

# Soft Matter

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ISSN 1744-6848 CODEN SMOABF 21(8) 1429–1594 (2025)



### Cover

See Ernesto Di Maio *et al.*, pp. 1455–1470.  
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### Inside cover

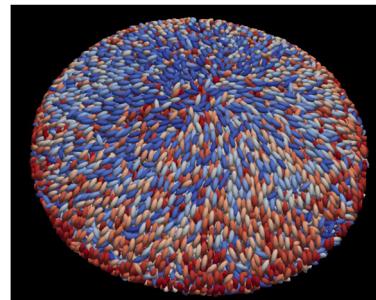
See Ryota Tamate *et al.*, pp. 1471–1478.  
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## PERSPECTIVE

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### Morphogenesis of confined biofilms: how mechanical interactions determine cellular patterning and global geometry

Kee-Myoung Nam and Jing Yan\*

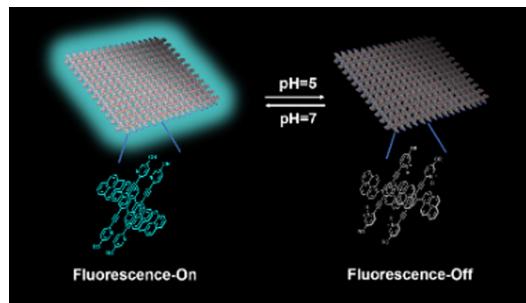


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### Fluorescence-switching 2-D sheet structure formed by self-assembly of cruciform aromatic amphiphiles

Wei Zhang, Yongsheng Li, Tianyi Zheng, Ying Xie,\* Xianyin Dai and Myongsoo Lee\*



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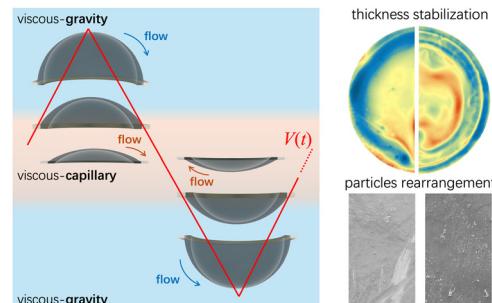


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**Thin free-standing liquid films manipulation: device design to turn on/off gravity in flow regimes for thickness map control and for material structuring**

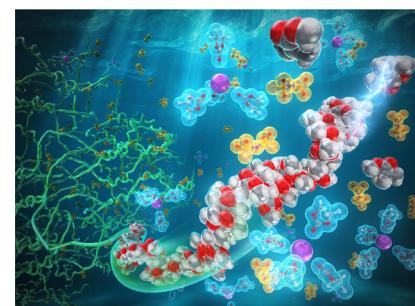
Paolo Iaccarino, Zhe Wang, Andrea Marfuggi, Simone Russo, Vincenzo Ferraro, Giuseppe Vitiello, Sara Coppola and Ernesto Di Maio\*



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***In situ* formation of ultrahigh molecular weight polymers in highly concentrated electrolytes and their physicochemical properties**

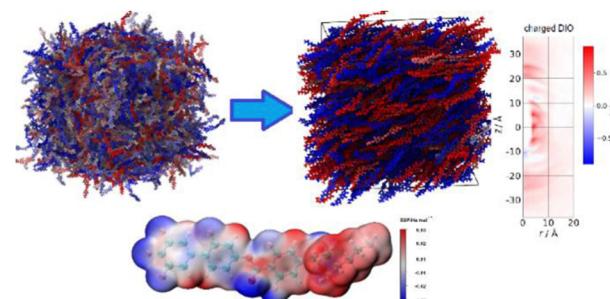
Yuji Kamiyama, Takeshi Ueki and Ryota Tamate\*



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**Impact of charge distribution on the stability of ferroelectric nematic liquid crystals**

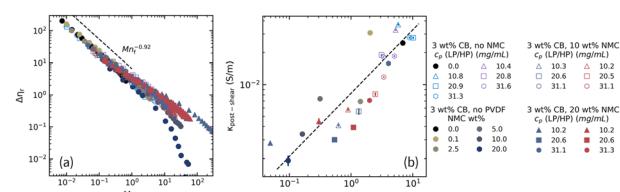
Matheus de Mello,\* Mark Richard Wilson and Takeaki Araki\*



