



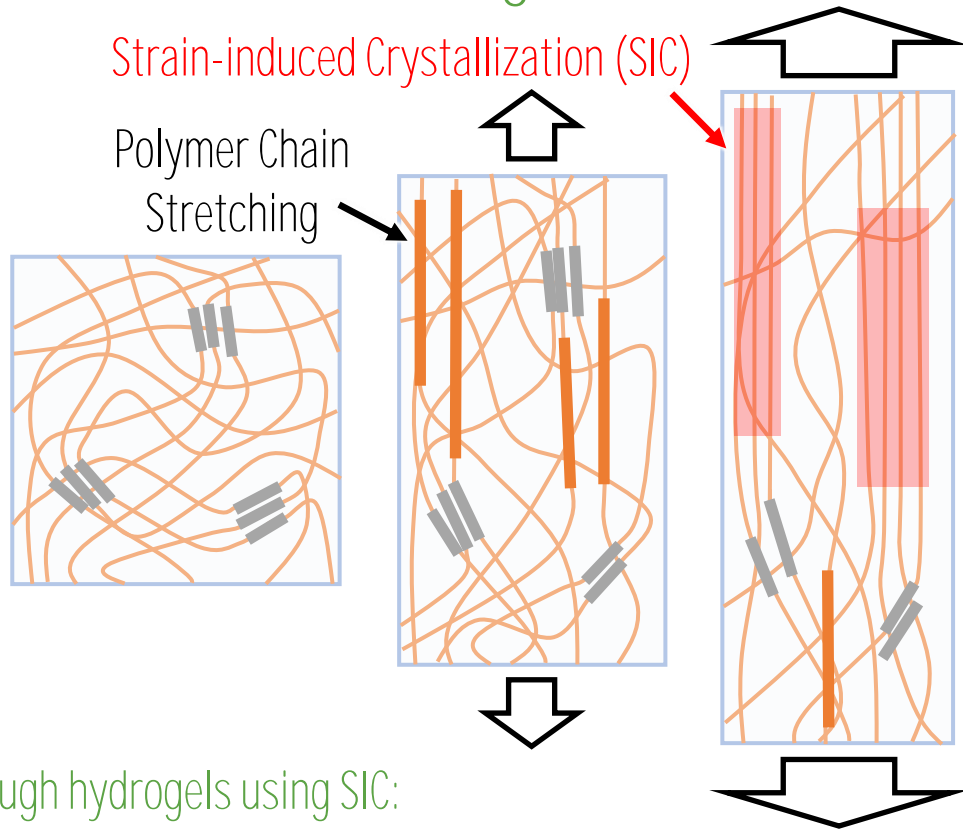
Dual Ratiometric Fluorescence Monitoring of
Mechanical Polymer Chain Stretching
and Subsequent Strain-Induced Crystallization

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38APS

Strain-induced crystallization as a self-reinforcing mechanism

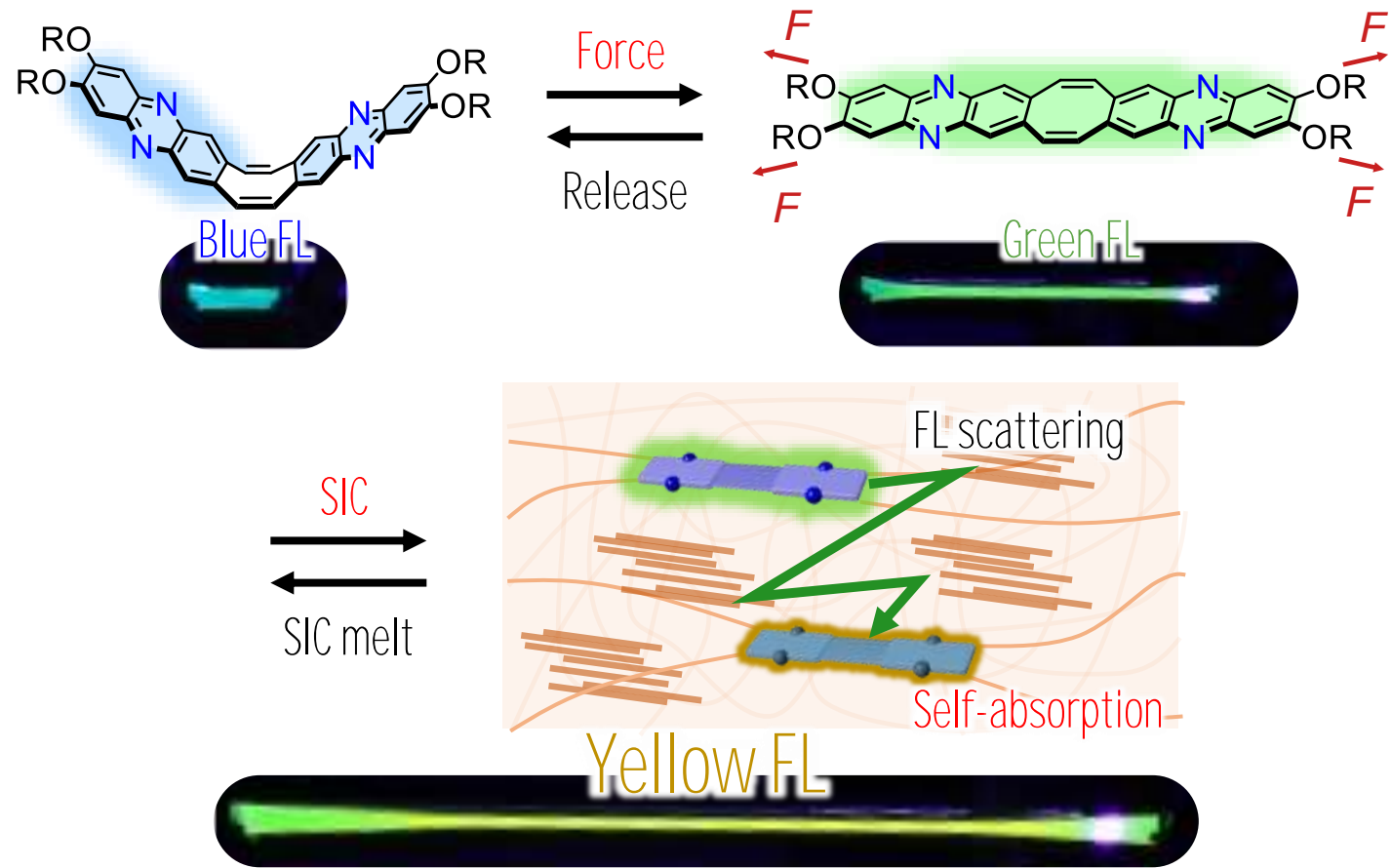


Tough hydrogels using SIC:

- K. Mayumi, K. Ito et al., Science 2021, 372, 1078.
- T. Sakai et al., Sci. Adv. 2022, 8, eabk0010.

-> Polymers for a Sustainable Future

How to track structural changes in polymers? Our approach: Fluorescent Force Probes



- Ratiometric Imaging of Chain Stretching and SIC

K. Suga, T. Yamakado, S. Saito, J. Am. Chem. Soc. 2023, 145, 26799–26809.

