

# Soft Matter

Where physics meets chemistry meets biology for fundamental soft matter research

[rsc.li/soft-matter-journal](https://rsc.li/soft-matter-journal)

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

## IN THIS ISSUE

ISSN 1744-6848 CODEN SMOABF 20(9) 1955-2186 (2024)



### Cover

See Alexandre Delory *et al.*, pp. 1983–1995. Image reproduced by permission of 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

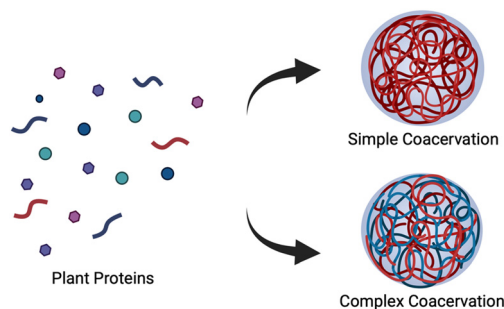


## REVIEW

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\*



# RSC Applied Interfaces

GOLD  
OPEN  
ACCESS

Interfacial and surface research  
with an applied focus

Interdisciplinary and open access



[rsc.li/RSCApplInter](https://rsc.li/RSCApplInter)

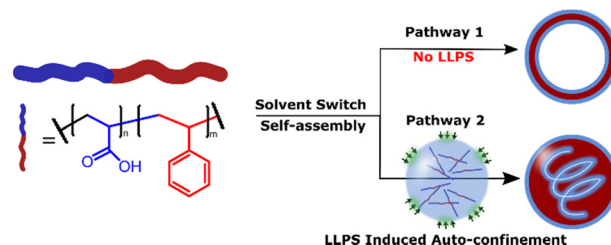
Fundamental questions  
Elemental answers

## COMMUNICATION

1978

## Liquid–liquid phase separation induced auto-confinement

Aoon Rizvi and Joseph P. Patterson\*

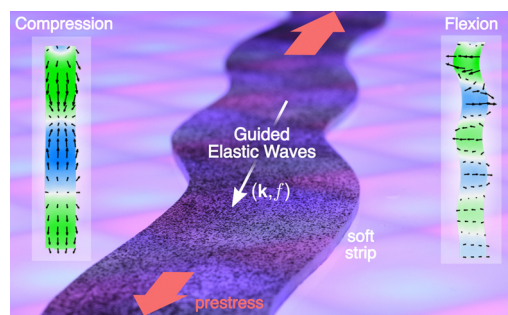


## PAPERS

1983

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

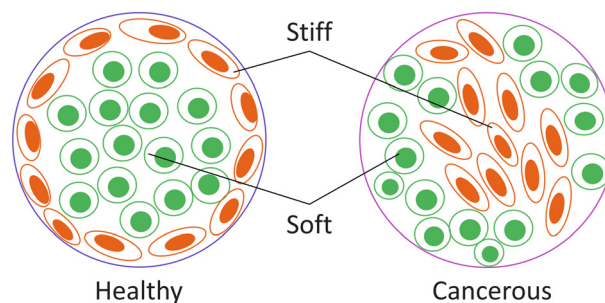
Alexandre Delory,\* Daniel A. Kiefer, Maxime Lanoy, Antonin Eddi, Claire Prada and Fabrice Lemoult



1996

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

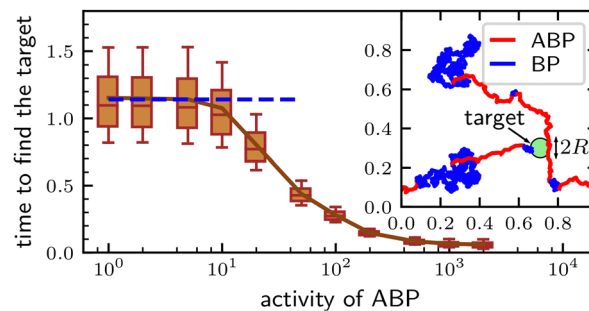
Xiaofan Xie, Frank Sauer, Steffen Grosser, Jürgen Lippoldt, Enrico Warmt, Amit Das, Dapeng Bi, Thomas Fuhs and Josef A. Käs\*



