

K. SAKAI LAB.

[Macroscopic, Microscopic and Nanoscopic Behavior of Liquids]

Department of Fundamental Engineering

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Surface and Interface Physics of Liquids

Department
of Applied
Physics

Macroscopic, Microscopic and Nanoscopic Behavior of Liquids

We introduce **new** and **fantastic techniques** for investigating the characteristics of liquids with Optical, Electric or Magnetic field.

- ◆ **EMS viscometer series** ~ **Now commercially available!!** ~
These viscometers have several amazing features!
Non-contact, Small amount of the sample, Quick operation, *etc.*
- ◆ **Ink-Jet emission technique with glass capillary**
Glass capillary is an all-around nozzle!
We can observe micro-droplets with high resolution in time and space.
- ◆ **Liquid surface observation with optical or electric field**
We can make a micro-deformation on liquid surface without touch!
The surface motion informs of the surface properties.
- ◆ **Light scattering observation of liquid surfaces**
Observation of molecular interactions with light!
- ◆ **ReD surface tensiometer** ~ **Now demonstrating!!** ~
Sample liquid drop is rotated in this tensiometer, and the drop deformation indicates the surface tension with high accuracy!

