

# Soft Matter

Where physics meets chemistry meets biology for fundamental soft matter research

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## IN THIS ISSUE

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### Cover

See Alexandre Delory  
et al., pp. 1983–1995.  
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Maxime Lanoy and Fabrice  
Lemoult  
from *Soft Matter*,  
2024, 20, 1983.

## OBITUARY

1964

### In memoriam Stefan U. Egelhaaf (17 June 1963–22 November 2023)

Manuel A. Escobedo-Sánchez,\* Marco Laurati,  
Hartmut Löwen, Wilson C. K. Poon,  
Peter N. Pusey and Peter Schurtenberger

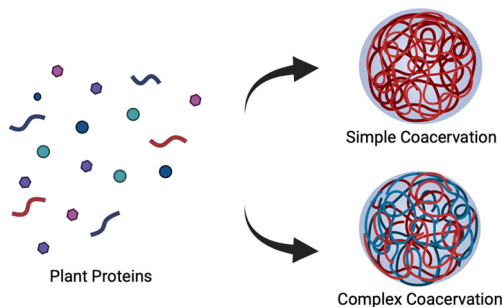


## REVIEW

1966

### Simple and complex coacervation in systems involving plant proteins

Nirzar Doshi, Wei Guo, Feipeng Chen, Paul Venema,  
Ho Cheung Shum, Renko de Vries\* and Xiufeng Li\*



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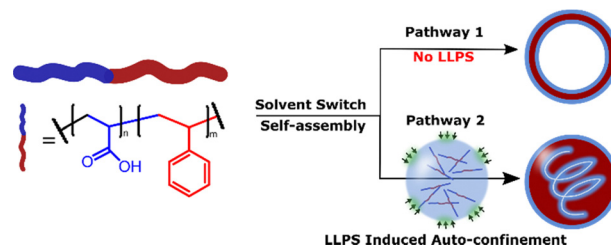
Fundamental questions  
Elemental answers

## COMMUNICATION

1978

**Liquid–liquid phase separation induced auto-confinement**

Aoon Rizvi and Joseph P. Patterson\*

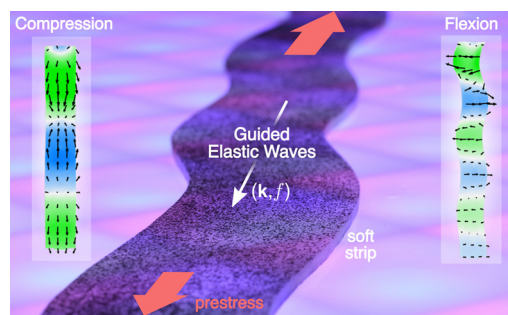


## PAPERS

1983

**Viscoelastic dynamics of a soft strip subject to a large deformation**

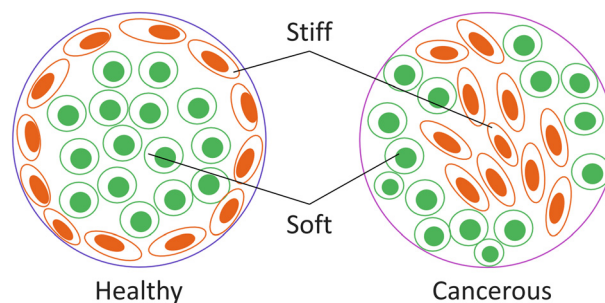
Alexandre Delory,\* Daniel A. Kiefer, Maxime Lanoy, Antonin Eddi, Claire Prada and Fabrice Lemoult



