

# Soft Matter

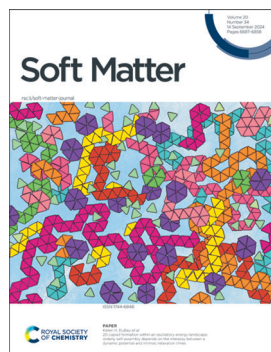
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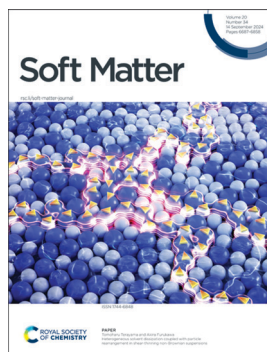
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ISSN 1744-6848 CODEN SMOABF 20(34) 6687-6858 (2024)



### Cover

See Kateri H. DuBay *et al.*, pp. 6702–6713. Image reproduced by permission of Jessica K. Niblo from *Soft Matter*, 2024, 20, 6702.



### Inside cover

See Tomoharu Terayama and Akira Furukawa, pp. 6714–6722. Image reproduced by permission of Akira Furukawa from *Soft Matter*, 2024, 20, 6714.

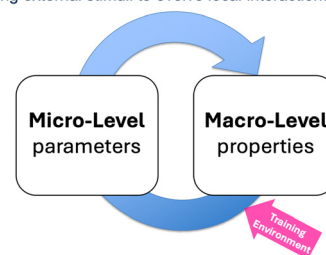
## PERSPECTIVE

6695

### Training physical matter to matter

Heinrich M. Jaeger,\* Arvind Murugan and Sidney R. Nagel

Training for Adaptive Functionality  
by using external stimuli to evolve local interactions & structure

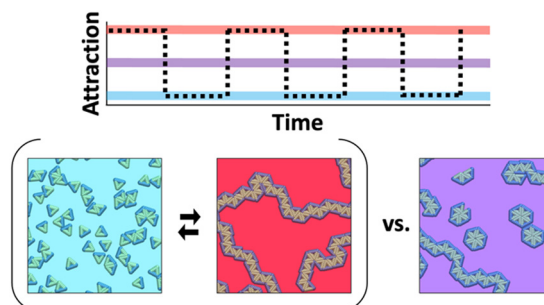


## PAPERS

6702

### 2D capsid formation within an oscillatory energy landscape: orderly self-assembly depends on the interplay between a dynamic potential and intrinsic relaxation times

Jessica K. Niblo, Jacob R. Swartley, Zhongmin Zhang and Kateri H. DuBay\*



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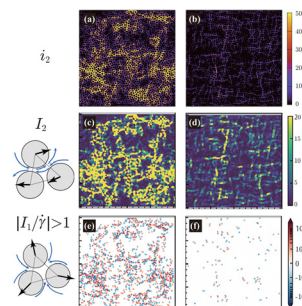
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6714

### Heterogeneous solvent dissipation coupled with particle rearrangement in shear-thinning non-Brownian suspensions

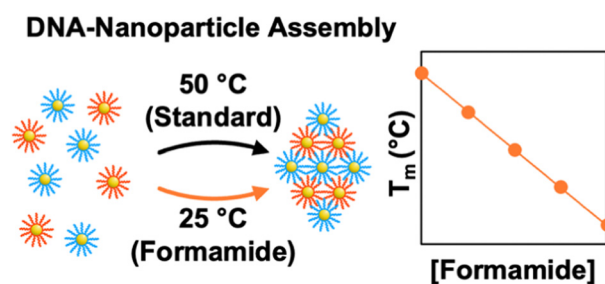
Tomoharu Terayama\* and Akira Furukawa\*



