

# Soft Matter

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## IN THIS ISSUE

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### Cover

See Fatemeh Naderi Samani and Reza Foudazi, pp. 838–859. Image reproduced by permission of Fatemeh Naderi Samani from *Soft Matter*, 2026, 22, 838. Image created using AI.



### Inside cover

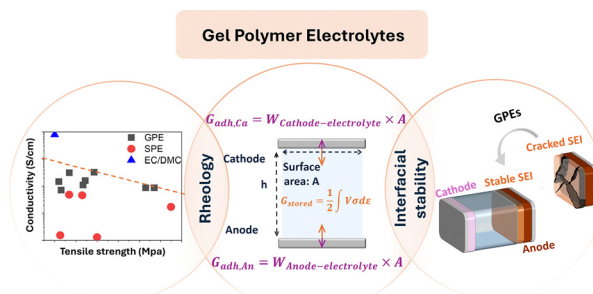
See C. Arauz-Moreno *et al.*, pp. 860–872. Image reproduced by permission of Carlos Arauz-Moreno from *Soft Matter*, 2026, 22, 860.

## PERSPECTIVE

838

### Gel polymer electrolytes: definitions, classification, rheology, and interfacial properties

Fatemeh Naderi Samani and Reza Foudazi\*

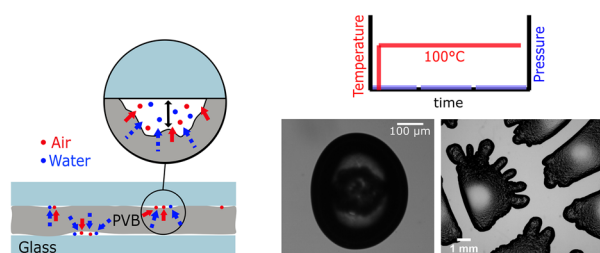


## PAPERS

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### Bubble growth in a confined heated polymer: the example of safety glass

C. Arauz-Moreno,\* K. Piroird and E. Lorenceau



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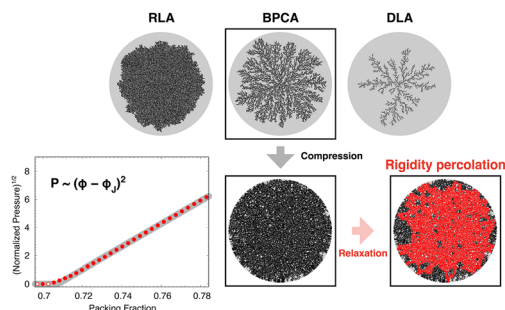
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873

## Compression-driven jamming in porous cohesive aggregates

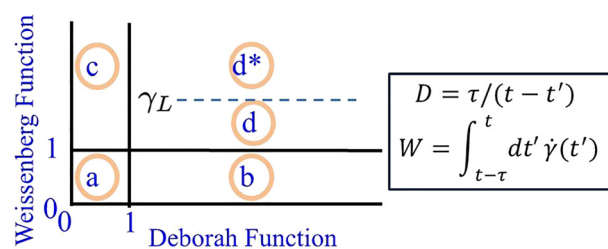
Sota Arakawa



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## Viscoelastic stress relaxation, fast and slow

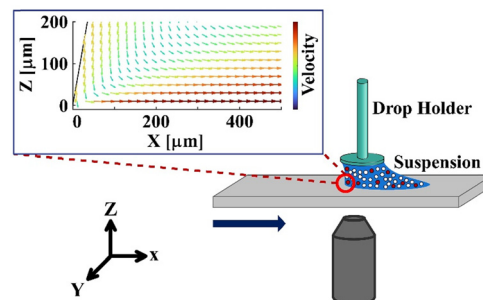
H. Henning Winter



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## Dynamic wetting by concentrated granular suspensions

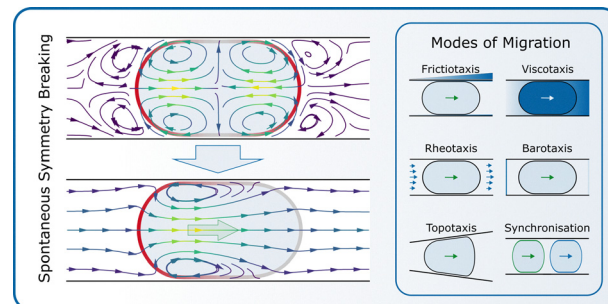
Reza Azizmalayeri, Peyman Rostami, Thomas Witzmann, Christopher O. Klein and Günter K. Auernhammer\*



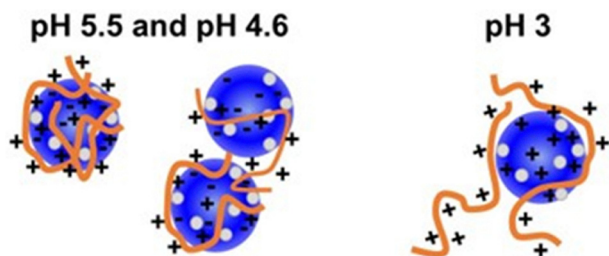
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## Modes of mechanical guidance of adhesion-independent cell migration

