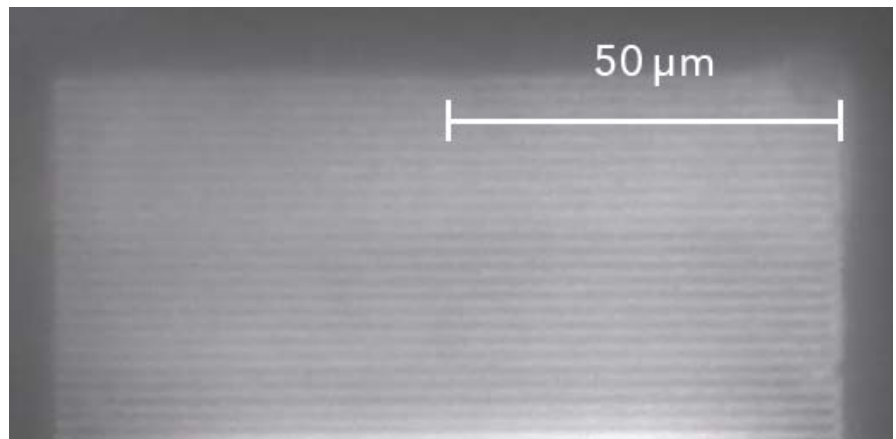


NANOLITHOGRAPHY

FluidFM® technology takes AFM based nanolithography to new levels. Etching, writing and printing structures at the nanometer scale with AFM has never been more powerful. Our unique **FluidFM®** probes make it easy for you to carry out lithography experiments; be it in liquid or in ambient air environment. Extend your experimental freedom with **FluidFM®** nanolithography.

FluidFM® GIVES YOU THE EDGE.

Thanks to **FluidFM®** technology you are no longer limited to ambient air environments for your AFM based lithography applications. The closed microfluidic system inside **FluidFM®** probes extends this technique to work even on completely immersed samples. At the same time you can take advantage of a virtually limitless choice of suitable inking solutions. The technology ensures full control over mission critical parameters such as dispensing volumes, mechanical interactions and spatial positioning with respect to your sample. Create complex patterns at the nanoscale like never before.



REINVENTING AFM BASED NANOLITHOGRAPHY. Fluorescent nanoparticles lines printed in liquid on a microscope slide. Courtesy of Grüter R. R., ETH Zurich

Enjoy unprecedented experimental freedom for your applications with **FluidFM®** nanolithography.

THE PROCEDURE IN BRIEF.

A simple process with full control. Once in contact with the target surface, deposition of ink solution is achieved via a sophisticated, pressure based microfluidics control system. Simultaneous tuning of the contact force and spatial coordinates of the **FluidFM®** probe

enables the generation of complex patterns with nanometer precision; both in air and liquid.

PUBLICATIONS

- 2013. R. R. Grüter, J. Vörös & T. Zambelli. FluidFM as a lithography tool in liquid: spatially controlled deposition of fluorescent nanoparticles. *Nanoscale*, 5(3), 1097–104. doi:10.1039/c2nr33214k
- 2014. H. Dermutz, R. R. Grüter, A. M. Truong, L. Demkó, J. Vörös & T. Zambelli. Local polymer replacement for neuron patterning and in situ neurite guidance. *Langmuir: the ACS journal of surfaces and colloids*, 30(23), 7037–46. doi:10.1021/la5012692

PRECISE

FL FLOW CONTROL

FAST

UNLIMITED INK RESERVOIR

VERSATILE

LIQUID & AIR ENVIRONMENT

LIMITLESS

CHOICE OF INKS

CONTACT US.

We offer complete support for our customers and distributors. Please visit the Cytosurge Help Center in order to access the **FluidFM®** user community. www.fluidfm.com

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