

# Soft Matter

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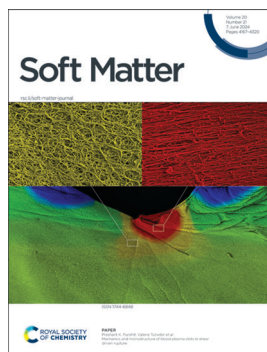
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ISSN 1744-6848 CODEN SMOABF 20(21) 4167-4320 (2024)



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See Jasna Brujic *et al.*, pp. 4175–4183. Image reproduced by permission of Jasna Brujic and Lucas Sixdenier from *Soft Matter*, 2024, 20, 4175.



### Inside cover

See Prashant K. Purohit, Valerie Tutwiler *et al.*, pp. 4184–4196. Image reproduced by permission of Valerie Tutwiler and Ranjini Ramanujam from *Soft Matter*, 2024, 20, 4184.

## PROFILE

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### Ulli Steiner: perfect colleague

Jeremy Baumberg

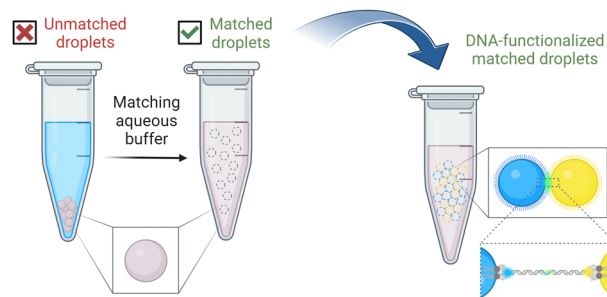


## PAPERS

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### Refractive-index and density-matched emulsions with programmable DNA interactions

Wenjun Chen, Lucas Sixdenier, Angus McMullen, David G. Grier and Jasna Brujic\*



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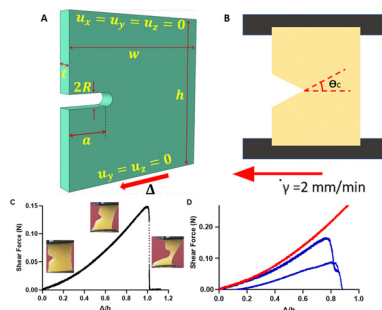
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### Mechanics and microstructure of blood plasma clots in shear driven rupture

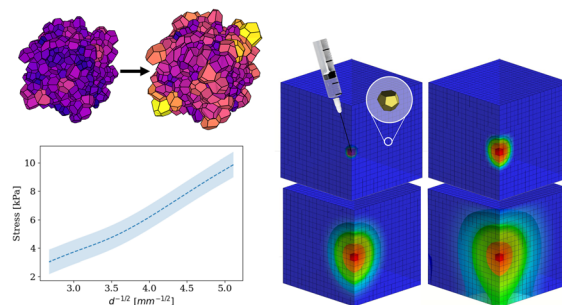
Ranjini K. Ramanujam, Konstantinos Garyfallogiannis, Rustem I. Litvinov, John L. Bassani, John W. Weisel, Prashant K. Purohit\* and Valerie Tutwiler\*



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### Geometry of adipocyte packing in subcutaneous tissue contributes to nonlinear tissue properties captured through a Gaussian process surrogate model

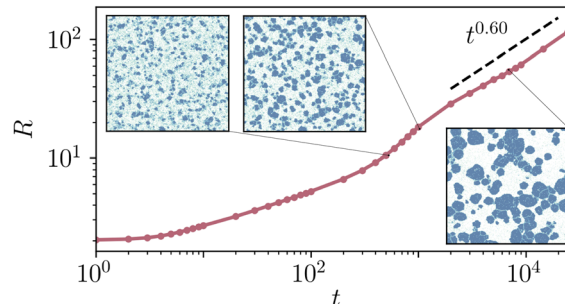
Jacques Barsimantov Mandel, Luis Solorio and Adrian Buganza Tepole\*



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### Phase separation kinetics and cluster dynamics in two-dimensional active dumbbell systems

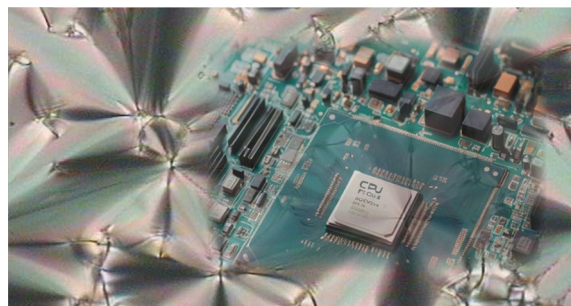
C. B. Caporusso, L. F. Cugliandolo, P. Digregorio,\* G. Gonnella and A. Suma