2008

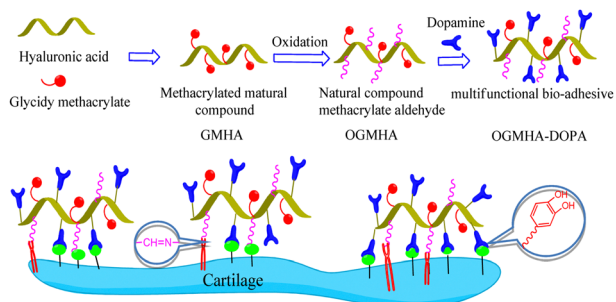
## Learning how to find targets in the micro-world: the case of intermittent active Brownian particles

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



## PAPERS

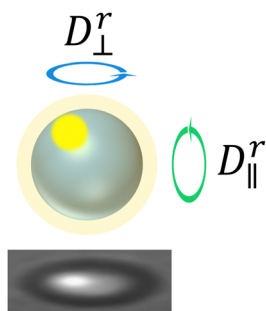
2017



### 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\*

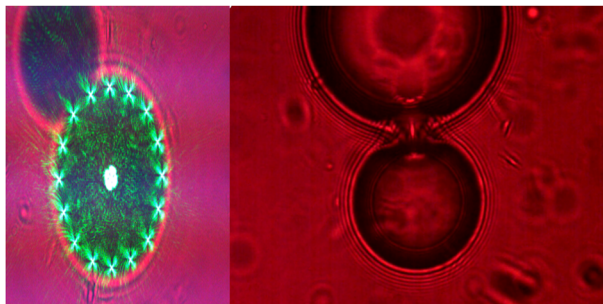
2024



### Rotational diffusion of colloidal microspheres near flat walls

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

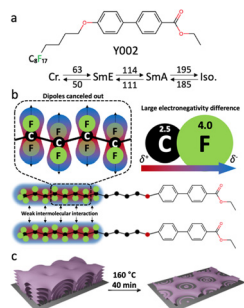
2032



### 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\*



2052

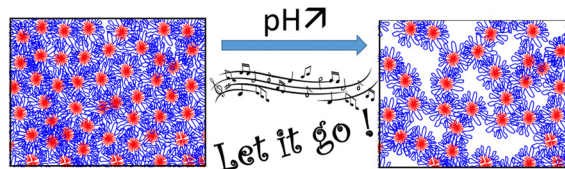
### pH-controlled breakup of fractal aggregates, microgels and gels formed by self-assembled amphiphilic triblock copolymers

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

#### FROZEN HYDROGELS

based on self-assembled  
amphiphilic triblocks

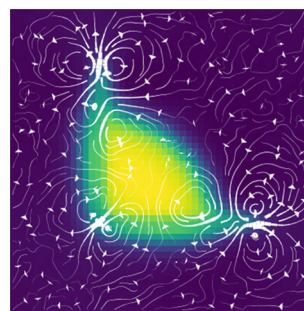
Breakup with  
pH-controlled speed



2060

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

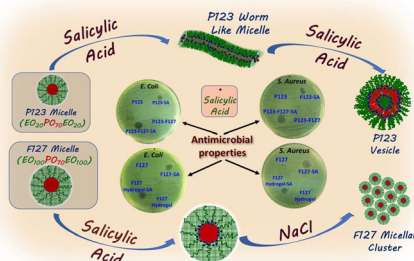
Francesco Turci,\* Robert L. Jack and Nigel B. Wilding



2075

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

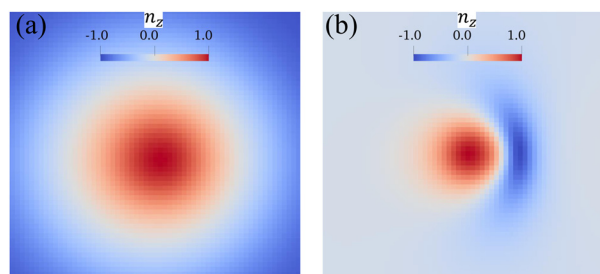
R. Ganguly,\* S. Kumar, M. Soumya, A. Khare, K. C. Bhainsa, V. K. Aswal and J. Kohlbrecher



