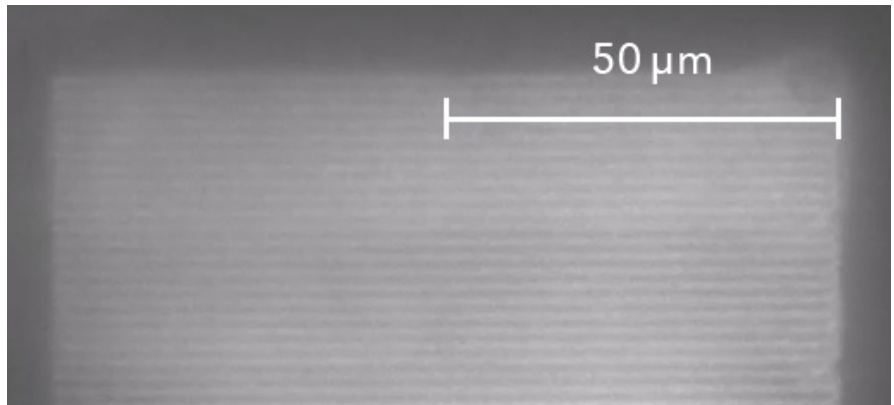


NANOLITHOGRAPHY

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 vast choice of suitable inking solutions. The technology ensures full control over 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.

SELECTED PUBLICATIONS

- 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
- 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

PRECISE

FL FLOW CONTROL

FAST

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CHOICE OF INKS

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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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