

Research Information



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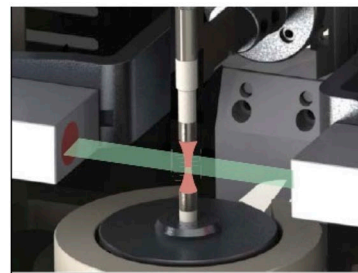
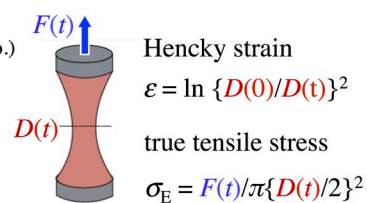
Research Field

Research on molecular rheology and dynamics of softmatters, for example, polymers, emulsions, and suspensions. A particular interest is placed on correlation of dynamic quantities that detect the same molecular motion with different averaging moments. International collaboration with researchers in EU and Asian areas is going on.

Research Facility

Various types of rheometers
Dynamic dielectric bridge
Size-exclusion chromatography
High vacuum synthetic line

filament stretch rheometer
VADER1000 (RHEO FILAMENT Co.)



Research Activities

- 1) On-going research includes coupling of component dynamics in associative polymers and extensional rheology of softmatters; see also <https://www.rheology.org/sor/Awards/Bingham/WatanabeH>
- 2) International collaboration keeps on going with EU researchers (cf. <https://www.dodynet.eu/workshop-july-2019/workshop-programme/>) and with Asian researchers (cf. <http://rheology.jp/iweayr-14/index.php/welcome/>)
- 3) Research stay of foreign students/professors has been encouraged.

Comments

Basic research is very important in Molecular Rheology Lab.
<http://rheology.minority.jp/en/>