Electronic Supplementary Material (ESI) for Soft Matter.

Supporting Information

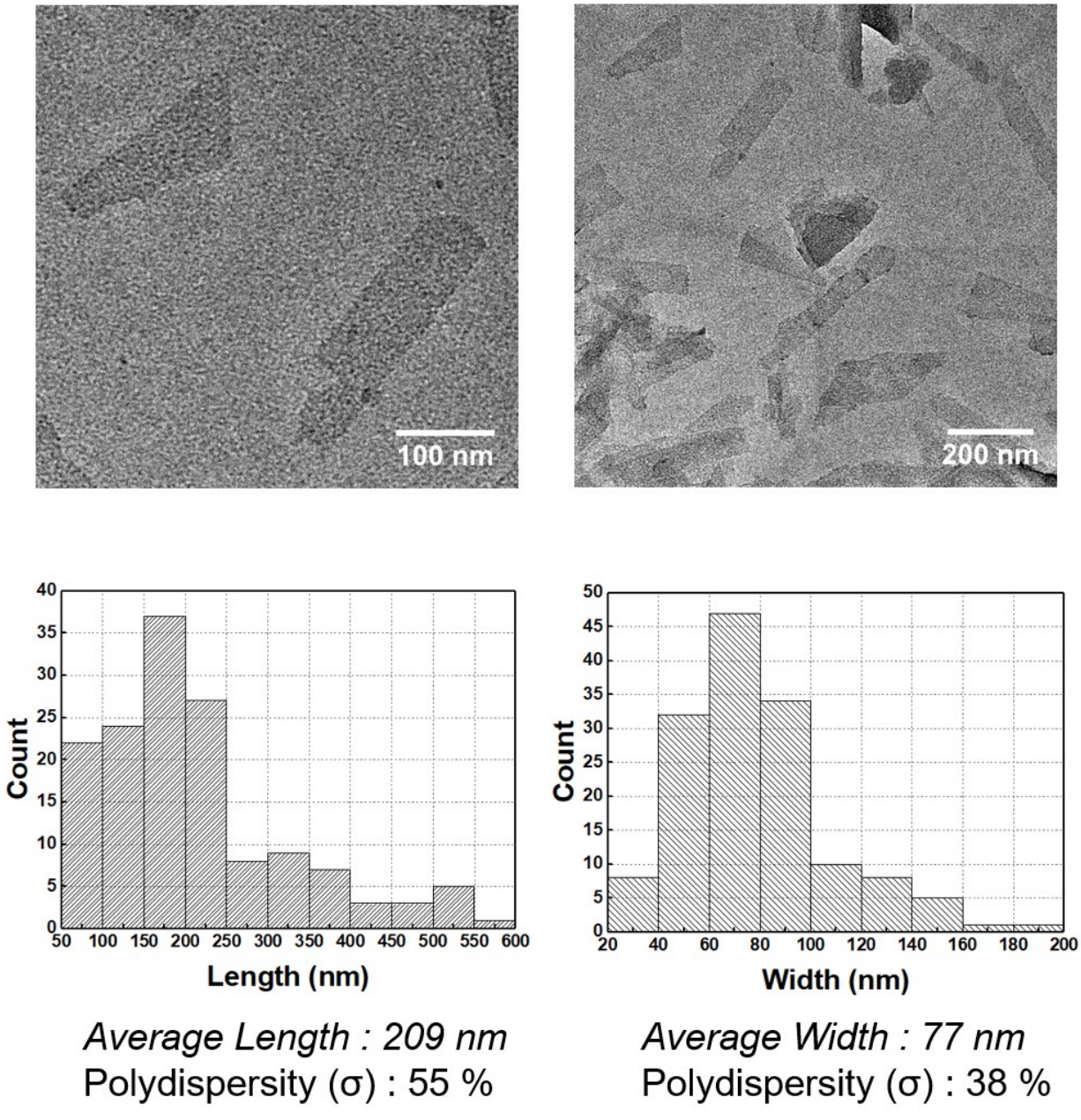

Figure 1. TEM images of nanoclays. Average length and width of nanoclays with polydispersity.

