

# What's new?



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Dear,

Our new flagship instrument, the DriveAFM, was launched towards the end of last year and has been very well received by the AFM community. The response to its performance has been overwhelmingly positive to date, and has surpassed our expectations.



The initial feedback has validated our belief that the DriveAFM is indeed a top performing AFM and is a strong competitor to the best AFMs in the market today. We have already received orders from Europe and the US for the DriveAFM, and many more researchers are evaluating the new system for purchase.

We are continuing our development efforts on the DriveAFM and are expecting to implement several new features in the coming months. These will include a method to measure the mass of particles in the nanogram range with picogram sensitivity, and a suite of electrical characterization modes, one of which is possible thanks to our recent acquisition of Scuba Probe Technologies.

Stay tuned for more about the latest developments.

Yours sincerely,  
Dr. Urs Matter  
CEO

## Breaking news!

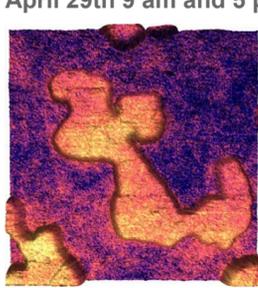
### Nanosurf announces the acquisition of Scuba Probe Technologies

In January 2021, Nanosurf acquired Scuba Probe Technologies, a startup company that develops atomic force microscopy probes for electrical measurements in liquid. This acquisition underlines Nanosurf's dedication to the clean energy challenge that requires understanding of nanoscale electrochemical phenomena.

[Read more](#)

## Conference corner: upcoming virtual opportunities. SAVE THE DATE

### April 29th 9 am and 5 pm CET



#### Advanced KPFM techniques: comparison between AM KPFM and FM KPFM

KPFM is an essential technique for nanoelectrical characterization of materials and devices. With the miniaturization of modern circuits, new KPFM implementations are being developed to face these challenges. In this webinar, Dr. Denis Vasyukov will present new KPFM imaging capabilities and their applications.

[Register now](#)

### May 11th 9 am and 5 pm CET

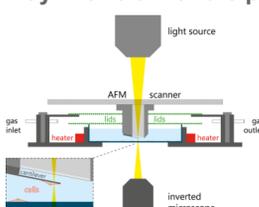
#### Nanosurf Python API and open-source tools for academia and industry

In this webinar we will introduce the Nanosurf Python API and learn how to control Nanosurf instruments with it. We will also briefly touch on the processing of the data, stored in NID files, and look at how to create custom user interfaces.



[Register now](#)

### May 27th 9 am and 5 pm CET



#### Picobalance: Mass measurement with DriveAFM

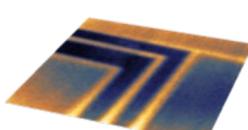
Dr. Patrick Frederix will present the concept of picobalance and explain its working principles. Examples of measuring the mass of microparticles, including cells, yeast, and polymeric beads will be presented.

[Register now](#)

### June 17th 9 am and 5 pm CET

#### Scanning Microwave Microscopy

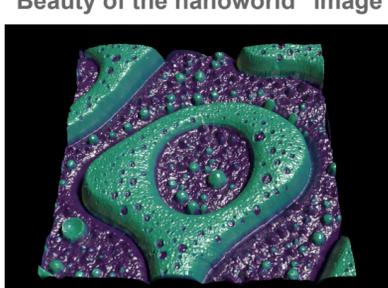
In this webinar, Dr. Denis Vasyukov will describe Scanning Microwave Microscopy (SMM), a scanning probe technique that uses microwaves to probe up to a few hundred nanometers below the surface. The information gathered from the SMM measurement can be used to reconstruct important electrical parameters of the material, such as the dielectric constant, conductivity and resistance, and carrier density.



[Register now](#)

## For our customers

### "Beauty of the nanoworld" image competition



We are launching an initiative to highlight the research activities of our customers. This includes expanding our image gallery and showcasing the research publications. Send us your most beautiful images and see them side by side with the best from all over the world.

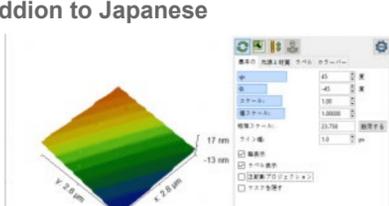
To kick off this initiative, we are organizing an image competition for the users of our AFMs. We would like to invite you and the members of your group to submit images to this competition.

The first prize will be a gift card worth CHF 500. Three second prize winners will each receive a gift card worth CHF 100 and the winners of six third prizes will receive gift cards worth CHF 50 each.

[How do I take part?](#)

### Nanosurf distributor translates Gwyddion to Japanese

Thanks to the altruistic effort of our partner, Quantum Design Japan, the open-source AFM analysis software Gwyddion is now available in Japanese. Gwyddion ver. 2.58 for Windows now includes the Japanese version in its installer, thanks to the efforts of Ikuo Obataya. This enhances the ease of use for Japanese researchers for this widely used AFM data processing platform.



Download the latest version of Gwyddion from <http://gwyddion.net/download.php>

### Nanosurf users can now use Python for data analysis and control of the AFM



Nanosurf has created a Python API for its COM interface because of its ease of use, popularity and universality, and the number of data and image processing libraries used in academia and industry. The Nanosurf Python package can be downloaded and installed from PyPI.

To learn more about using Python, please visit <https://www.nanosurf.com/en/software/nanosurf-scripting-interface>

## Featured story

### Service & Support team growing

To support our rapidly growing customer base, we are expanding our global support and service teams. We have recently added three members to the team around the world.



Dr Christina Newcomb will serve the west coast of the US and Canada. She comes to us from Scuba Probes Technology and has 10 years of AFM experience in soft matter, dynamic force spectroscopy, and electrochemistry.

Zhencheng Su will be based in our Shanghai office and will provide support to our customers in China and South-East Asian countries. Zhencheng joins us from the group of one of our customers at University of Texas, medical branch and was an early user of the FluidFM system.

Dr. Sebastian Goedrich will be based in our German office in Langen and will be supporting our European customers. He also comes to us from the group of one of our customers at the University of Bayreuth.

[Meet our support team](#)

## New installations

### Quantum Design Italy installs new Nanosurf FlexAFM at l'Istituto Astronomico di Brera dell'INAF.



Quantum Design Italy recently installed an AFM system at the INAF's Brera Astronomical Institute.

The Nanosurf atomic force microscope will serve for the characterization of ultra-flat and very low rough surfaces for the construction of X-ray mirrors for astronomical applications.

[Read more](#)

## Selected recent publications using Nanosurf AFM

[SiO2-Ag Composite as a Highly Virucidal Material: A Roadmap that Rapidly Eliminates SARS-CoV-2.](#)

[Molecular activation of fluoropolymer membranes via base piranha treatment to enhance transport and mitigate fouling – new materials for water purification.](#)

[Study on the relationship between the tribological properties and oxidation degree of graphene derivatives in O/W emulsion.](#)

[PLGA Based Nanospheres as a Potent Macrophage-Specific Drug Delivery System.](#)

[Deposition of Zinc Oxide Coatings on Wood Surfaces Using the Solution Precursor Plasma Spraying Process.](#)

Nanosurf AG  
Gräubernstrasse 12  
4410 Liestal  
Switzerland

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