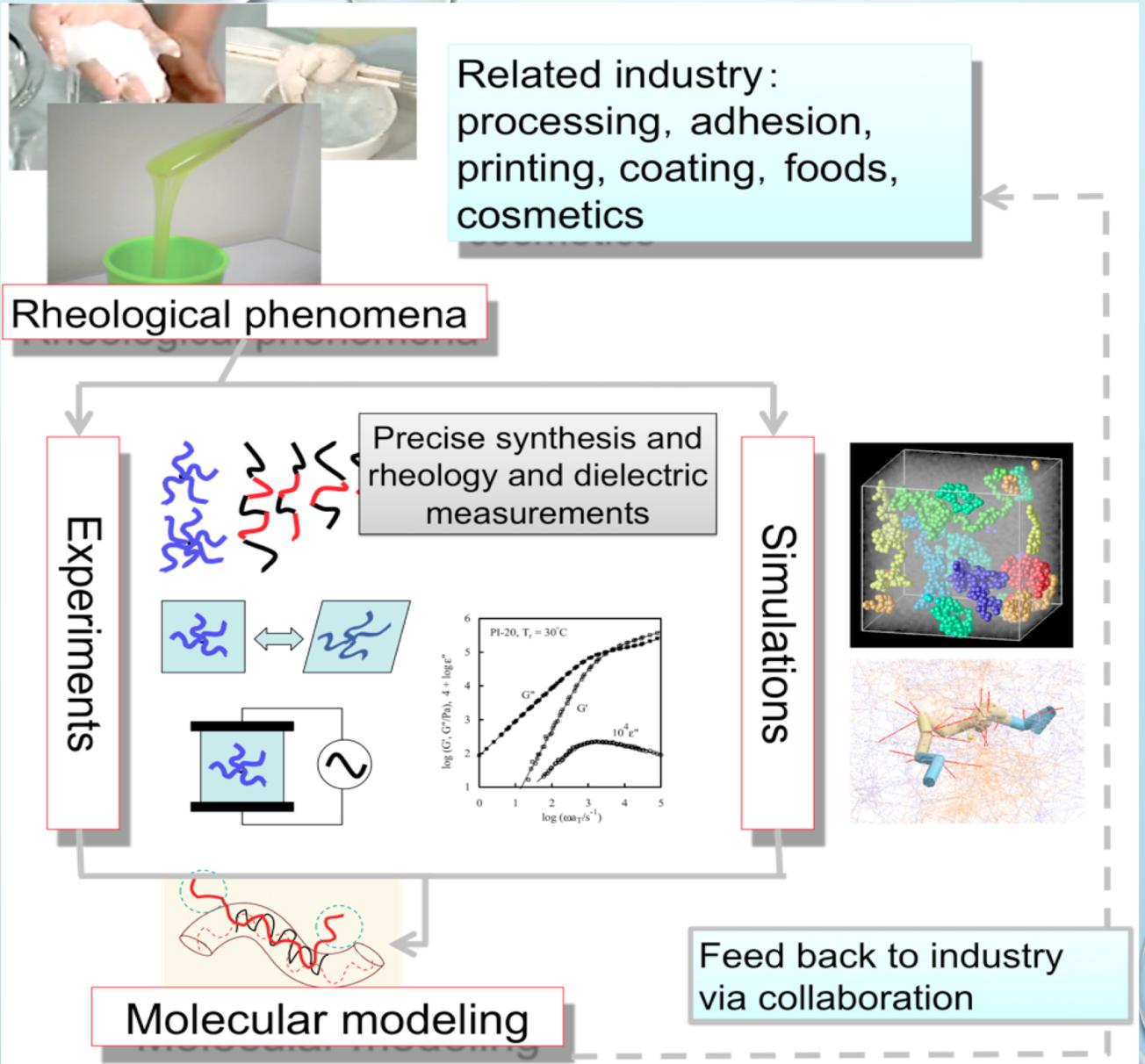


分子レオロジー領域の研究紹介

Research Activities in Molecular Rheology Laboratory



Recent Publications:

- Shimada R., Urakawa O., Inoue T., Watanabe H.
Phase equilibrium and dielectric relaxation in mixture of 5CB with dilute dimethyl phthalate: Effect of coupling between orientation and composition fluctuations on molecular dynamics in isotropic one-phase state, *Soft Matter*. 17 6259-6272 2021
doi: 10.1039/d1sm00496d
- Sato T., Kwon Y., Matsumiya Y., Watanabe H.
A constitutive equation for Rouse model modified for variations of spring stiffness, bead friction, and Brownian force intensity under flow, *Physics of Fluids*. 33 2021
doi: 10.1063/5.0055559
- Watanabe H., Matsumiya Y., Sato T.
Revisiting Nonlinear Flow Behavior of Rouse Chain: Roles of FENE, Friction-Reduction, and Brownian Force Intensity Variation, *Macromolecules*. 54 3700-3715 2021
doi: 10.1021/acs.macromol.1c00013
- Matsumiya Y., Watanabe H.
Non-Universal Features in Uniaxially Extensional Rheology of Linear Polymer Melts and Concentrated Solutions: A Review, *Progress in Polymer Science*. 112 2021
doi: 10.1016/j.progpolymsci.2020.101325

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