

# Soft Matter

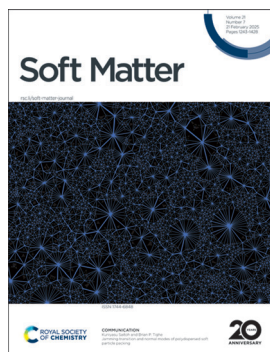
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### Cover

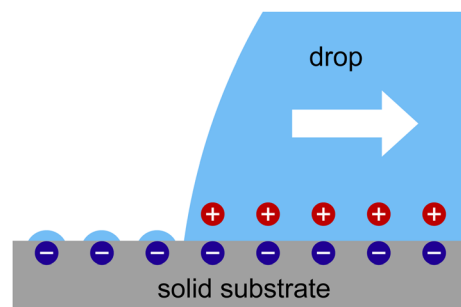
See Kuniyasu Saitoh and Brian P. Tighe, pp. 1263–1268. Image reproduced by permission of Kuniyasu Saitoh from *Soft Matter*, 2025, 21, 1263.

## REVIEW

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### Liquid slide electrification: advances and open questions

Aaron D. Ratschow, Hans-Jürgen Butt,\* Steffen Hardt and Stefan A. L. Weber

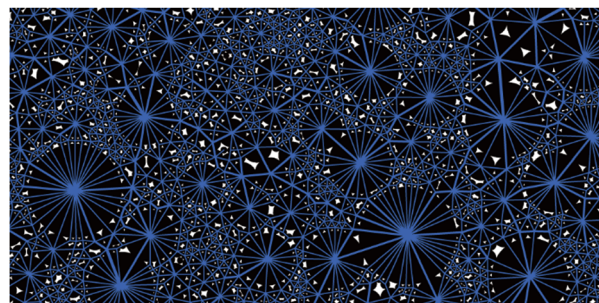


## COMMUNICATION

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### Jamming transition and normal modes of polydispersed soft particle packing

Kuniyasu Saitoh\* and Brian P. Tighe



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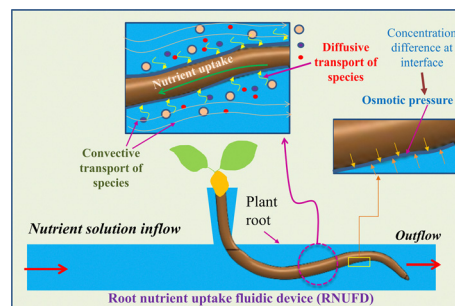
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## Flow environment affects nutrient transport in soft plant roots

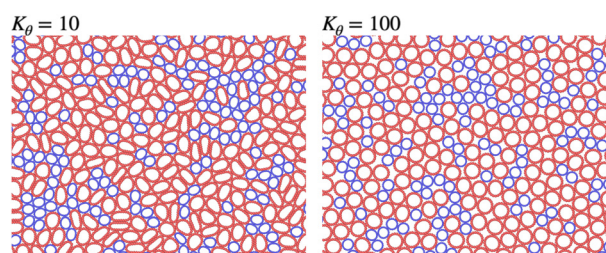
Sumit Kumar Mehta, Anirudha Talukdar, Suraj Panja, Jinmay Kalita, Somchai Wongwiset and Pranab Kumar Mondal\*



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## Two-dimensional squishy glass: yielding under oscillatory shear

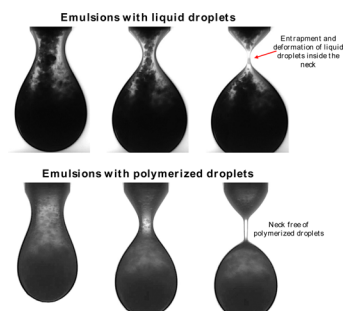
Sayantana Ghosh, Rahul Nayak, Satyavani Vemparala\* and Pinaki Chaudhuri\*



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## Pinch-off dynamics of emulsion filaments before and after polymerization of the internal phase