6723

### Controlling the thermally-driven crystallization of DNA-coated nanoparticles with formamide

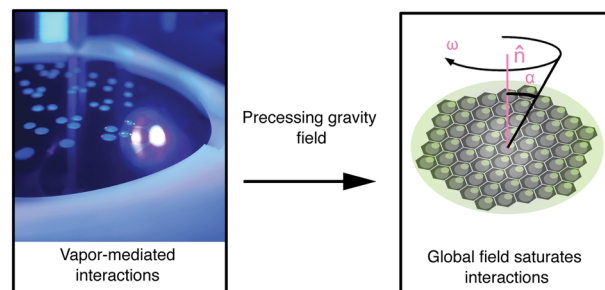
Theodore Hueckel, Seungyeon Woo and Robert J. Macfarlane\*



6730

### Droplet tilings in precessive fields: hysteresis, elastic defects, and annealing

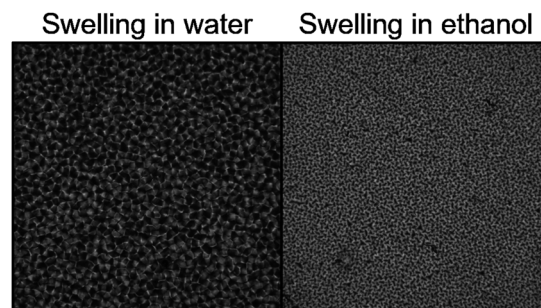
Anton Molina and Manu Prakash\*



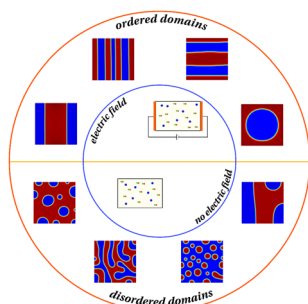
6742

### Unconstrained dynamic gel swelling generates transient surface deformations

Alyssa VanZanten, Shih-Yuan Chen, Michelle M. Driscoll and Caroline R. Szczepanski\*



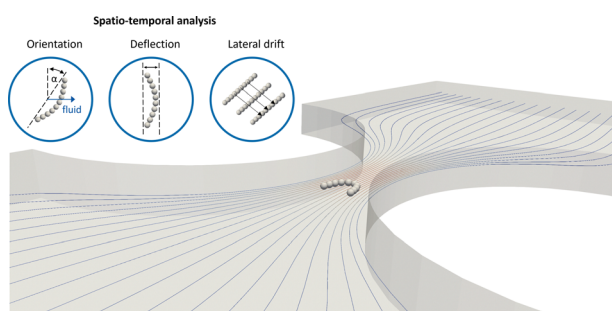
6754



## Ordered patterns in electroactive polymer ionic liquid blends: effect of long range interactions

Ashima Choudhury and Pratyush Dayal\*

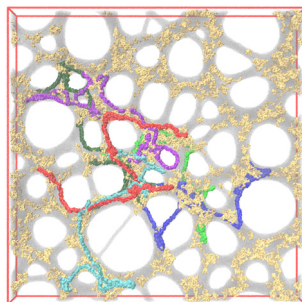
6767



## Transport and clogging dynamics of flexible rods in pore constrictions

Berinke Bräsel, Matthias Geiger, John Linkhorst and Matthias Wessling\*

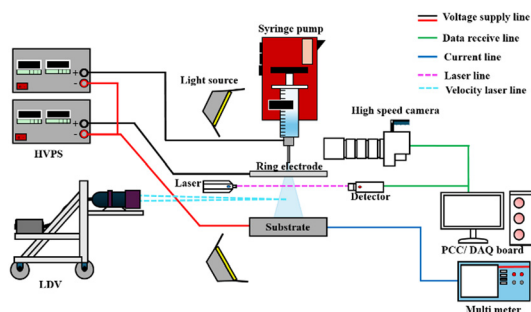
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## Stable polydisperse free-standing porous films made by mechanical deformation

Hsiao-Ping Hsu and Kurt Kremer\*

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## Effects of structural variation in electro spray systems on spray characteristics

