

# Soft Matter

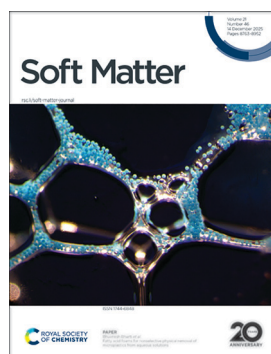
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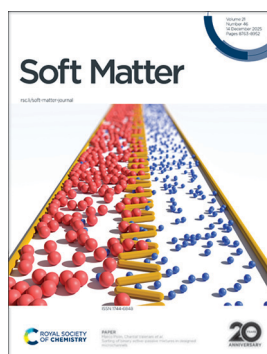
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ISSN 1744-6848 CODEN SMOABF 21(46) 8763-8952 (2025)



### Cover

See Bhuvnesh Bharti *et al.*, pp. 8771–8780. Image reproduced by permission of Bhuvnesh Bharti from *Soft Matter*, 2025, 21, 8771.



### Inside cover

See Marco Polin, Chantal Valeriani *et al.*, pp. 8781–8792. Image reproduced by permission of Chantal Valeriani from *Soft Matter*, 2025, 21, 8781.

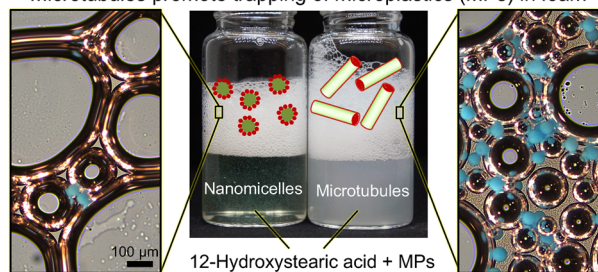
## PAPERS

8771

### Fatty acid foams for nonselective physical removal of microplastics from aqueous solutions

Kennedy A. Guillot, Philip J. Brahana, Joseph C. Romanos, Gernot Rother, Michael G. Benton and Bhuvnesh Bharti\*

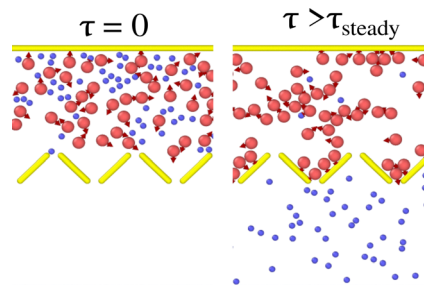
Microtubules promote trapping of microplastics (MPs) in foam



8781

### Sorting of binary active–passive mixtures in designed microchannels

Horacio Serna, C. Miguel Barriuso G., Ignacio Pagonabarraga, Marco Polin\* and Chantal Valeriani\*



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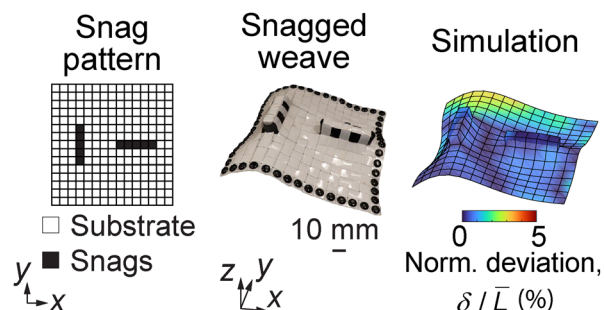
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### Engineering snags for spatial curvature in weaves: fabrication, mechanics, and inverse design

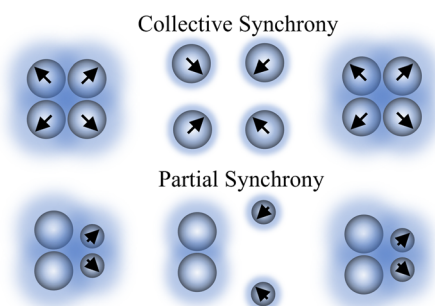
Guowei Wayne Tu and Evgueni T. Filipov\*



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### Synchronization modes of chitosan surfers with various sizes