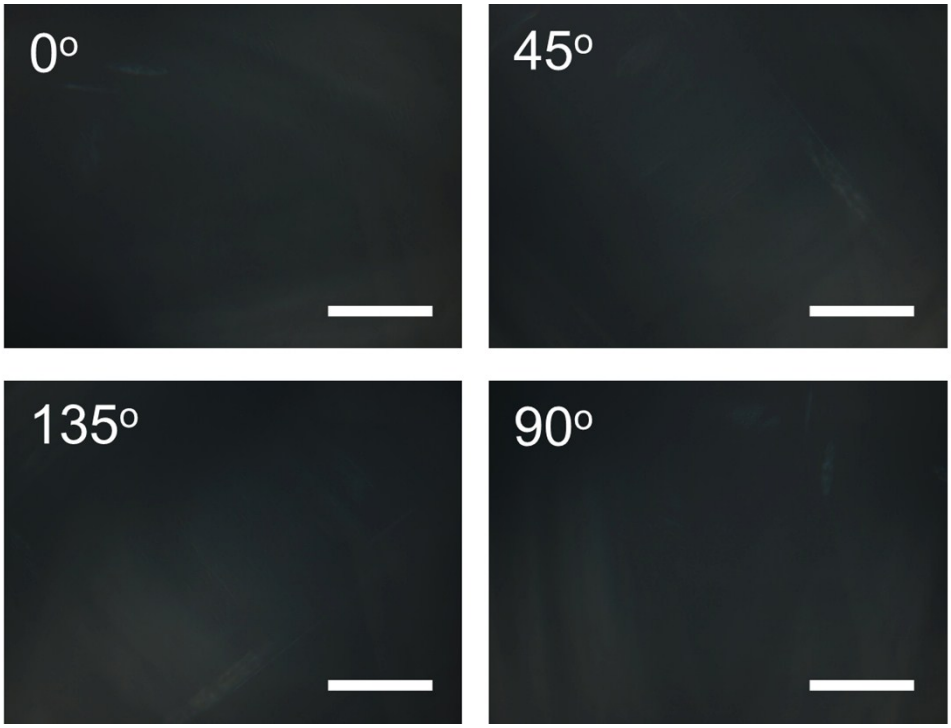

Figure 2. The optical microscope image of a pure hydrogel prepared in 9 T under cross polarizers at every 45° degree rotation.

