

Supplementary Information

Pair Aligning Improved Motility of Quincke Rollers

Shi Qing Lu,^{a,b} Bing Yue Zhang,^{a,b} Zhi Chao Zhang,^{a,b} Yan Shi^{a,b} and Tian Hui Zhang^{*a,b}

^a. Center for Soft Condensed Matter Physics and Interdisciplinary Research, Soochow University, Suzhou, 215006, P. R. China

^b. College of Physics, Optoelectronics and Energy, Soochow University, Suzhou, 215006, P. R. China

Movie 1A: Transient dynamic cluster. $E/E_c = 1.10$, $\phi = 0.03$, acquisition rate 500 fps, video frame rate 20 fps.

Movie 1B: Dynamic evolution of velocity in Movie 1A

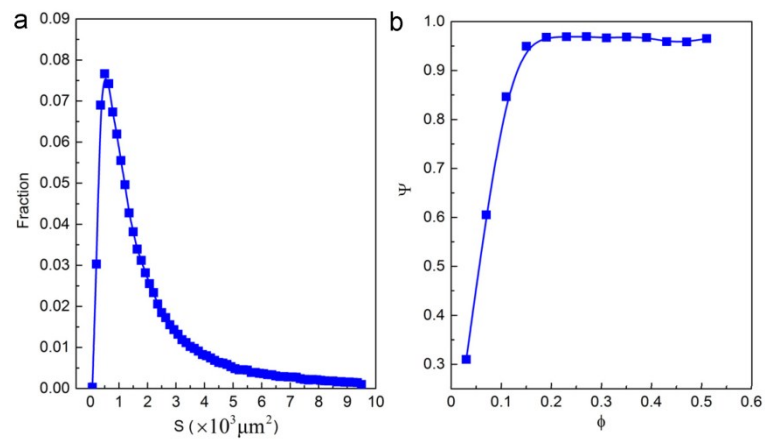


Figure S1. a. Distribution of S_{vor} . b. Polar order as the function of local area fraction