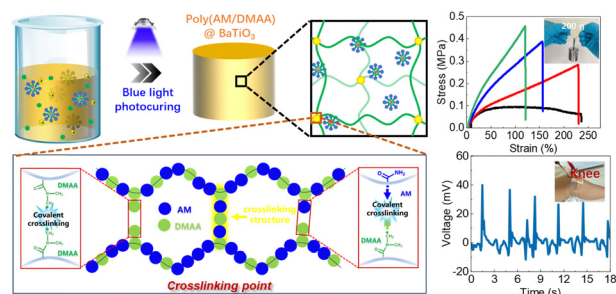
Ji Yeop Kim, Sang ji Lee, Mun Hee Lee, Jun Yeop Kim and Jung Goo Hong\*



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## A tough and piezoelectric poly(acrylamide/*N,N*-dimethylacrylamide) hydrogel-based flexible wearable sensor

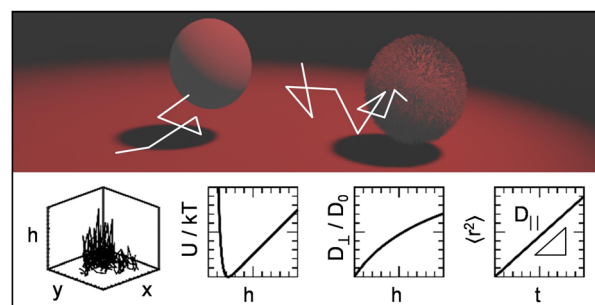
Mingyue Wu, Guohui Wang, Mihan Zhang, Jinchao Li, Chenglong Wang,\* Guangdong Sun\* and Jinhuan Zheng



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## Direct measurements & simplified models of colloidal interactions & diffusion with adsorbed macromolecules

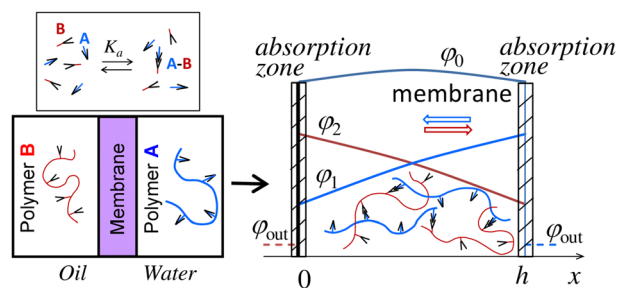
Mikael O. Ellingson and Michael A. Bevan\*



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## Growth of membranes formed by associating polymers at interfaces

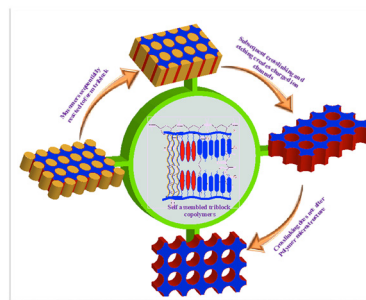
Elena N. Govorun,\* Julien Dupré de Baubigny, Patrick Perrin, Mathilde Reyssat, Nadège Pantoustier, Thomas Salez and Cécile Monteux\*



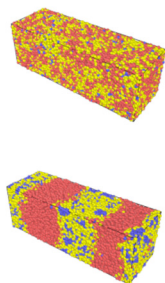
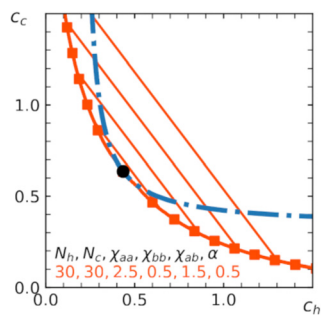
6834

## Ionic nanoporous membranes from self-assembled liquid crystalline brush-like imidazolium triblock copolymers

Iyomali Abeysekera, Reuben Bosire, Francis K. Masese, Dennis Ndaya\* and Rajeswari M. Kasi\*



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## Phase separation in soft repulsive polymer mixtures: foundation and implication for chromatin organization

Naoki Iso, Yuki Norizoe and Takahiro Sakaue\*

