

Supplementary Information

A photoactivatable light tracer[†]

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- Fabrication of arrays of microscaled pyramidsS2
- Simulation of electromagnetic radiation propagating in a microscaled pyramid.....S2
- Three-dimensional representations of the fluorescence distribution in a microscaled pyramidS2

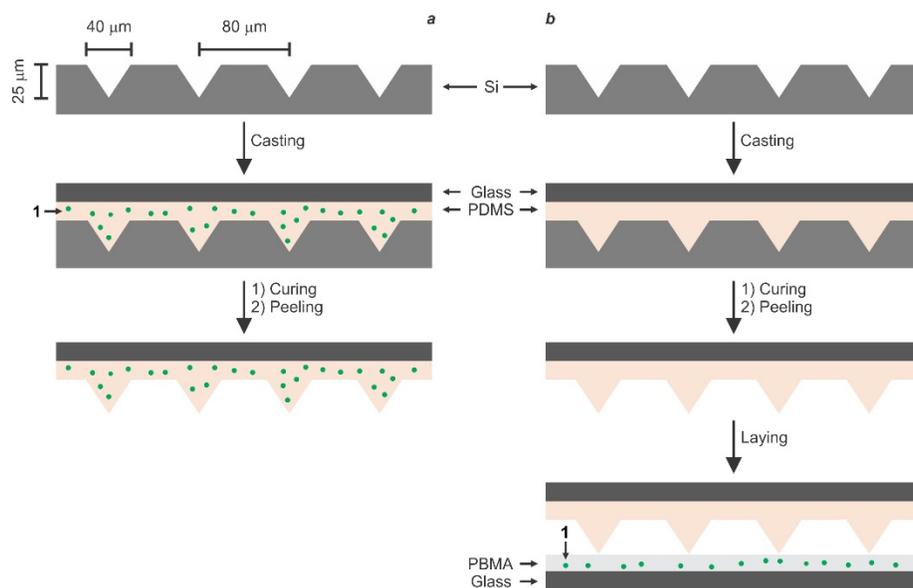


Fig. S1. Fabrication of doped PDMS pyramids (*a*) and undoped PDMS pyramids overlying a doped PBMA film (*b*).

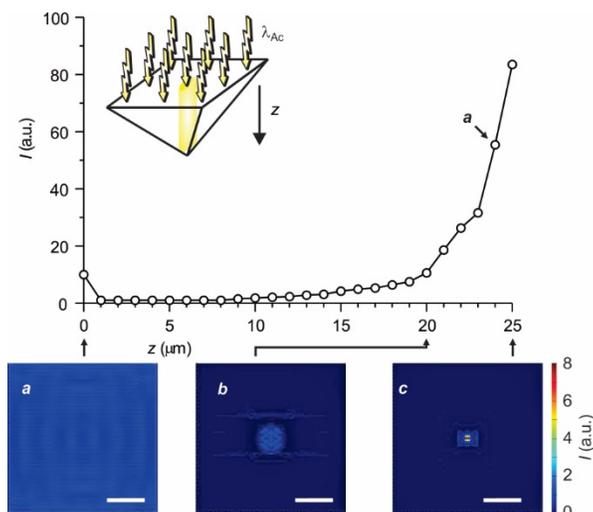


Fig. S2. FDTD simulations (scale bar = 5 μm) of the spatial distribution of the radiation intensity within three representative planes (*a-c*) orthogonal to the main axis of a PDMS pyramid together with the dependence (*d*) of the average radiation intensity on the position of the simulated plane relative to the pyramid base.

Web Enhanced Object

Video S1. Three-dimensional fluorescence distribution in a PDMS pyramid, doped with **1**, reconstructed from CLSM images recorded with a $^1\lambda_{\text{Ex}}$ of 514 nm ($^1\lambda_{\text{Em}}$ = 525–600 nm) by scanning the focal plane across the PDMS substrate towards the pyramid tip in steps of 1.33 μm .

Web Enhanced Object

Video S2. Three-dimensional fluorescence distribution in a PDMS pyramid, doped with **1**, reconstructed from CLSM images recorded, after activation (λ_{Ac} = 405 nm, 0.11 mW, 30 s), with a $^2\lambda_{\text{Ex}}$ of 633 nm ($^2\lambda_{\text{Em}}$ = 650–720 nm) by scanning the focal plane across the PDMS substrate towards the pyramid tip in steps of 1.33 μm .