Hanna Luise Gertack, Peter A. E. Hampshire, Claudia Wohlgemuth, Ricard Alert and Sebastian Aland\*



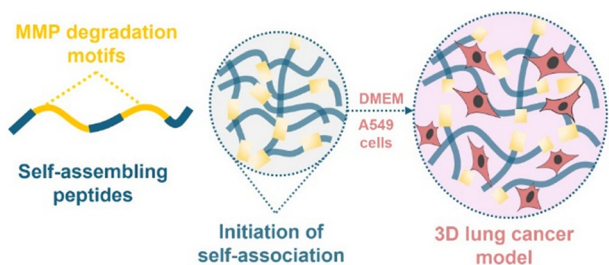
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### The role of charge regulation on casein–chitosan complexation at low pH

Rafael Leonardo Cruz Gomes da Silva, Nina S. Wang, Fernando L. Barroso da Silva and Denise F. S. Petri\*

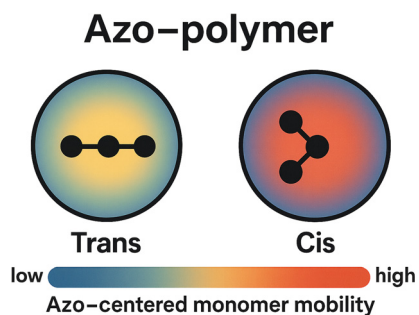
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### Development of self-assembled peptide hydrogels containing matrix-metalloproteinase degradable motifs for 3D lung cancer models

Burcu Sirma Tarim, Sedef Tamburacı and Ayben Top\*

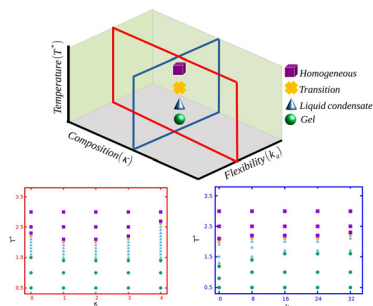
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### Isomer geometry controls local mobility in azopolymers: coarse-grained simulation insights

Cristian Balbuena

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### Effects of strong, monovalent and short-ranged monomer–monomer interactions on the phase separation of polymeric macromolecules

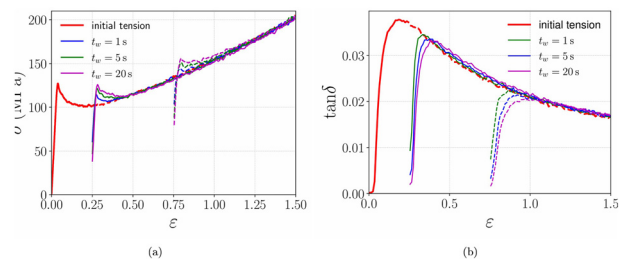
Masoud Mirzaei and Hossein Fazli\*



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## Memory and recovery effects in the strain hardening regime of glassy polymers: theory and simulations

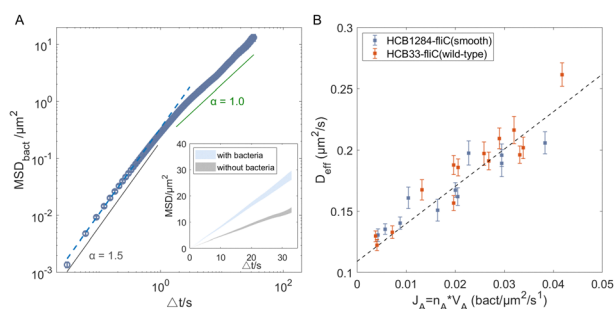
Thomas C. Merlette, Jérôme Hem, Caroline Crauste-Thibierge, Sergio Ciliberto, Jérôme Bikard and Didier R. Long\*



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## Swimming velocity modulates enhanced diffusion in bacterial suspensions

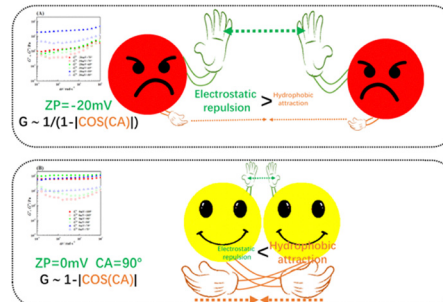
Shirui Ruan, Rui He,\* Rongjing Zhang\* and Junhua Yuan\*



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## Insights into emulsion viscoelasticity correlated with particle hydrophobicity and surface charge

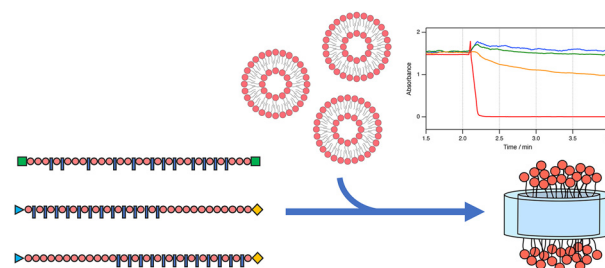
Yulong Jiang, Danhua Xie,\* Jinquan Zheng and Jianbo Wu