1996

**Effect of non-linear strain stiffening in eDAH and unjamming**

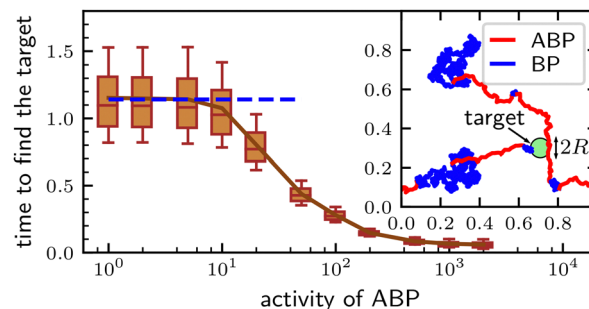
Xiaofan Xie, Frank Sauer, Steffen Grosser, Jürgen Lippoldt, Enrico Warnt, Amit Das, Dapeng Bi, Thomas Fuhs and Josef A. Käs\*



2008

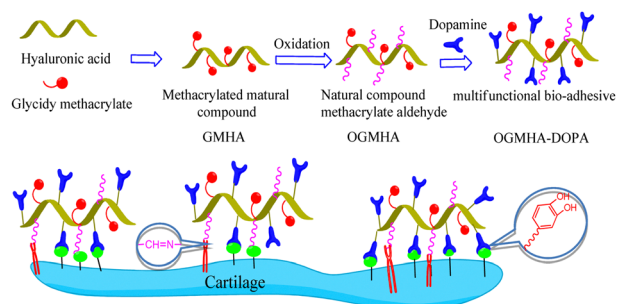
**Learning how to find targets in the micro-world: the case of intermittent active Brownian particles**

Michele Caraglio,\* Harpreet Kaur, Lukas J. Fiderer, Andrea López-Incera, Hans J. Briegel, Thomas Franosch and Gorka Muñoz-Gil



## PAPERS

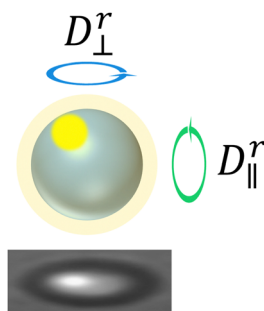
2017



### A nature-inspired multifunctional adhesive for cartilage tissue—biomaterial integration

Bin Chu,\* Yun-Feng Chu, Jin-Mei He, Zhi-Wei Lin, Chang-Sheng Chen, Song Wang, Wei-Qiang Liu and Xiao-Li Li\*

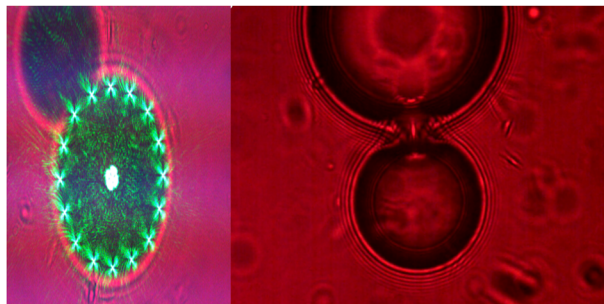
2024



### Rotational diffusion of colloidal microspheres near flat walls

Virginia Carrasco-Fadanelli, Yushan Mao, Tomoki Nakakomi, Haonan Xu, Jun Yamamoto, Taiki Yanagishima\* and Ivo Buttinoni

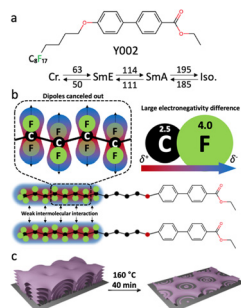
2032



### Trapping and manipulation of bubbles with holographic optical tweezers

Juan Manuel Molina-Jiménez, Beatriz Morales-Cruzado, Zenaida Briceño-Ahumada, Virginia Carrasco-Fadanelli and Erick Sarmiento-Gómez\*

2040



### Sublimation of isolated toric focal conic domains on micro-patterned surfaces

Wantae Kim, Eduardo Vitral, Perry H. Leo, Jorge Viñals,\* Dae Seok Kim\* and Dong Ki Yoon\*



