

Supplementary Materials: A Rapid Thermal Nanoimprint Apparatus through Induction Heating of Nickel Mold

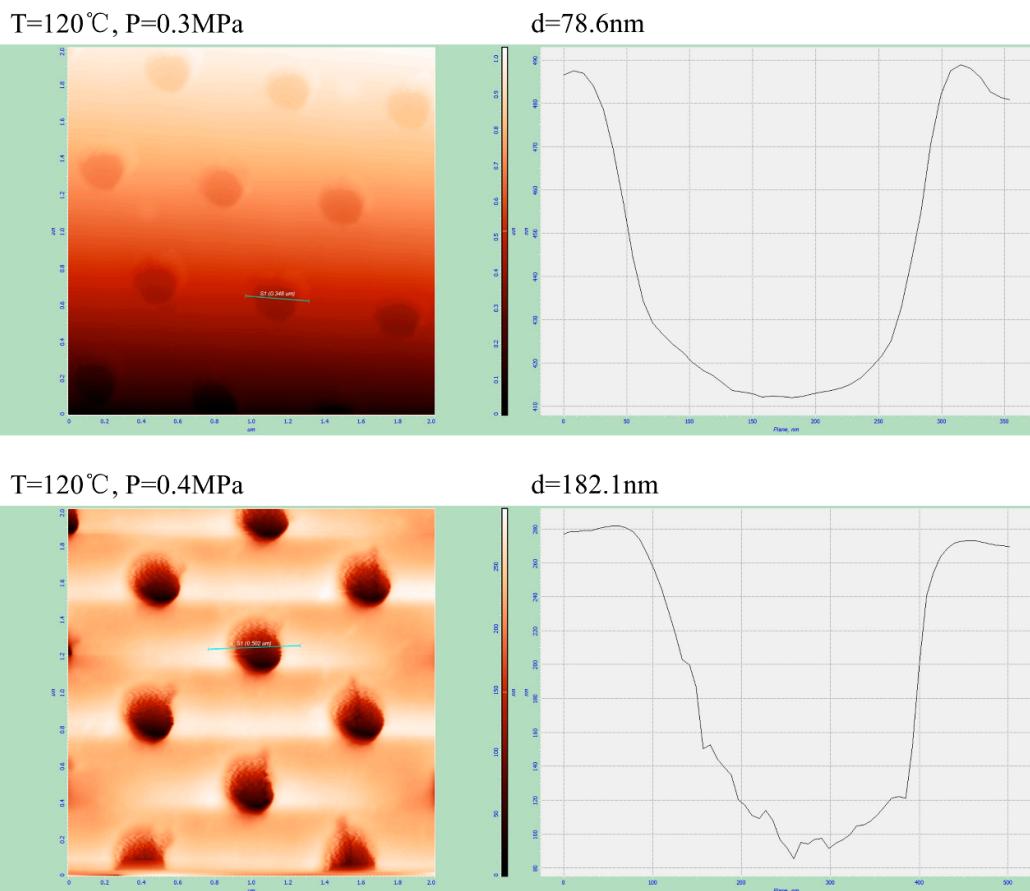
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Table S1. The depths of the imprinted poly(methyl methacrylate) (PMMA) nanoholes under different imprint pressure at an imprint temperature of 120 °C.

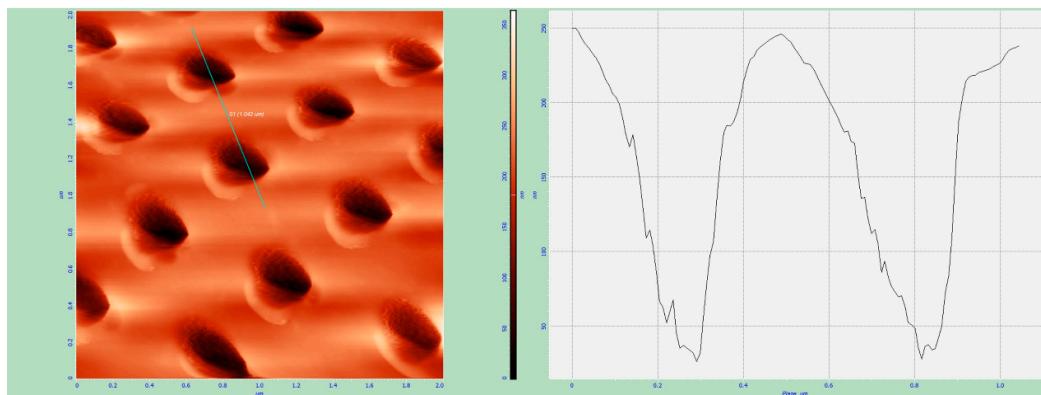
T = 120 °C, P (MPa)	0.2	0.3	0.4	0.5	0.6	0.7
d (nm)	0	78.6	182.1	230.4	246.8	248.3

