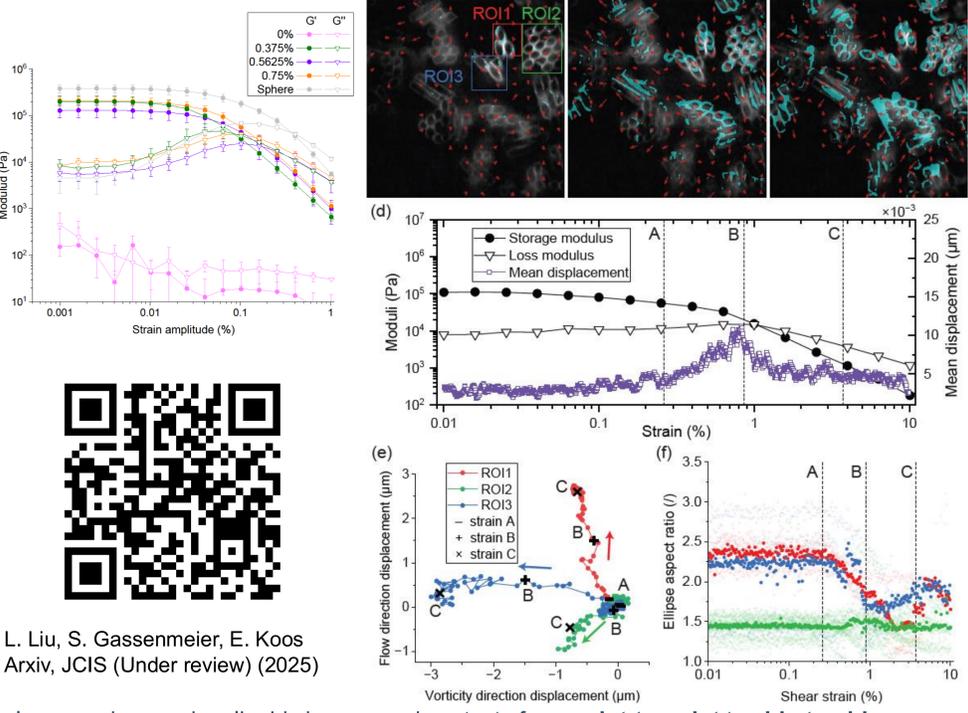
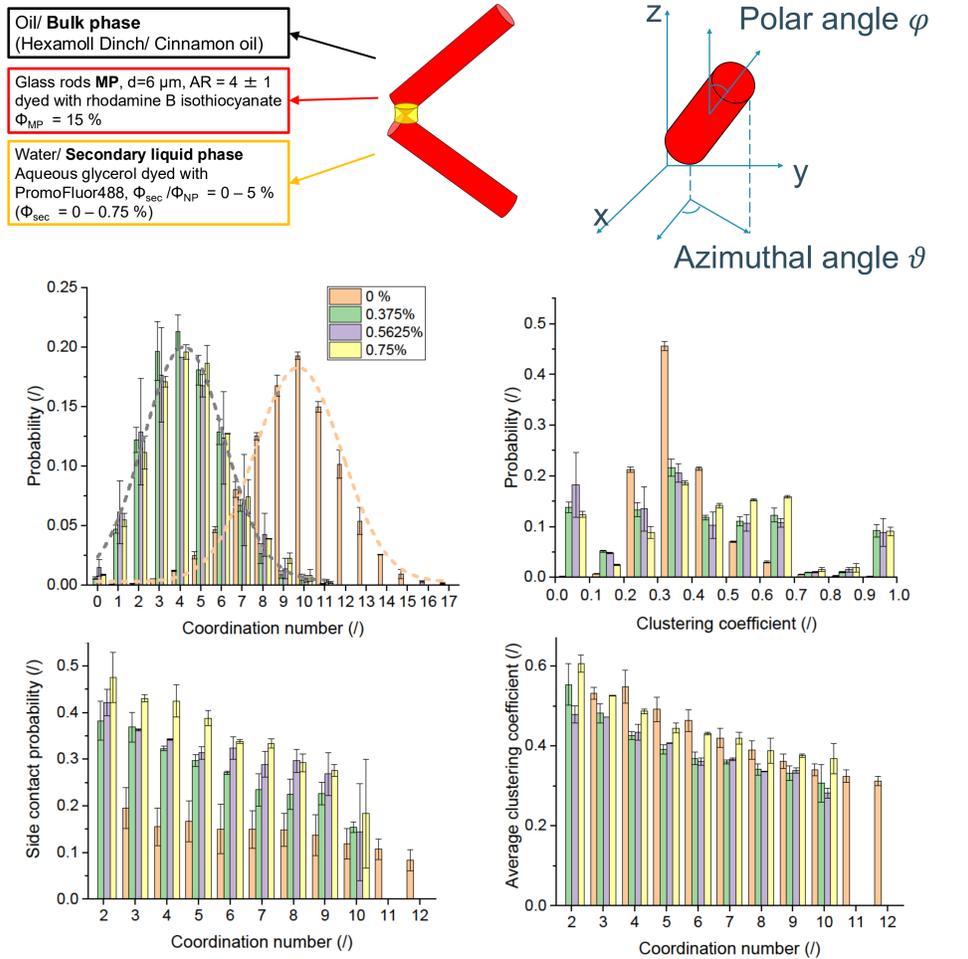