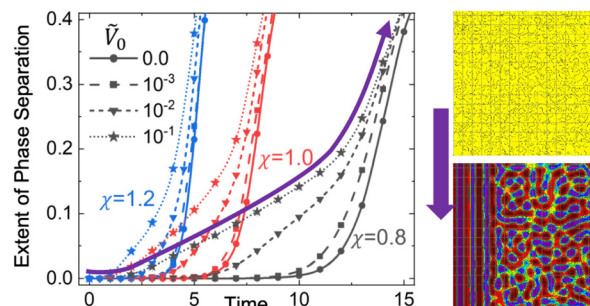
Parisa Bazazi\* and Howard A. Stone



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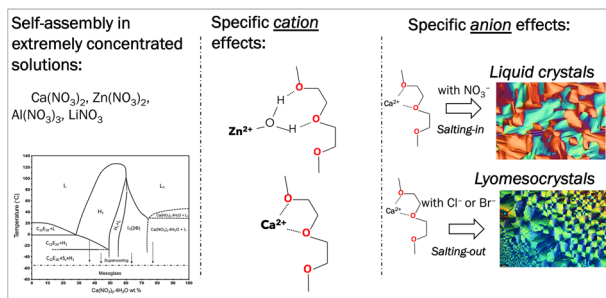
## The effect of selective surface interaction on polymer phase separation with explicit polydispersity during polymerization

Hyeonmin Jeong, Junsu Gu, Paul Mwasame, Kshitish Patankar, Decai Yu and Charles E. Sing\*



## PAPERS

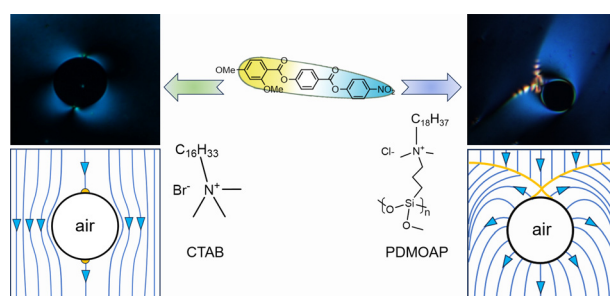
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### Non-ionic surfactant self-assembly in calcium nitrate tetrahydrate and related salts

Yashfeen Zahid, Yizhen Li, Ömer Dag, Gregory G. Warr and Cemal Albayrak\*

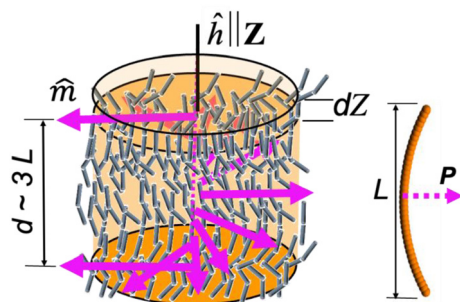
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### Topological defects induced by air inclusions in ferroelectric nematic liquid crystals with ionic doping

Zhongjie Ma, Shengzhu Yi, Miao Jiang, Mingjun Huang, Satoshi Aya, Rui Zhang and Qi-Huo Wei\*

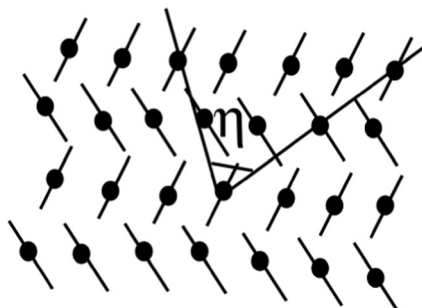
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### Entropy stabilized form chirality in curved rod nematics: structure and symmetries

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### Instabilities, thermal fluctuations, defects and dislocations in the crystal- $R_I$ - $R_{II}$ rotator phase transitions of *n*-alkanes