Table S2. The depths of the imprinted PMMA nanoholes under different imprint temperature at an imprint pressure of 0.5 MPa.

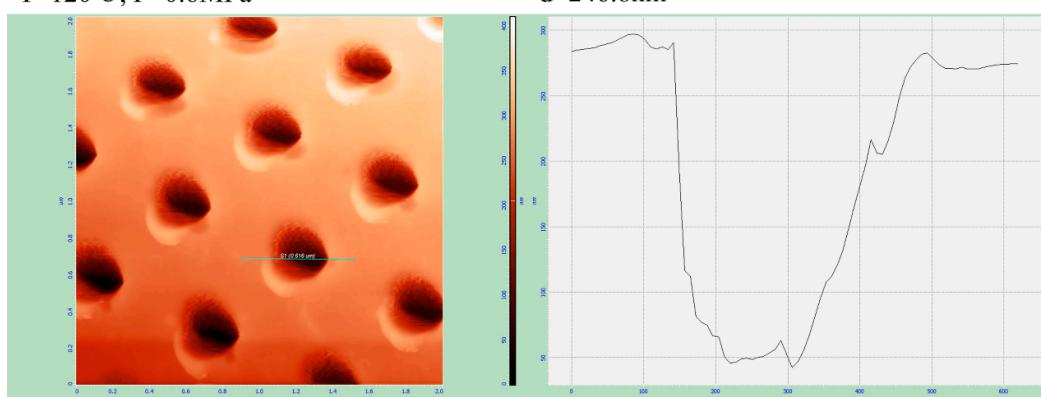
P = 0.5 MPa, T (°C)	100	110	120	130	140
d (nm)	50.2	69.3	230.4	248.5	249.8



T=120 °C, P=0.5MPa



T=120 °C, P=0.6MPa



T=120 °C, P=0.7MPa

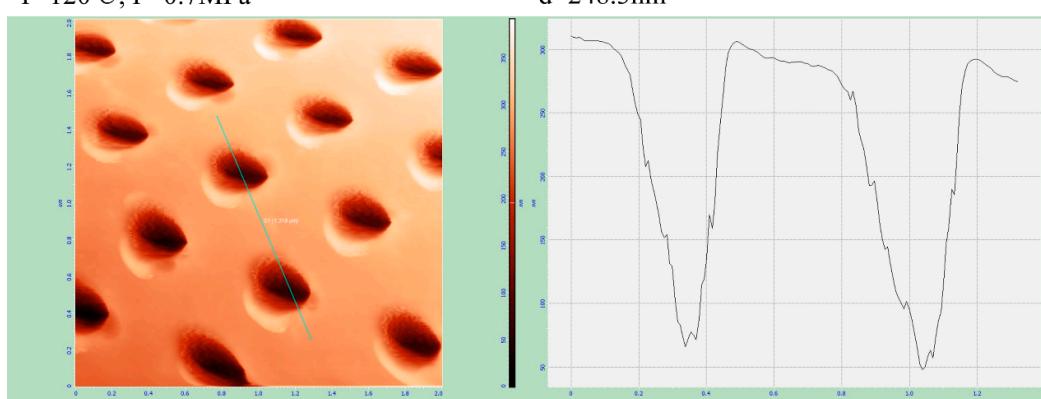
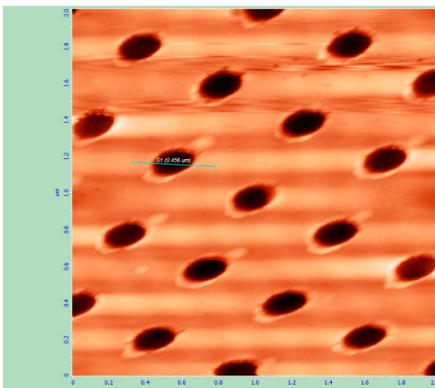


Figure S1. Morphological characterizations of the imprinted poly(methyl methacrylate) (PMMA)sheets under different imprint pressure by AFM.