## PAPERS

2052

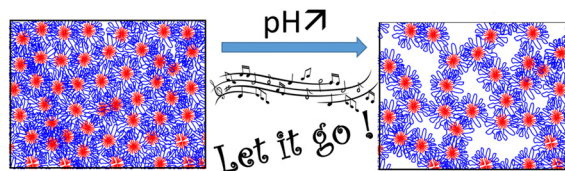
### pH-controlled breakup of fractal aggregates, microgels and gels formed by self-assembled amphiphilic triblock copolymers

Gireeshkumar Balakrishnan, Marli Miriam De Souza Lima, Frederick Niepceron, Olivier Colombani, Taco Nicolai\* and Christophe Chassenieux\*

#### FROZEN HYDROGELS

based on self-assembled  
amphiphilic triblocks

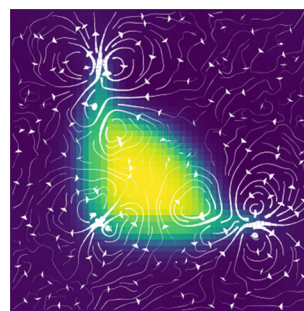
Breakup with  
pH-controlled speed



2060

### Partial and complete wetting of droplets of active Brownian particles

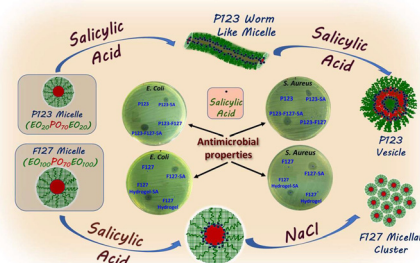
Francesco Turci,\* Robert L. Jack and Nigel B. Wilding



2075

### Structural and therapeutic properties of salicylic acid-solubilized Pluronic solutions and hydrogels

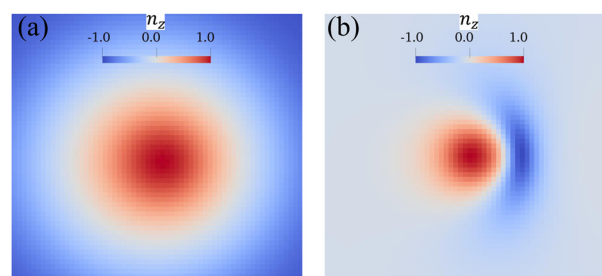
R. Ganguly,\* S. Kumar, M. Soumya, A. Khare, K. C. Bhainsa, V. K. Aswal and J. Kohlbrecher



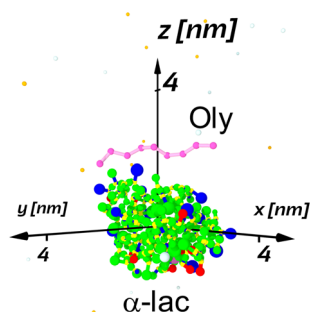
2088

### Particle-based model of liquid crystal skyrmion dynamics

A. W. Teixeira,\* M. Tasinkevych and C. S. Dias



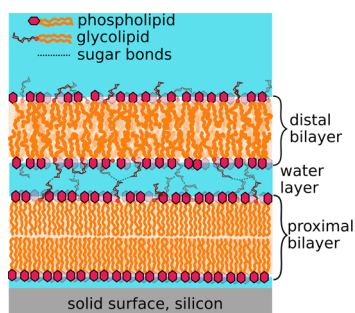
2100



### Modulation of the electrostatic potential around $\alpha$ -lactalbumin using oligoelectrolyte chains, pH and salt concentration

Paola B. Torres, Sofia Baldor, Evelina Quiroga, Antonio Jose Ramirez-Pastor, Dario Spelzini, Valeria Boeris and Claudio F. Narambuena\*