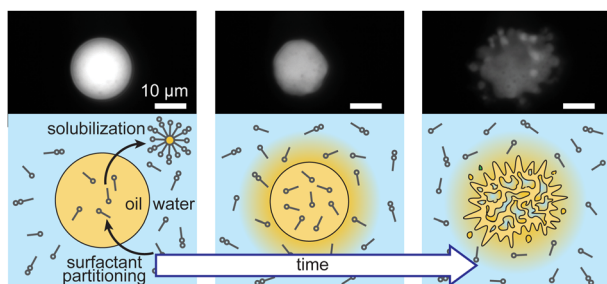
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## Influence of block microstructure on the interaction of styrene-maleic acid copolymer aggregates and lipid nanodiscs

George M. Neville, Aya A. Nasser, James Douth, Stephen King, Pedro Estrela, Paul Whitley, Gareth J. Price\* and Karen J. Edler\*



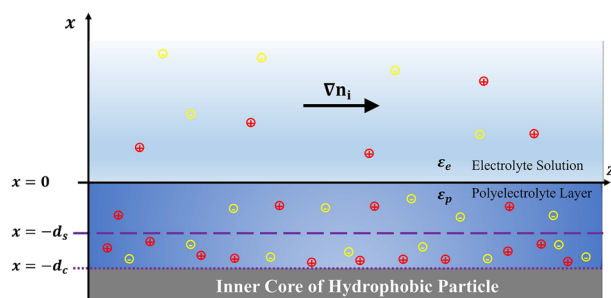
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### Nonequilibrium surfactant partitioning into microdroplets generates local phase inversion conditions and interfacial instability

Samuel G. Birrer, Sanjana Krishna Mani, Bryan Kaehr, Ayusman Sen and Lauren D. Zarzar\*

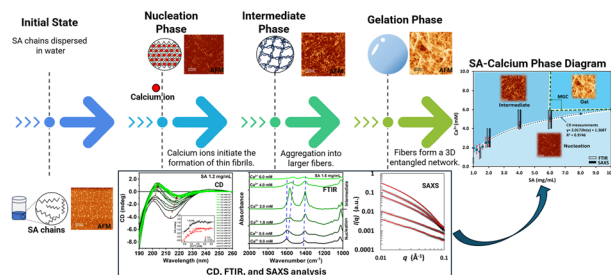
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### Impact of slipping plane location and ion-partitioning on the diffusiophoresis of soft particles with hydrophobic inner core

Santanu Saha,\* Saurabh K. Maurya, Hiroyuki Ohshima and Partha P. Gopmandal

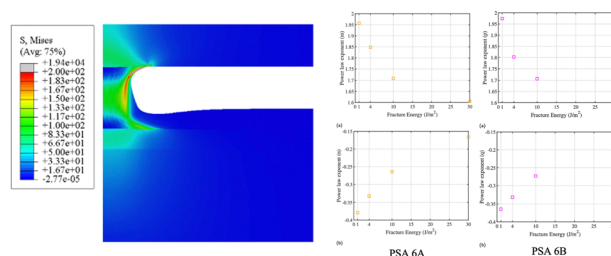
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### Structural phases in $\text{Ca}^{2+}$ -triggered alginate assembly and gelation: circular dichroism-guided multimodal analysis

Tatsuki Haga, Satoshi Hashimoto, Masaya Yoshida, Yudai Ono, Takeharu Haino, Yasuyuki Maki, Koichi Matsuo\* and Mohamed I. A. Ibrahim\*

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### Stretching and debonding of adhesive fibril

Krupal Patel,\* Matteo Ciccotti and Etienne Barthel

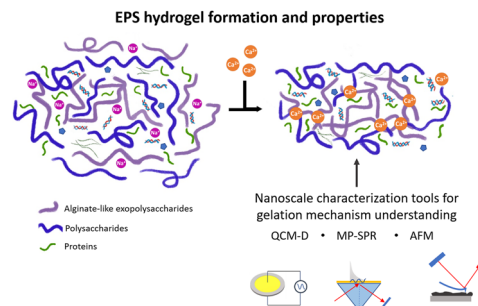


## PAPERS

1054

### Understanding extracellular polymeric substances (EPS)-based hydrogel formation and properties at the nanoscale through MP-SPR and QCM-D techniques

Lisa Lopes da Costa, Abdo Bou-Sarkis, Corinne Rondeau-Mouro, Yolaine Bessiere, Céline Moreau and Ana Villares\*



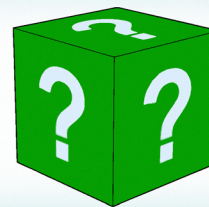
## COMMENT

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### Comment on "Coarsening in bent-core liquid crystals: a molecular dynamics study" by N. Birdi, N. B. Wilding, S. Puri and V. Banerjee, *Soft Matter*, 2025, 21, 4606

Wojciech Tomczyk\* and Piotr Kubala

What liquid crystal phase is in that simulation box?



There is more than meets the eye!

