Electronic Supplementary Material (ESI) for Nanoscale.

Supporting information

A general photoiniferter approach to the surface functionalization of acrylic and methacrylic structures written by two-photon stereolithography

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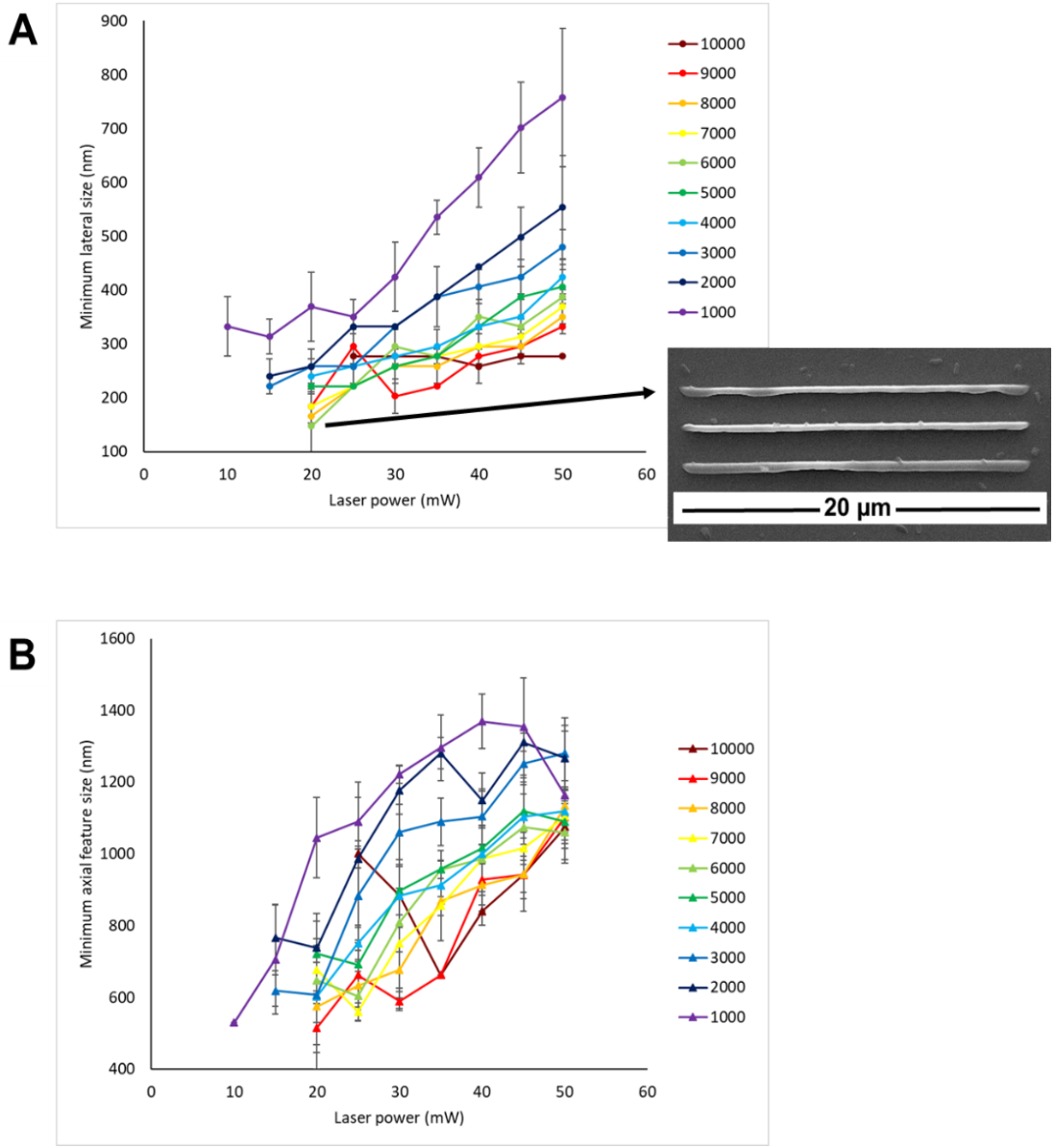

Figure S1. The minimum lateral feature size as a function of laser power at a fixed scan speed using the IP-Dip photoresin (n = 3). Outset: SEM image of triplicates of one-voxel-wide line with the smallest average minimum lateral feature size (147.7 ± 64.0 nm) generated using SS = 6000 µm/s, LP = 20 mW. Legend shows scan speed values expressed in µm/s.