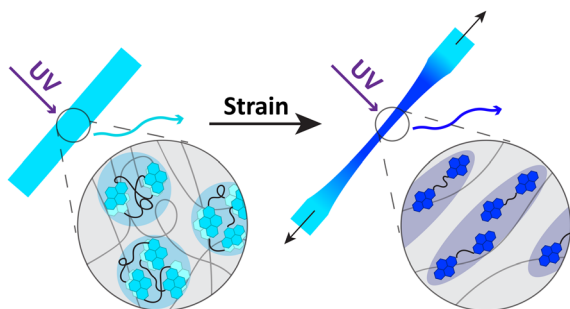
2113



### Influence of adhesion-promoting glycolipids on the structure and stability of solid-supported lipid double-bilayers

Lukas Bange, Tetiana Mukhina, Giovanna Fragneto, Valeria Rondelli\* and Emanuel Schneck\*

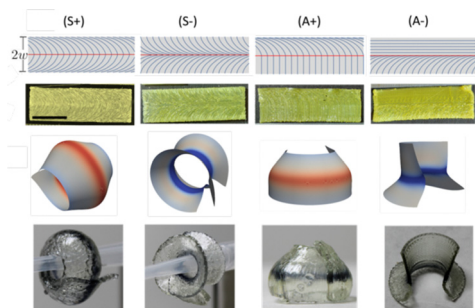
2126



### Mechanochromic polymer blends made with an excimer-forming telechelic sensor molecule

Marta Oggioni, Jess M. Clough and Christoph Weder\*

2132



### Geometry, mechanics and actuation of intrinsically curved folds

Fan Feng, Klaudia Dradrach, Michał Zmyślony, Morgan Barnes and John S. Biggins\*

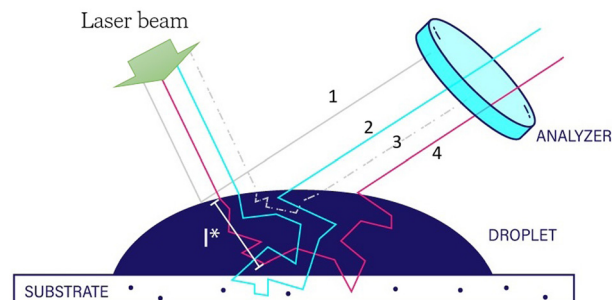


## PAPERS

2141

# Dynamics of individual inkjet printed picoliter droplet elucidated by high speed laser speckle imaging

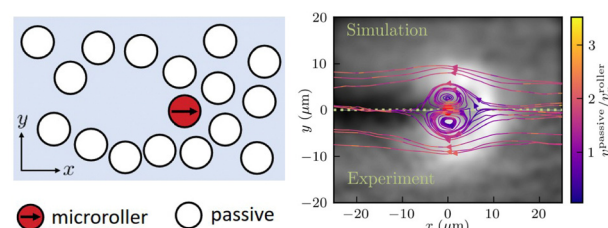
Riccardo Antonelli, Remco Fokkink, Joris Sprakel and Thomas E. Kodger\*



2151

# Restructuring a passive colloidal suspension using a rotationally driven particle

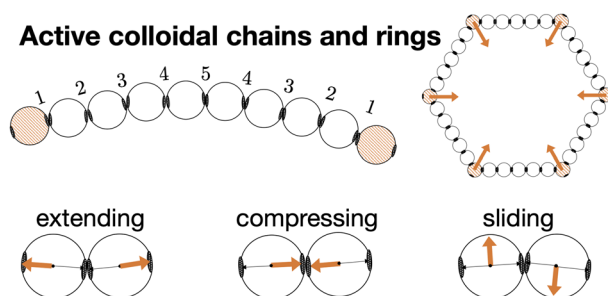
Shih-Yuan Chen, Hector Manuel Lopez Rios, Monica Olvera de la Cruz\* and Michelle Driscoll\*



2162

# Activity affects the stability, deformation and breakage dynamics of colloidal architectures

H. J. Jonas\*, P. Schall and P. G. Bolhuis



2178

# Luminescent solvent-free liquids based on Schiff-base boron difluoride complexes with polyethylene glycol chains

Masahiro Ikeshita\*, Miku Ichinose and Takashi Tsuno\*