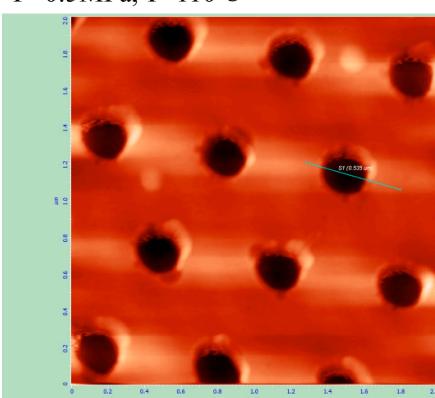
P=0.5MPa, T=100 °C



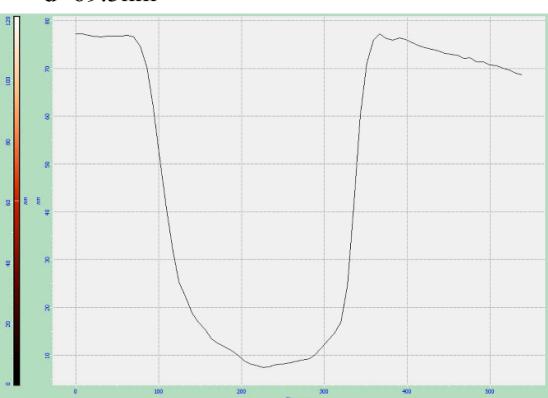
d=50.2nm



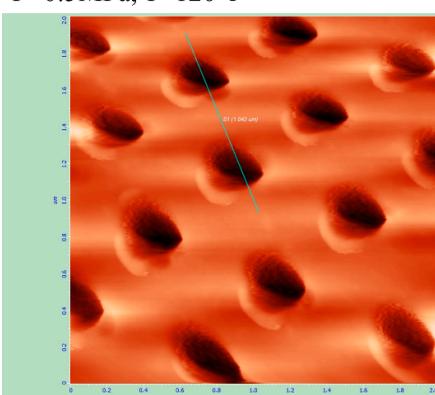
P=0.5MPa, T=110 °C



d=69.3nm



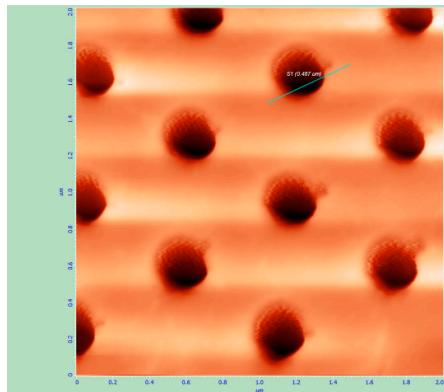
P=0.5MPa, T=120 °C



d=230.4nm



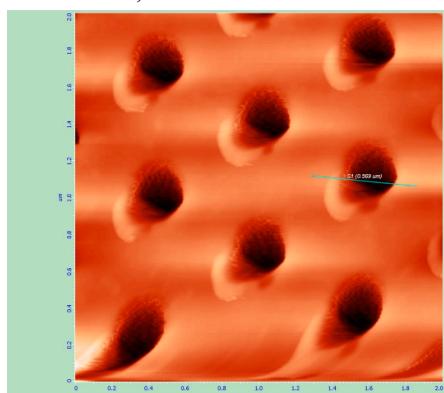
P=0.5MPa, T=130°C



d=248.5nm



P=0.5MPa, T=140°C



d=249.8nm



Figure S2. Morphological characterizations of the imprinted PMMA sheets under different imprint temperature by AFM.