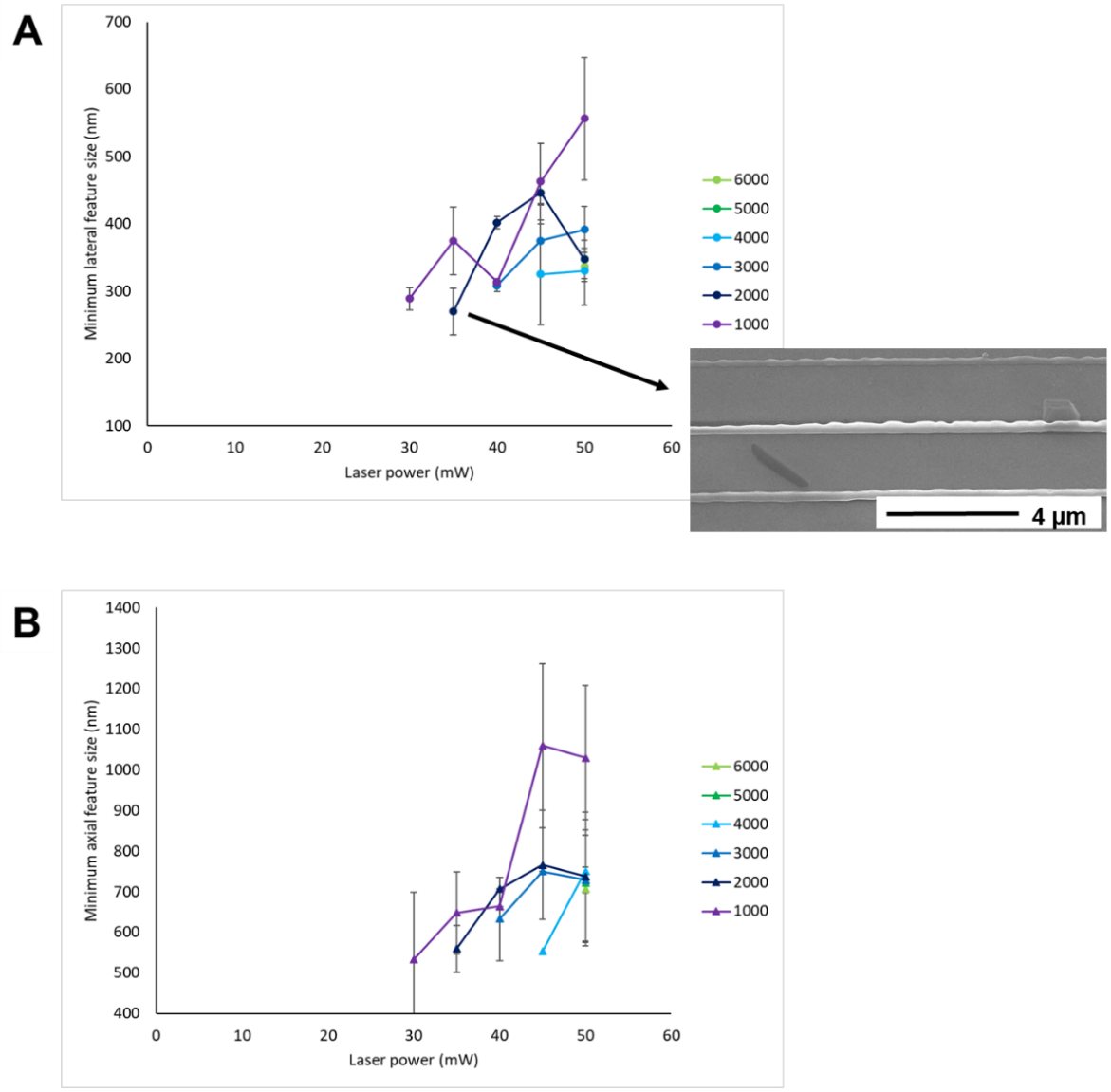

Figure S2. The minimum lateral feature size as a function of laser power at a fixed scan speed using the IP-S photoresin (n = 3). Outset: SEM images of triplicates of one-voxel-wide line with smallest (270.0 ± 34.8 nm) average minimum lateral feature size generated using SS = 2000 µm/s, LP = 35 mW. Legend shows scan speed values expressed in µm/s.

