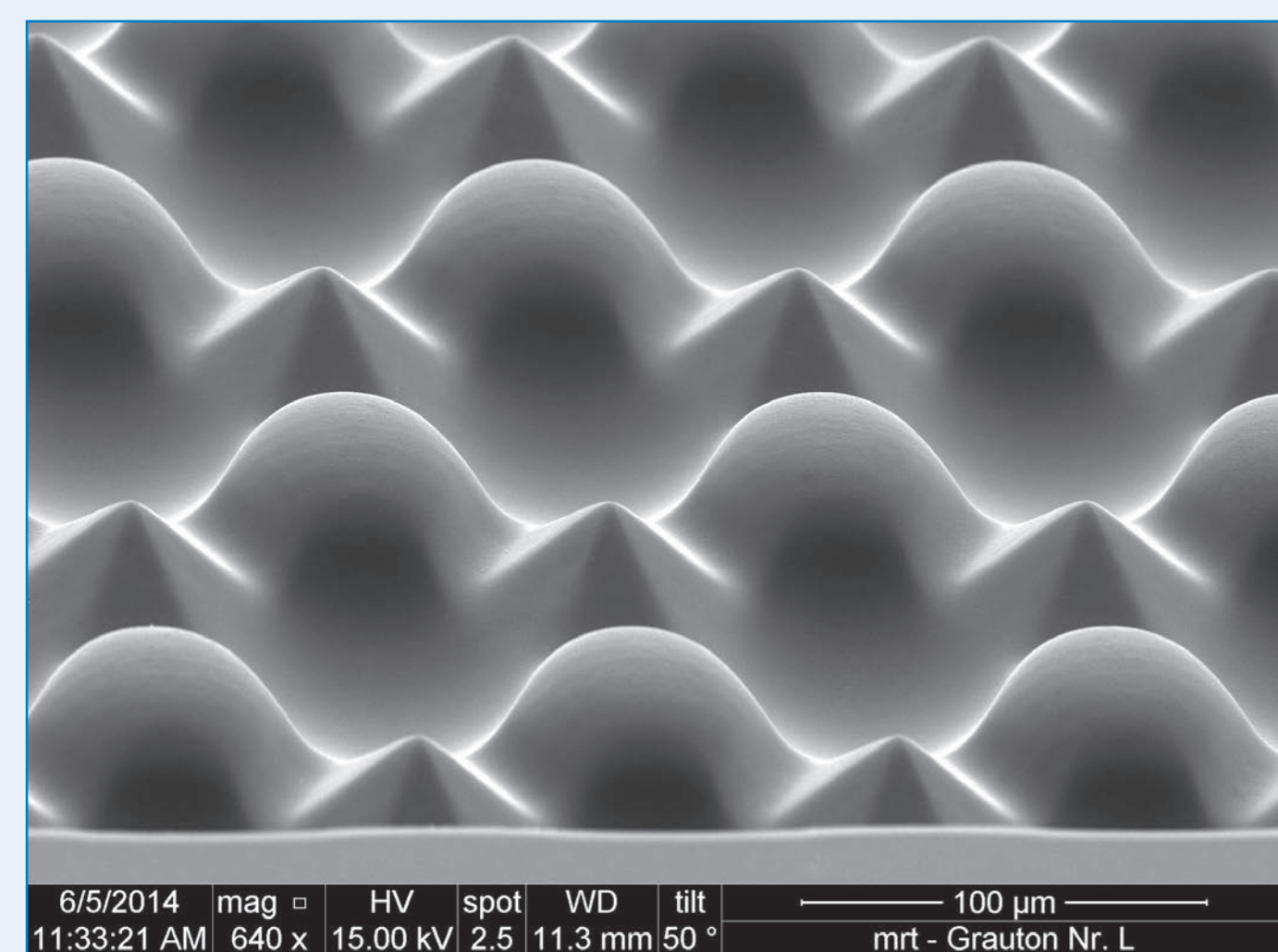
Hexagonal concave lenses, ~ 17 µm width



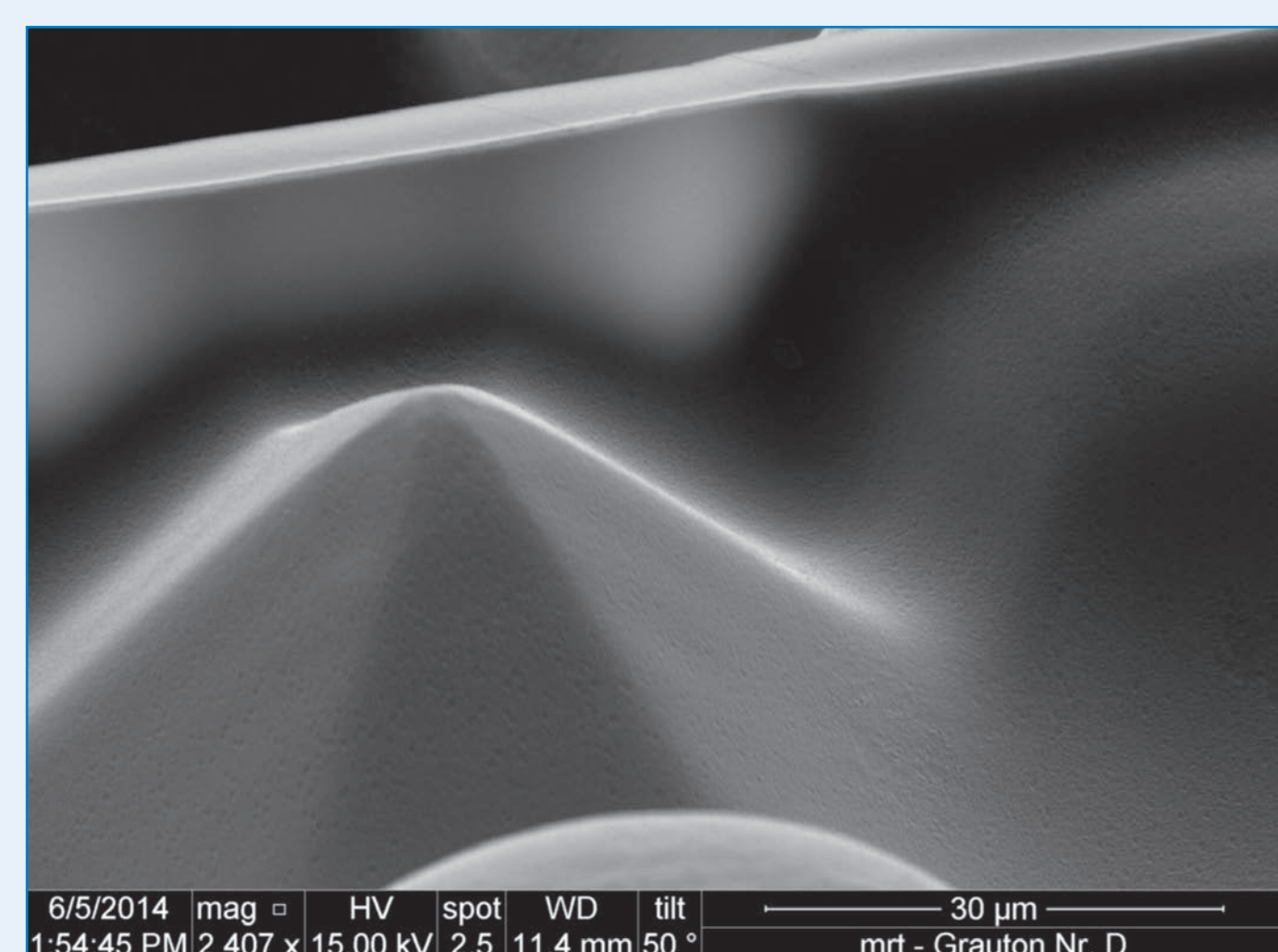
Fresnel lens



Convex and concave hexagonal lenses, 60 µm diameter



Convex and concave hexagonal lenses, 60 µm diameter – detailed view



Straight line among greyscale patterns
 All exposures with DWL66+ at 405 nm at Heidelberg Instruments

Unique features

ma-P 1275G is a thick positive tone photoresist specifically designed for the requirements of greyscale lithography.