Capillary force-driven particle orientation in rod networks

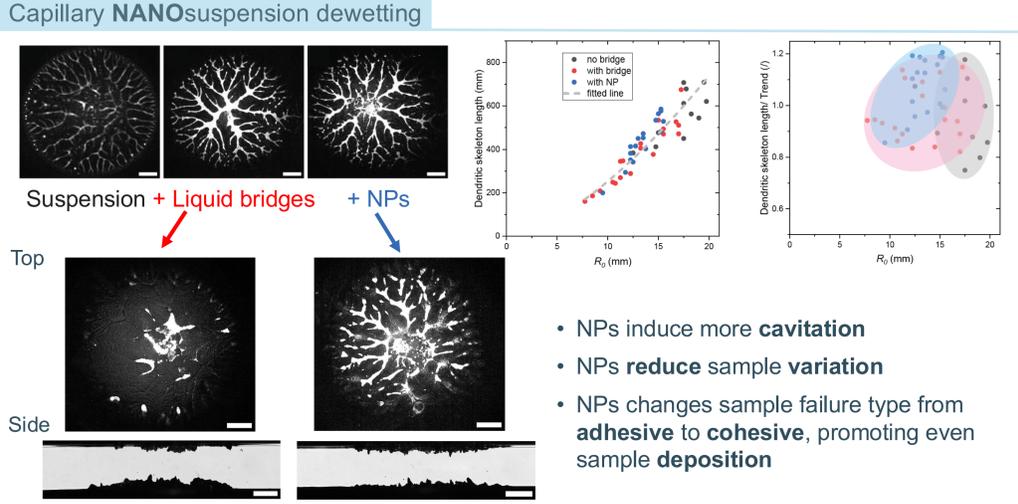
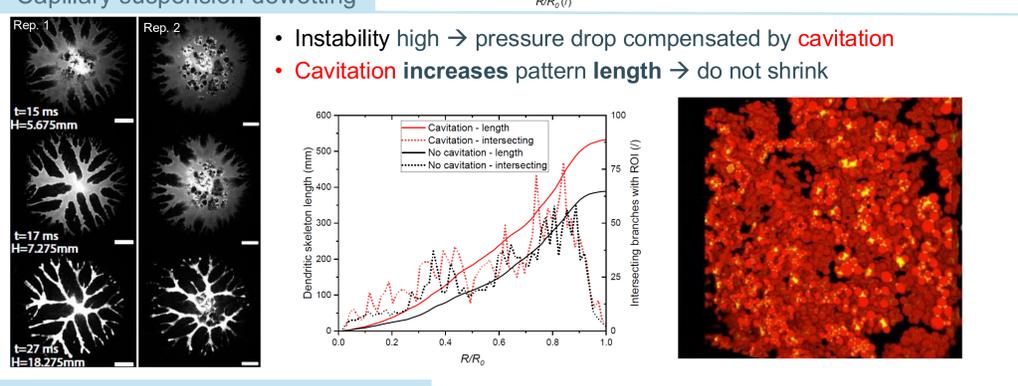
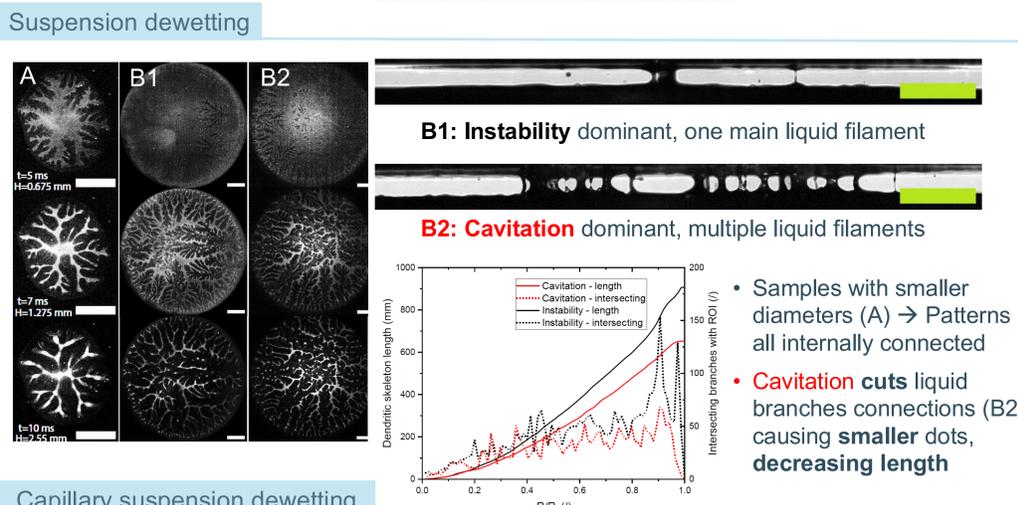
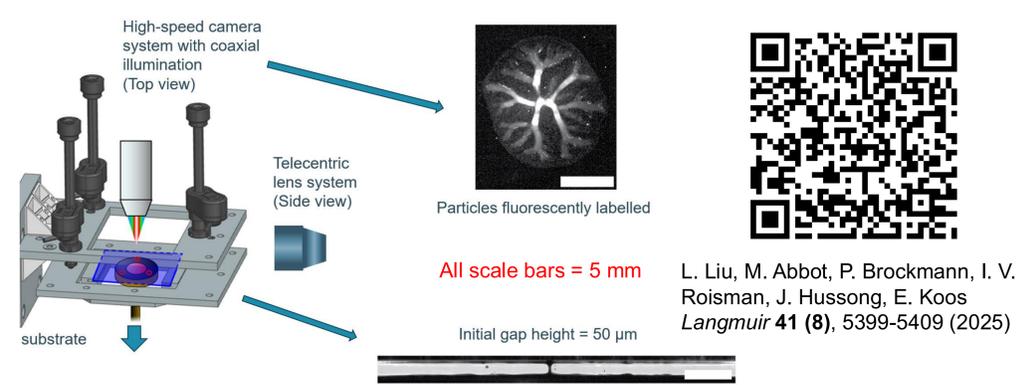


- Increased secondary liquid changes rod contacts from **point-to-point** to **side-to-side**.
- Higher coordination numbers **reduce** clustering coefficients, showing complex configurations.
- Greater side-to-side contacts increase **viscoplastic fragility**.
- During transition, particle clusters move differently while **maintaining** internal structure.



L. Liu, S. Gassenmeier, E. Koos
Arxiv, JCIS (Under review) (2025)

Dewetting fingering instability in capillary suspensions: Role of particles and liquid bridges



Identifying structural failure in attractive gels via recovery rheology