Soumya Kanti Ganguly and Prabir K. Mukherjee\*



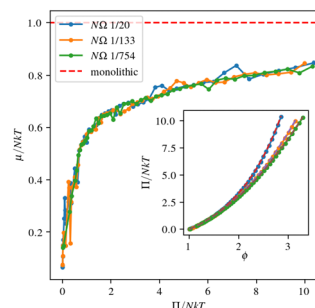


## PAPERS

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# A multi-body finite element model for hydrogel packings: linear response to shear

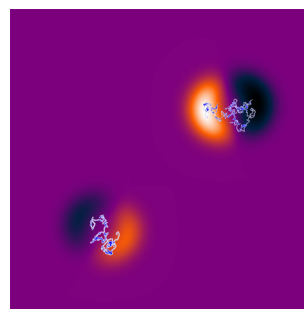
Ahmed Elgailani\* and Craig E. Maloney



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# One- and two-particle microrheology of soft materials based on optical-flow image analysis

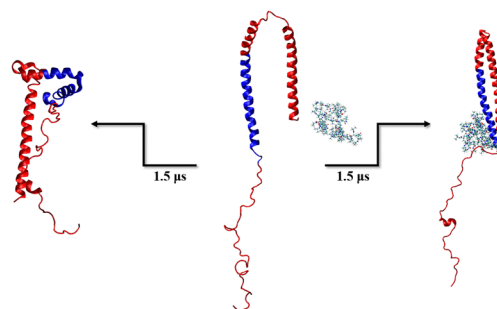
Matteo Brizioli, Manuel A. Escobedo-Sánchez, Patrick M. McCall, Yael Roichman, Veronique Trappe, Margaret L. Gardel, Stefan U. Egelhaaf, Fabio Giavazzi\* and Roberto Cerbino\*



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# A study of alpha-synuclein and poly(*N*-isopropylacrylamide) complex formation through detailed atomistic simulations

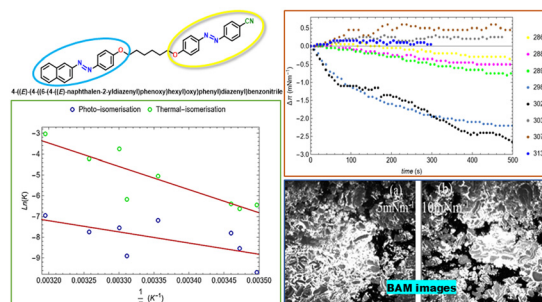
Sisem Ektirici and Vagelis Harmandaris\*



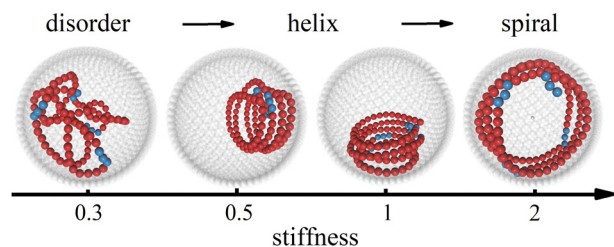
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# A study on the thermo-photoisomerization of a liquid crystalline dimer of cyanoazobenzene and naphthalene

Mahima Rabari, A. K. Prajapati,\* S. Mahesha, M. K. Akshaya and Bharat Kumar\*



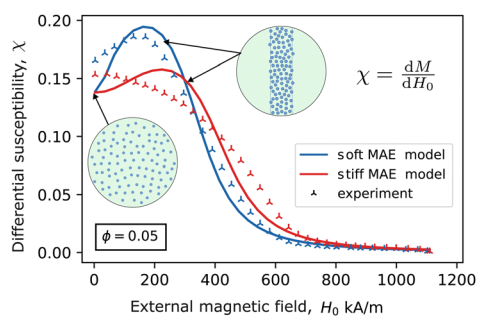
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### Spiral and helical formation of passive and active polymers with stiffness heterogeneity in a spherical cavity

Ran Yan, Shihang Liu and Nanrong Zhao\*

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### Influence of matrix stiffness on microstructure evolution and magnetization of magneto-active elastomers

Mehran Roghani,\* Dirk Romeis, Dmitry Borin and Marina Saphiannikova