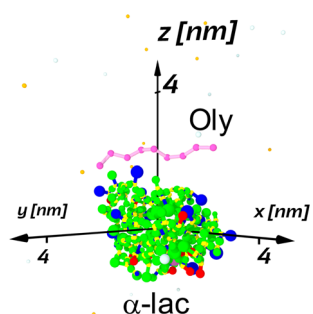
2088

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

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



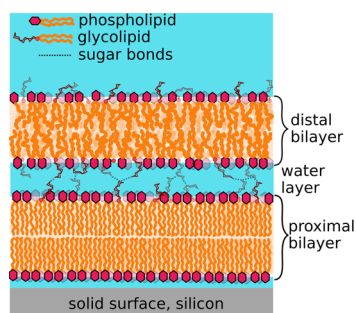
2100



### 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. Nambuena\*

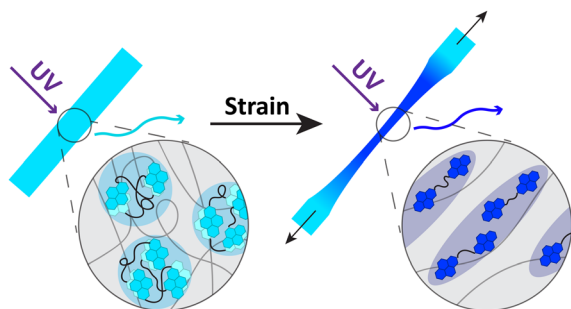
2113



### 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\*

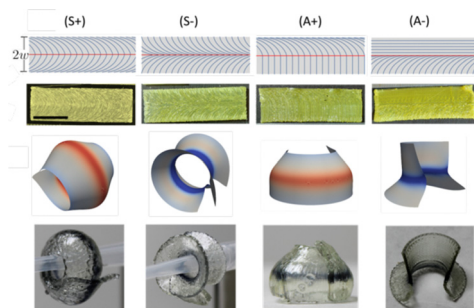
2126



### 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

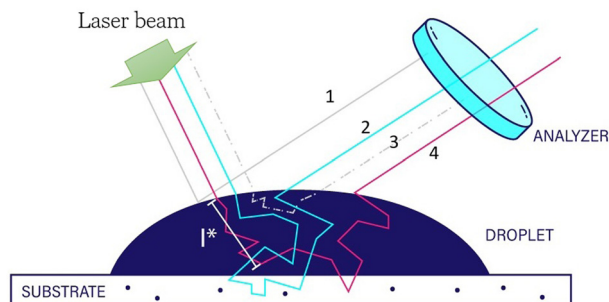
Fan Feng, Klaudia Dradrach, Michał Zmyślony, Morgan Barnes and John S. Biggins\*



2141

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

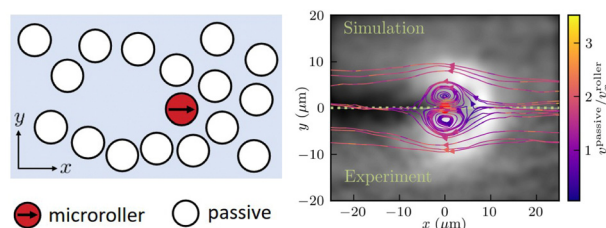
Riccardo Antonelli, Remco Fokkink, Joris Sprakel and Thomas E. Kodger\*



2151

### Restructuring a passive colloidal suspension using a rotationally driven particle

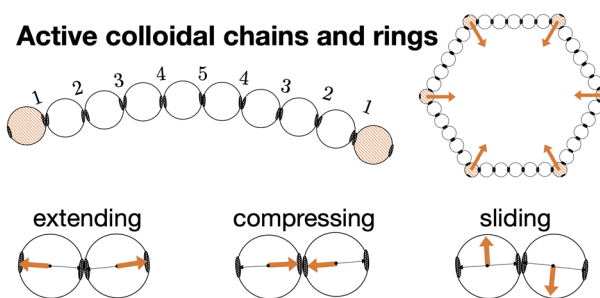
Shih-Yuan Chen, Hector Manuel Lopez Rios, Monica Olvera de la Cruz\* and Michelle Driscoll\*



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\*