1489

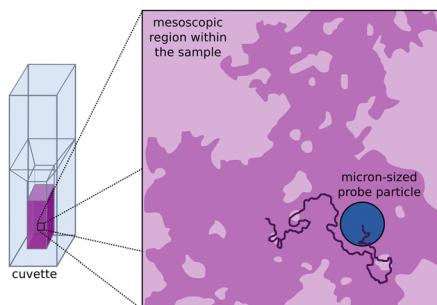
**Physical scaling for predicting shear viscosity and memory effects of lithium-ion battery cathode slurries**

Yoshita Gupta, Qingsong Liu and Jeffrey J. Richards\*



## PAPERS

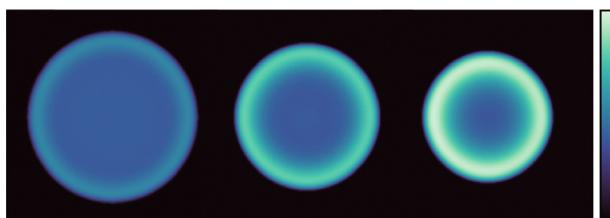
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### Microrheological model for Kelvin–Voigt materials with micro-heterogeneities

T. N. Azevedo, K. M. Oliveira, H. P. Maia, A. V. N. C. Teixeira and L. G. Rizzi\*

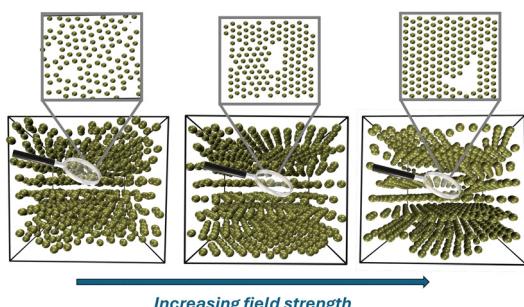
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### Diffusive evaporation dynamics in polymer solutions is ubiquitous

Max Huisman, Wilson C. K. Poon, Patrick B. Warren, Simon Titmuss and Davide Marenduzzo\*

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### Structural transitions of ionic microgel solutions driven by circularly polarized electric fields

Markus Reich, Thiago Colla\* and Christos N. Likos

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### Collective dynamics of intelligent active Brownian particles with visual perception and velocity alignment in 3D: spheres, rods, and worms

Zhaoxuan Liu and Marjolein Dijkstra\*

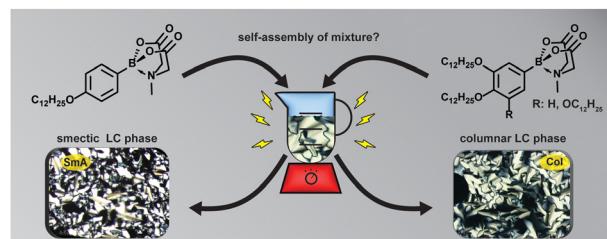


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**Liquid crystalline self-assembly of mixtures of rod- and wedge-shaped MIDA boronates**

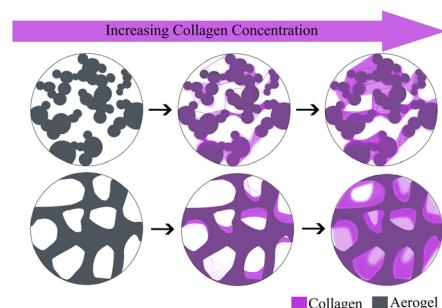
Christopher Schilling, Soeren M. Bauch, Eugen Wuckert, Anna Zens, Johanna R. Bruckner and Sabine Laschat\*



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**Influence of aerogel mechanical properties on collagen micromorphology and its architecture**

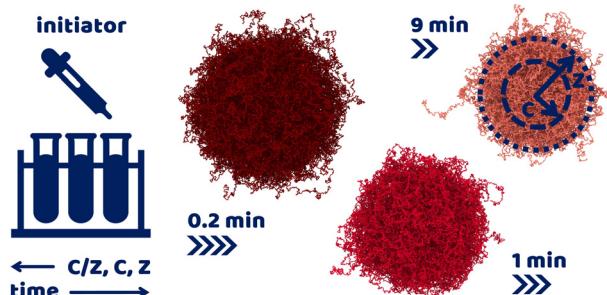
Martina Rodriguez Sala, Omar Skalli, Swetha Chandrasekaran, Marcus Worsley, Nicholas Leventis and Firouzeh Sabri\*



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**Fine-tuning the architecture of microgels by varying the initiator addition time**

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**Viscoelastic behavior of wormlike micellar solutions formed by an aspartame-based bicephalous anionic surfactant**

Bin Qiu, Zhao Chen, Xiaomei Pei, Zhenggang Cui and Binglei Song\*