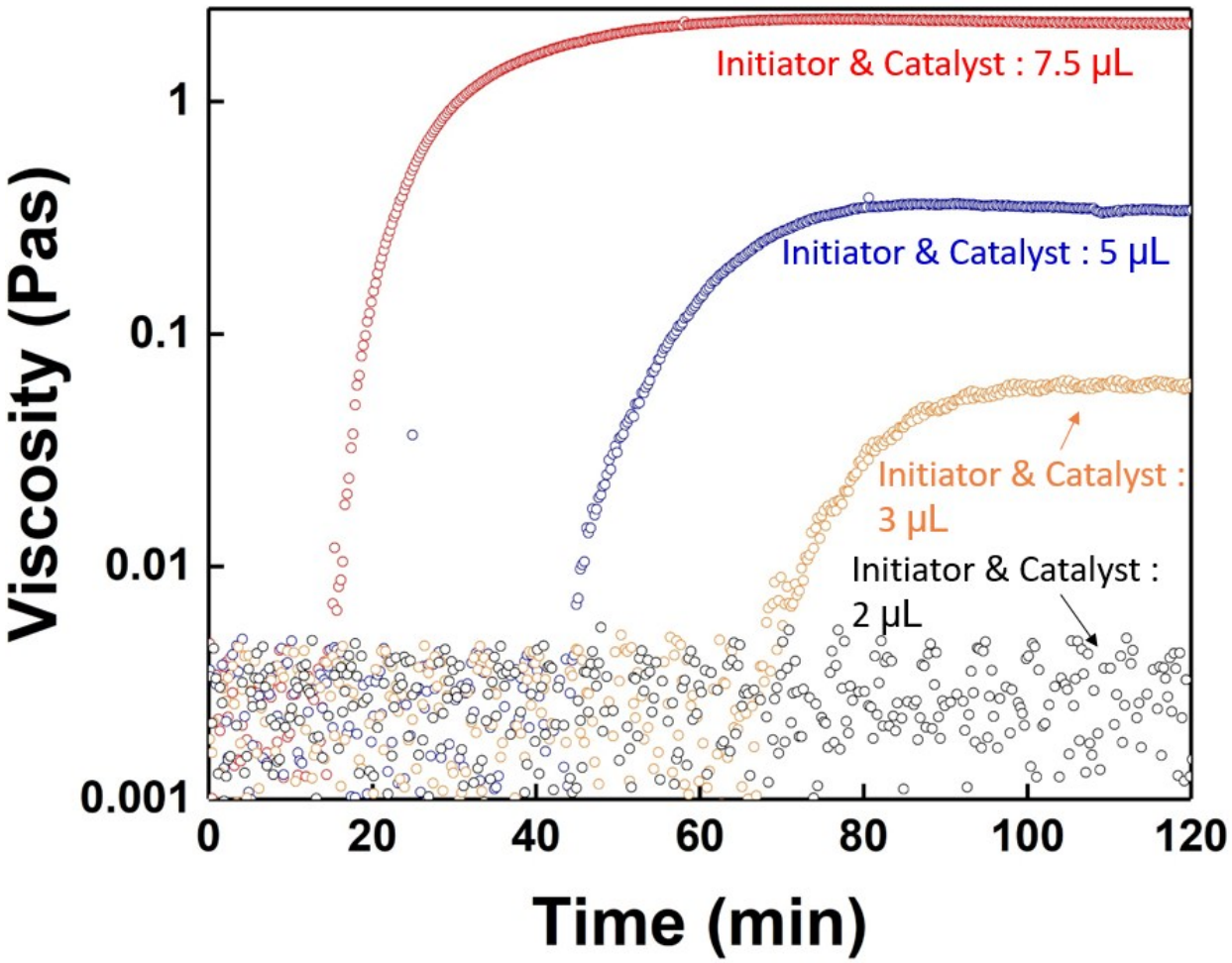

Figure 3. The viscosity of hydrogel precursors with different concentration of initiator and catalysis as a function of time.

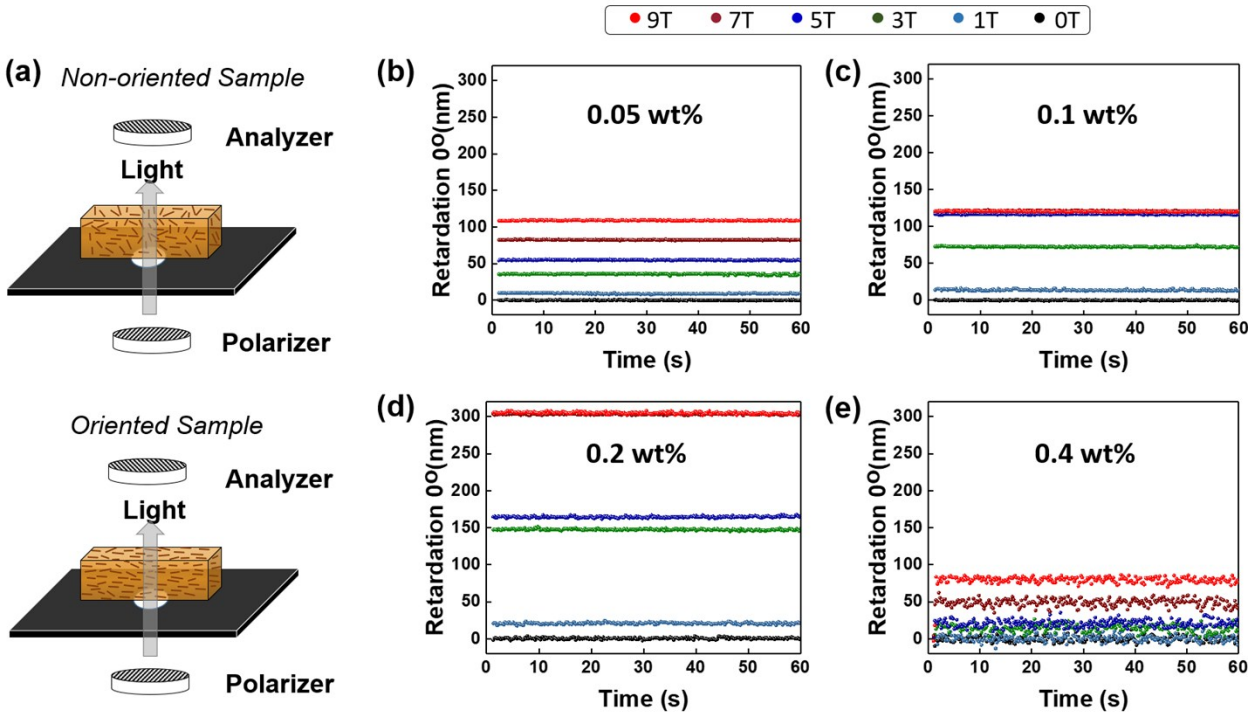

Figure 4. The retardation value of nanoclays hydrogel samples with different clay concentration and magnetic field strength. (a) Schematic illustration of retardation measurement of anisotropic hydrogel samples. The a real-time retardation of nanoclays hydrogels with (b) 0.05 wt%, (c) 0.1 wt%, (d) 0.2 wt% and (e) 0.4 wt% nanoclay concentrations.