Supplemental Movie Captions

Supplemental Movie S1: Simulation of initially disordered sheared rod suspension with freely rotating attractive bonds, $\tau = 0$. ($\dot{\gamma} = 0.03$, $\kappa = 80$)

Supplemental Movie S2: Simulation of initially disordered sheared rod suspension with moderate torsional stiffness, $\tau = 40$. ($\dot{\gamma} = 0.03$, $\kappa = 80$)

Supplemental Movie S3: Simulation of initially disordered sheared rod suspension with high torsional stiffness, $\tau = 200$. ($\dot{\gamma} = 0.03$, $\kappa = 80$)