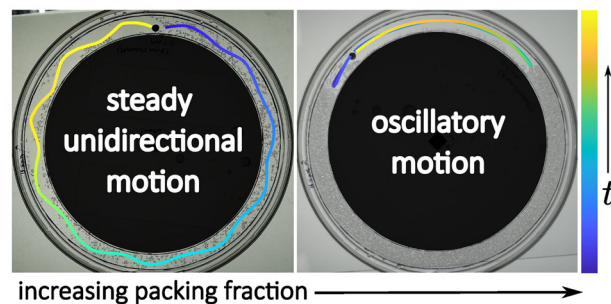
Bálint Gárdi, Pawan Kumar, Dezső Horváth and Ágota Tóth\*



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### A Marangoni swimmer pushing a particle raft under 1D confinement

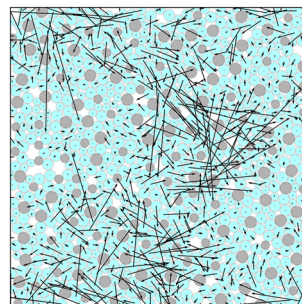
Abhradeep Maitra,\* Anupam Pandey, Sebastien Michelin and Sunghwan Jung\*



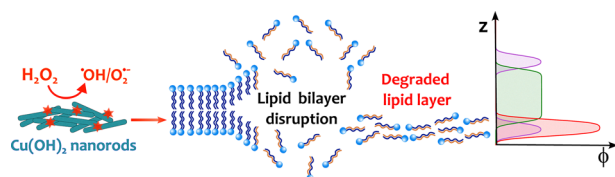
8824

### Particle pinning as a method to manipulate marginal stability

Kumpei Shiraishi and Yusuke Hara



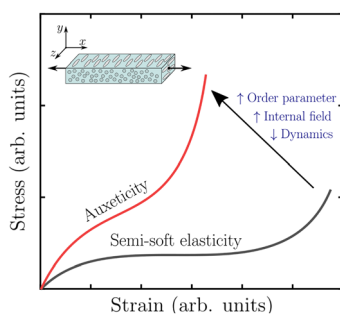
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### Oxidative destabilization of model *E. coli* membrane by $\text{Cu}(\text{OH})_2$ nanoparticles: a neutron reflectometry study

Samantha Micciulla,\* Hayden Robertson, Nicoló Paracini and Gwenaël Corbel\*

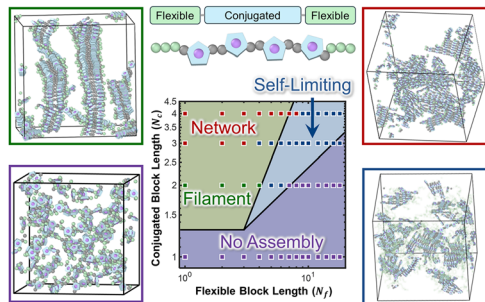
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### Resolving the mechanical response of liquid crystal elastomers – semi-soft elastic or auxetic

Thomas Raistrick,\* Matthew Reynolds, Emily J. Cooper, Jordan Hobbs, Victor Reshetnyak and Helen F. Gleeson

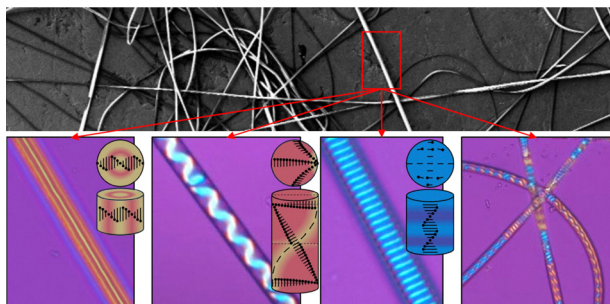
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### Entropically controlled assemblies of conjugated amphiphiles

Xiangyu Zhang and Thi Vo\*

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### Metastable structures in electrospun microfibers with a long-pitch chiral nematic liquid crystal core

