

KAWAKATSU LAB.

TOUCHING NANO WITH SOUND AND FORCE



Centre for Interdisciplinary Research on MicroNano Methods
Laboratory for Integrated Micro-Mechatronics Systems (LIMMS/CNRS-IIS (IRL2820))

Applied Scientific Instruments
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Coupling to the Nano Regime through Force, Sound and Emission

- (1) Our chief interest lies in mechanical interactions in the atomic to the nano regime. We work on imaging mechanisms and novel detection techniques. We are also looking into possible application to mechanical bio-sensing.
- (2) We welcome young students and interns from all over the world.
- (3) We also organize MakerSpace or Fablab for students and staff.

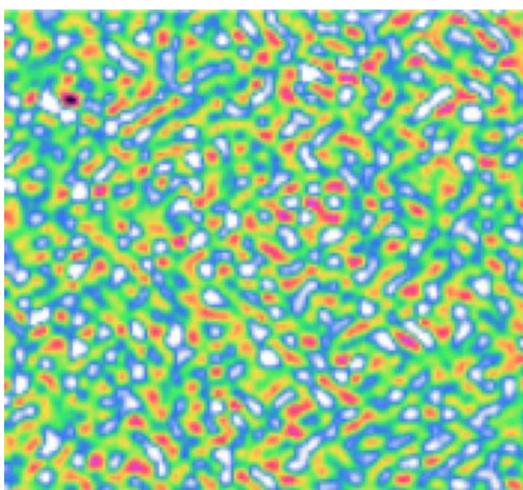


Fig1. Chemical contrast AFM



Fig.2 UHV TEM AFM

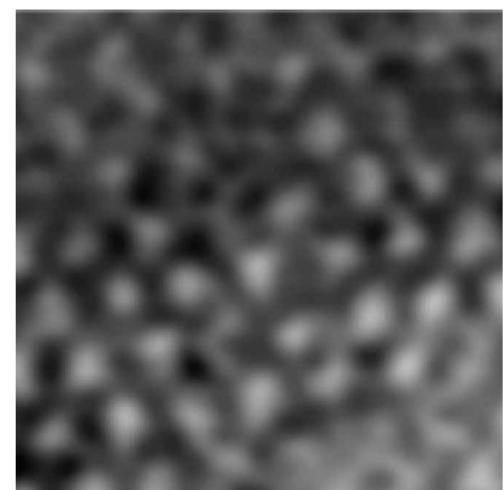


Fig.3 Liquid AFM

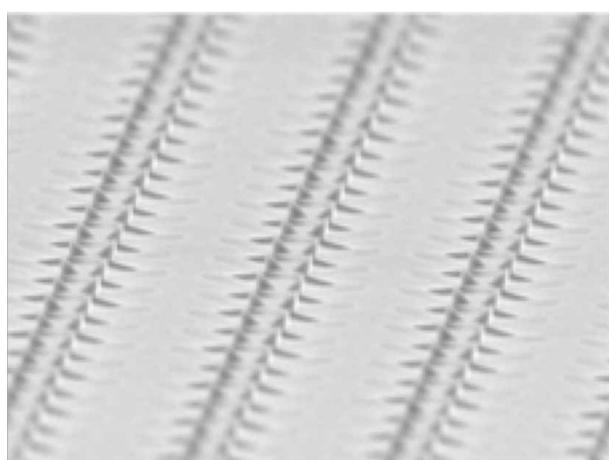


Fig4. Millions of cantilevers

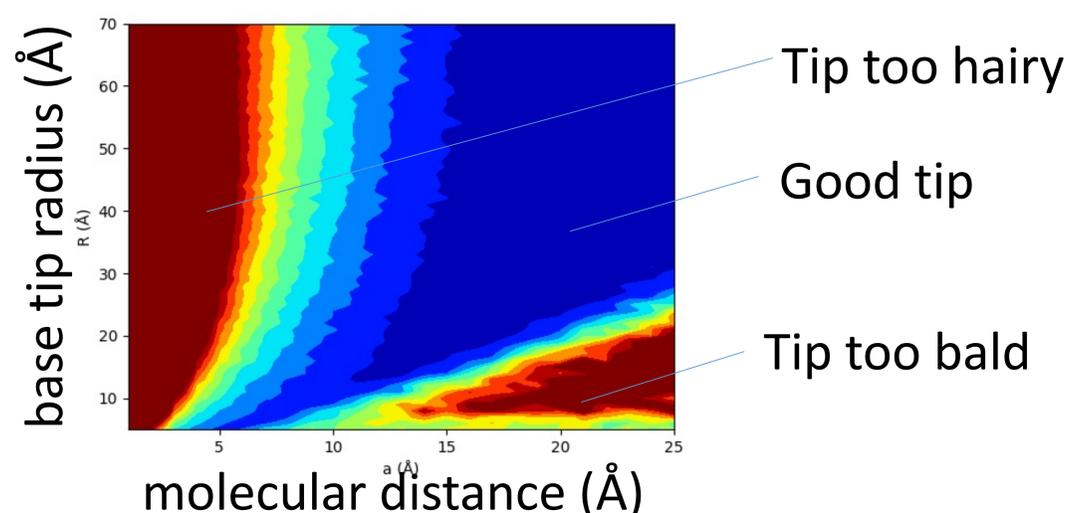


Fig.5 Ideal AFM tip by molecular functionalisation