

1 Electronic Supplementary Information (ESI) for Soft Matter

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4 **Free-floating hydrogel-based rafts carrying a microarray of**
5 **functional entities at fluid interfaces**

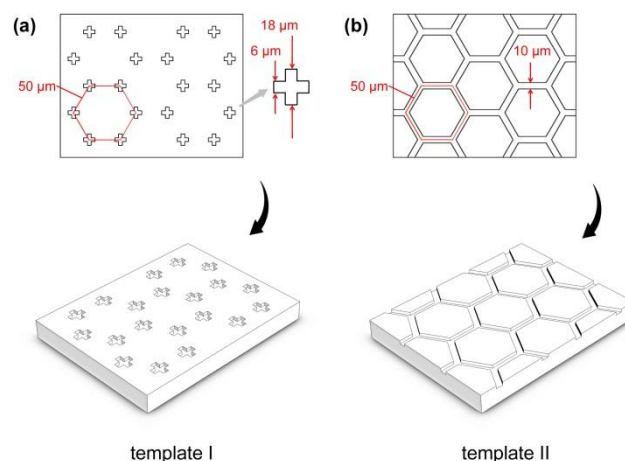
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1 Supplementary Figures

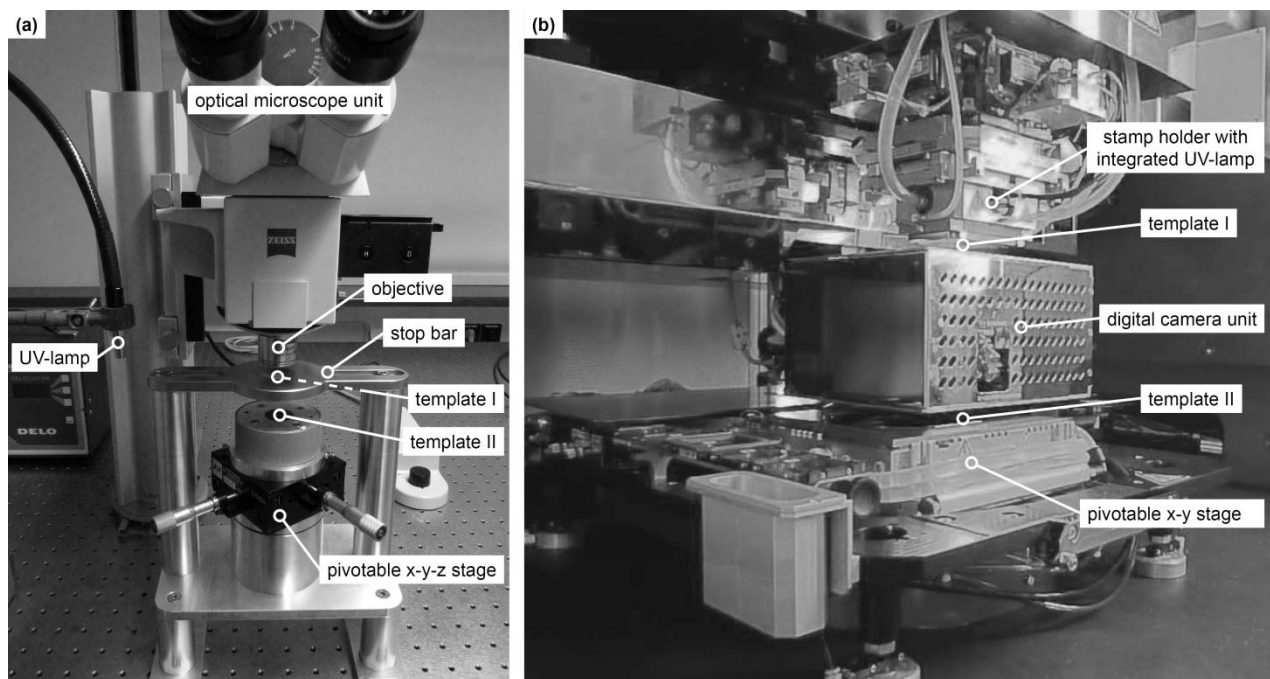


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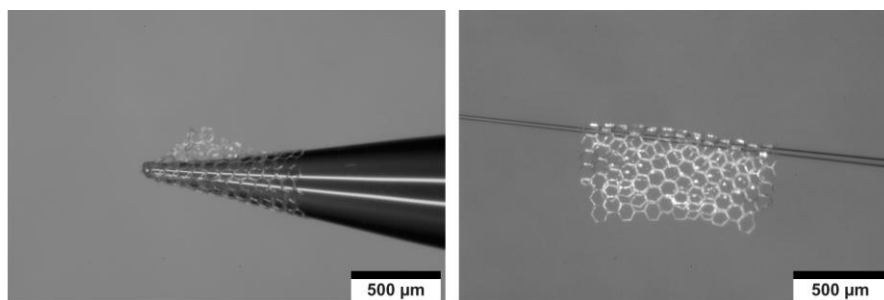
template I

template II

3 **Figure S1. Layout of the elastomeric perfluoropolyether dimethacrylate (PFPEdma)**
4 **templates. (a)** Silicon master structure and the corresponding elastomeric PFPEdma
5 **I** with an array of cross-shaped motives. **(b)** Silicon master structure and the corresponding
6 **elastomeric PFPEdma template II** with a protrusive comb-shaped mesh structure.



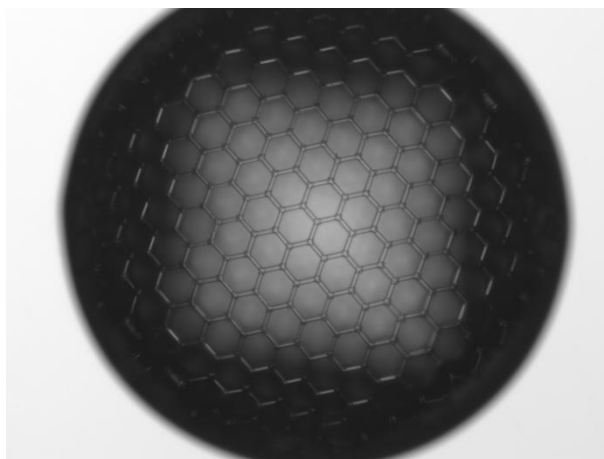
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2 **Figure S2. Layout of the imprint stations. (a)** Self-made set-up mounted on an optical
3 microscope. **(b)** Fully automated Nano Imprinting Stepper NPS300.



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2 **Figure S3. Demonstration of the mechanical flexibility of the raft.** The raft based on a
3 mesh structure wrap the tip of glass capillaries without breaking.

1 **Supplementary Movie**



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3 **Movie M1. Free-floating raft at the water-air interface of an evaporating sessile droplet.**