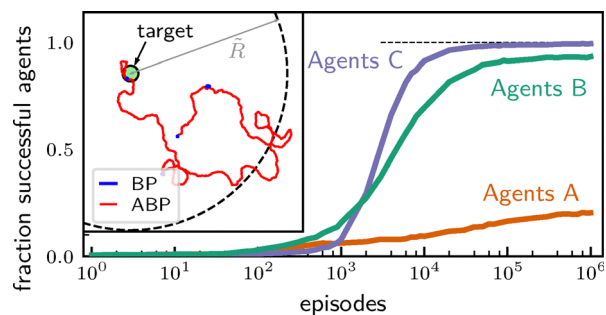
Matthew D. Thum, Daniel C. Ratchford, Jeffrey G. Lundin and Jakub Kotacz\*



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**Run-and-tumble particles learning chemotaxis**

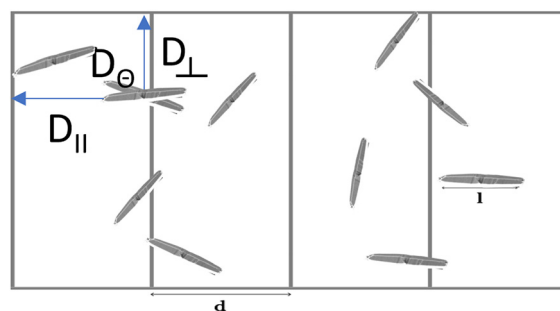
Nicholas Tovazzi, Gorka Muñoz-Gil and Michele Caraglio\*



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**Buffon's Brownian needles: harnessing thermal motion for stochastic sampling**

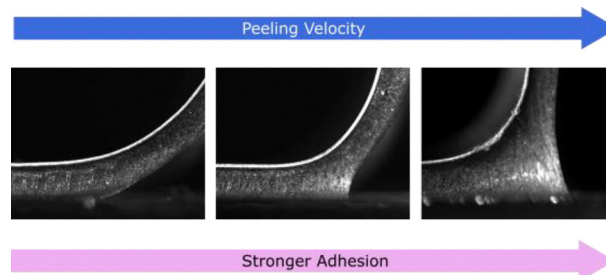
Charlie Maslen, Luke Nicholson and Juliane Simmchen\*



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**The origin of high adherence in PSA foam tapes**

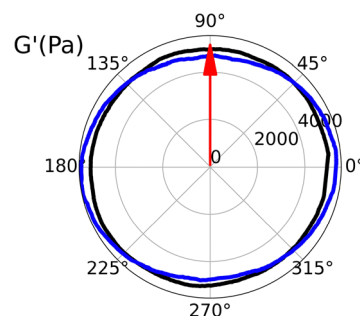
Antoine Fleury, Bruno Bresson, Chung Yuen Hui, Eric Desnoux, Costantino Creton, Etienne Barthel and Matteo Ciccotti\*



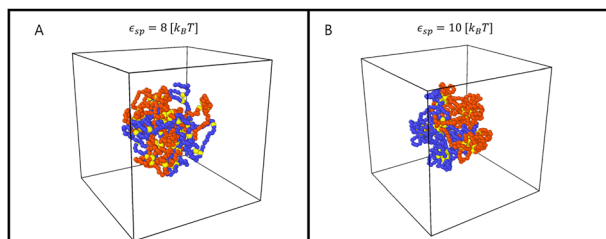
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**Shear-induced mechanical anisotropy in concentrated emulsions: a pump probe mechanical spectroscopy study**

Nicolas Beyer, Lorry Engel and Pascal Hébraud\*



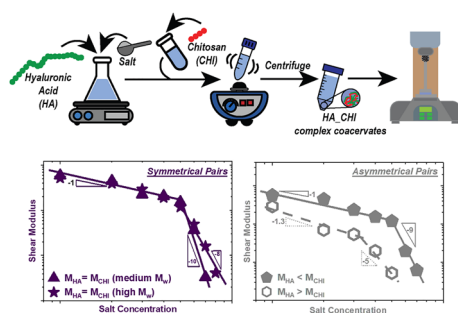
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### Effects of cross-linking on spatial organization and dynamics of confined associating polymers

Arie Pyasik,\* Yuval Garini\* and Yitzhak Rabin\*

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### Assessing the dynamics of symmetric and asymmetric hyaluronic acid–chitosan complex coacervates

Roshan Akdar Mohamed Yunus, Roos Poelman, Abinaya Arunachalam, Marleen Kamperman and Daniele Parisi\*