- Film thickness up to 60 µm and higher
- High intensity laser exposure possible without outgassing
- 50 - 60 µm depth range of the patterns possible
- Aqueous alkaline development with TMAH based developers
- High stability in plating baths

Applications

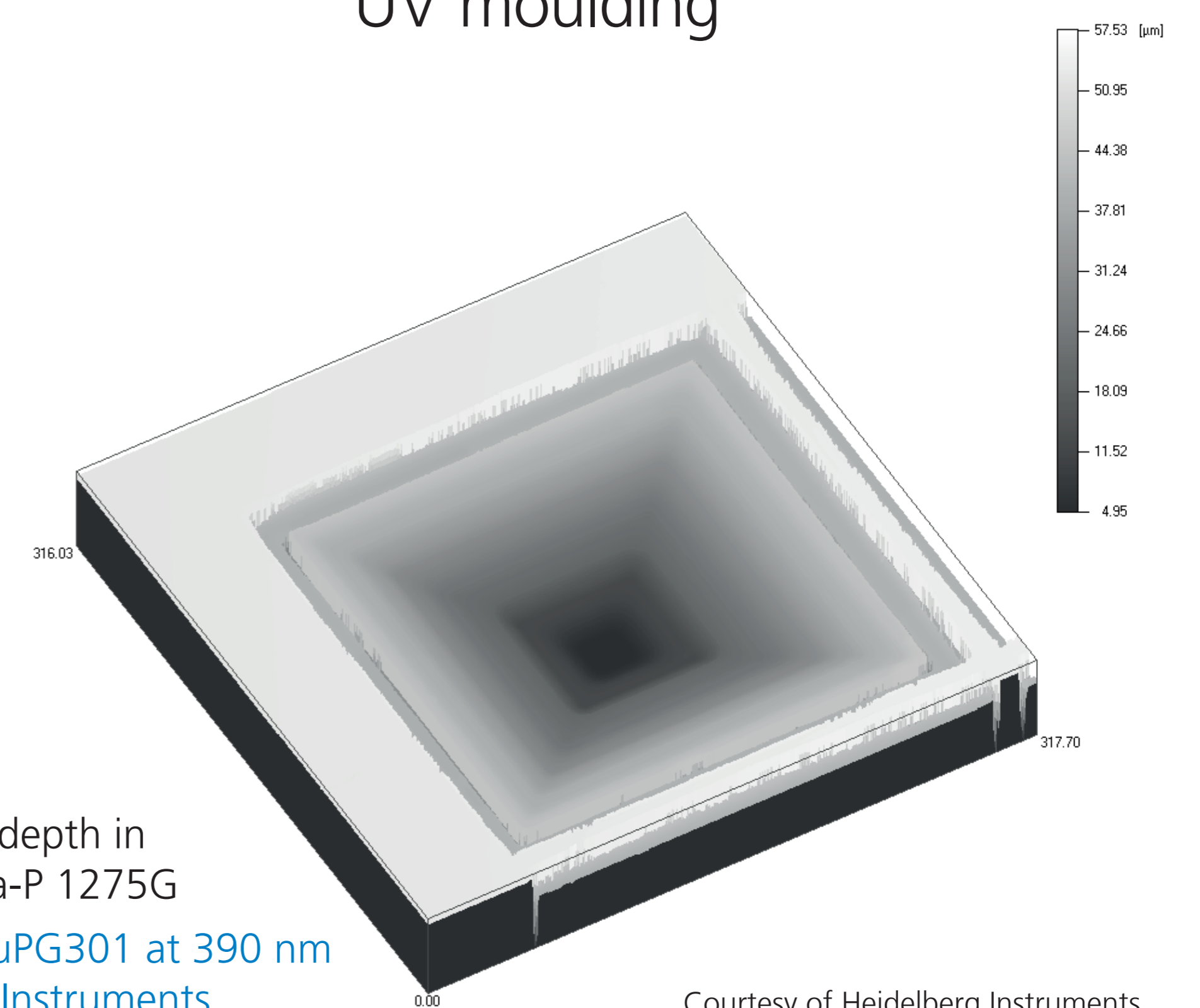
Use of manufactured 3D patterns in micro-optics, MEMS and MOEMS, displays

Pattern transfer by

- Electroplating
- Etching
- UV moulding

Technical data

Film thickness	µm	20	30	60
Spin coating	rpm	900	500	1000
Spin time	s	60	60	4



Process flow