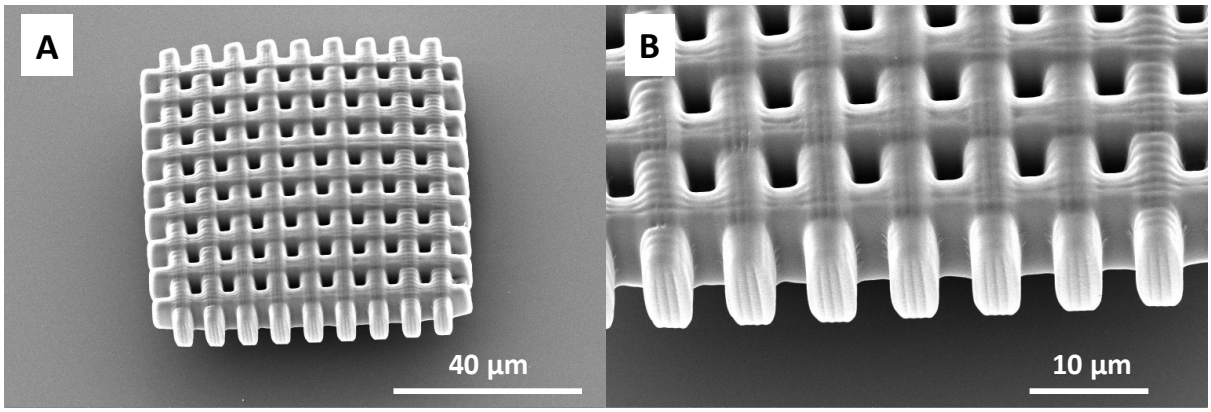

Figure S3. Representative SEM images of the printed woodpiles. (B) is a magnification of (A).

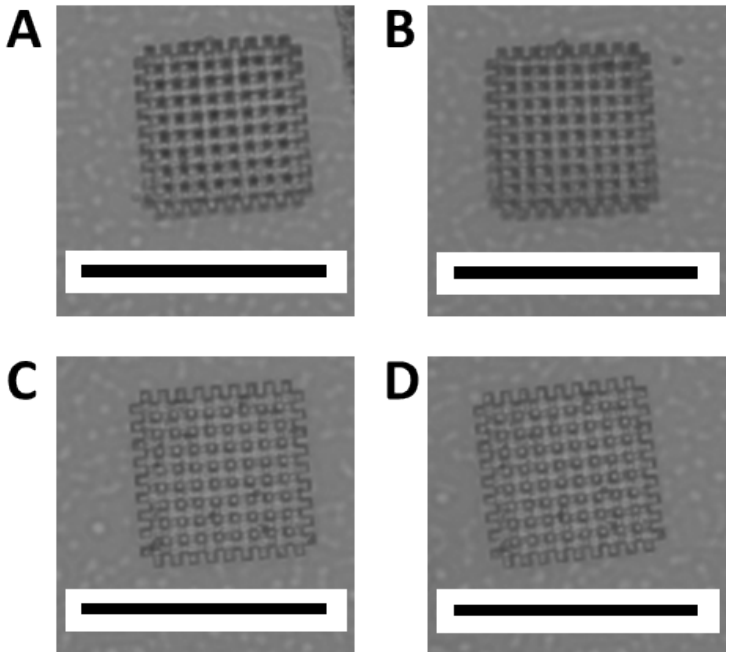

Figure S4. Brightfield microscopy image of bare microwoodpile (A) before and (B) after CDTPA-coupling and fluorescent polymer-grafting. Bare microwoodpile (C) before and (D) after fluorescent polymer-grafting without prior CDTPA-coupling. Scale bar = 100 µm.