

Development of tapping mode AFM simulation

Application range

Environments

In air
In liquid
Under water film

Samples

Inorganic elastic body
Organic, Soft, Bio
materials

Scan mode

High Speed Scan
Standard Scan

Scan property value

Tables of viscoelasticity
The shape of surface
Adhesive, secession
process

Main development subject

- 1) Determination of property value of viscoelasticity samples, using inverse problem
- 2) Developments of high speed scan mode AFM
- 3) Including the hysteresis of agglutination and separation, effects of water film on samples
- 4) Including DLVO theory
- 5) Development of calculation for Macro systems KPFM images