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ADHIKARI, Ronojoy.

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Stresslet hydrodynamics and bacterial suspensions

ANANTHAMURTHY, Sharath

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Brownian dynamics of an optically trapped bead as a rheological probe of viscoelastic materials at micro and nanometer scales

BANDYOPADHYAY, Ranjini.

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Chaotic dynamics in driven surfactant solutions

CHAMATI, Hassan

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Dynamic finite-size scaling in disordered systems

FOULADVAND, Mohammad E.

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Boundary-bulk interplay of molecular motor traffic flow through a closed compartment with parallel dynamic

GANAPATHY, Rajesh

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Superdiffusion of concentration in Wormlike-Micelle solutions

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Vortex avalanches in thin superconductors: a Ginzburg-Landau approach

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Entropic forces generated by grafted semiflexible polymers

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Active trafficking dynamics of closed membranes: nonequilibrium steady states and Actin dependent, lipid organization on the membrane of living cells

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Physical description of mitotic spindle orientation

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Active cytoskeletal protein networks

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Nonequilibrium membranes with ion conducting units

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Fourth order elastic chiral filament model and the centerline of uniform Kirchhoff elastic rod

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Rocking ratchets in two dimensional Josephson Junction Arrays: simulation vs experiments

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Shear stabilized active nematic moving phases and Vesicular transport

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Studies on the Langmuir monolayer of an ionic discotic liquid crystal at liquid - air and solid - air interface

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Hydrodynamic modelling of self-propelling particles

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An electrophoretic ratchet - diffusion of DNA driven by pulsing field

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Diagrammatic approach to confined homopolymers

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Shape instabilities in axons

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Lattice-Boltzmann simulations of active particle suspensions in two-dimensions

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Soret effect in charged colloidal solutions

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Three-dimensional collective motion of self-driven particles

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Forced Kramers escape in the presence of hydrodynamic interaction

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Global On/Off switching of transcriptional activity: A new hypothesis

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Soft elasticity of nematic elastomers
Stress driven growth of soft tissues

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A molecular model for the chiral nematic phase of dispersions of M13 virus

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Comparative studies of defects in the column-like mesophase thermotropic and biological (ADN) by freeze fracture method

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Minimal mechanical model for a motile particle

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Hydrodynamic flow patterns and synchronization of beating cilia

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Spectra characteristics of complex networks

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Direct visualization of double-strand breaks in reconstituted chromatin and the protective effect of ascorbic acid