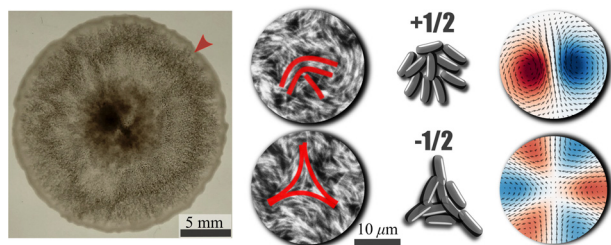
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### Possibilities and limitations of convolutional neural network machine learning architectures in the characterisation of achiral orthogonal smectic liquid crystals

Rebecca Betts and Ingo Dierking\*



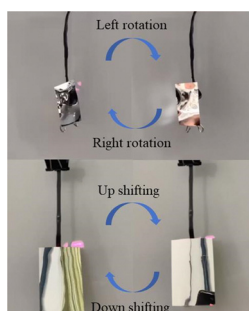
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### Topological defects in multi-layered swarming bacteria

Victor Yashunsky,\* Daniel J. G. Pearce, Gil Ariel\* and Avraham Be'er\*

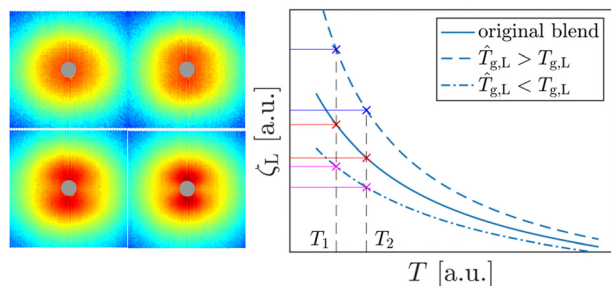
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### Liquid crystalline elastomer self-oscillating fiber actuators fabricated from soft tubular molds

Yuying Sun, Yanli Men, Shiyu Liu, Xiuxiu Wang and Chensha Li\*

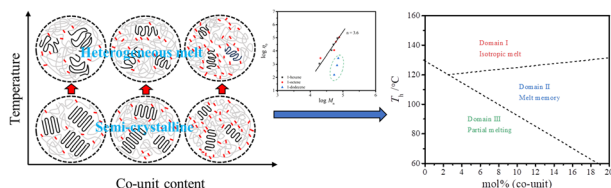
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### The influence of elongation-induced concentration fluctuations on segmental friction in polymer blends

Yangyang Wang,\* Shalin Patil, Shiwang Cheng\* and Changwoo Do

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### Melt memory in random ethylene-1-alkene copolymers

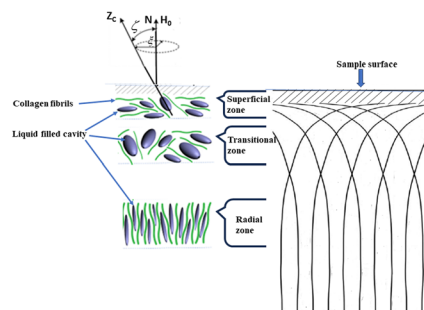
Yunxiang Shi, Jingqing Li, Hongfei Li,\* Bin Zhang,\* Jesper de Claville Christiansen, Donghong Yu\* and Shichun Jiang\*



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### Study of the collagen tissue nanostructure by analyzing the echo decay obtained using the MRI technique

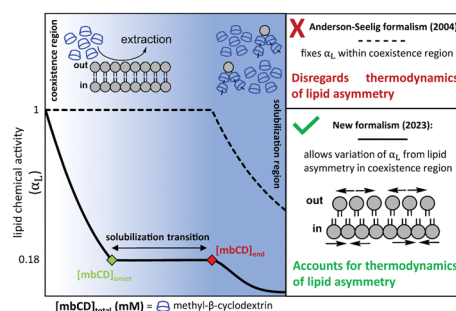
Theodore Aptekarev, Gregory Furman,\* Farid Badar, Vladimir Sokolovsky and Yang Xia



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### Methyl- $\beta$ -cyclodextrin asymmetrically extracts phospholipid from bilayers, granting tunable control over differential stress in lipid vesicles

Tyler Reagle, Yuxin Xie, Zheyuan Li, Warner Carnero and Tobias Baumgart\*



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### Compositional asymmetry in a crystalline–amorphous block copolymer influences the phase and crystallization behaviors of its blend with an amorphous block copolymer

Kuang-Hsin Wu, Chia-Pei Hsieh and Chieh-Tsung Lo\*

