

# 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 Raúl Bayoán Cal *et al.*,  
pp. 2887–2891.

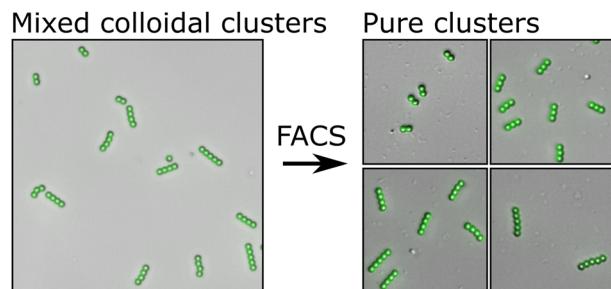
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Karl Cardin from  
*Soft Matter*,  
2024, 20, 2887.

## COMMUNICATION

2881

### Fluorescence-activated cell sorting (FACS) for purifying colloidal clusters

Steven van Kesteren, Pascal Diethelm and Lucio Isa\*

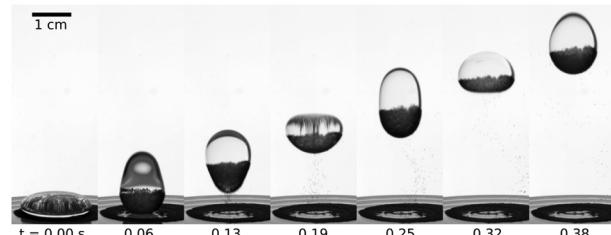


## PAPERS

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### Droplet jump from a particle bed

Karl Cardin, Facundo Cabrera-Booman and  
Raúl Bayoán Cal\*





# RSC Applied Interfaces

GOLD  
OPEN  
ACCESS

## Interfacial and surface research with an applied focus

### Interdisciplinary and open access



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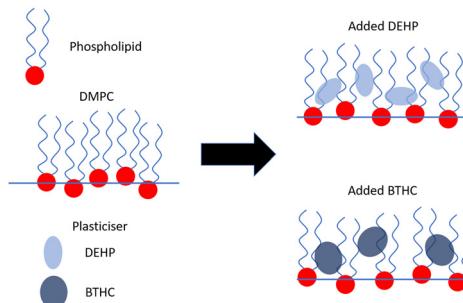
Fundamental questions  
Elemental answers

## PAPERS

2892

**Understanding interactions of plasticisers with a phospholipid monolayer**

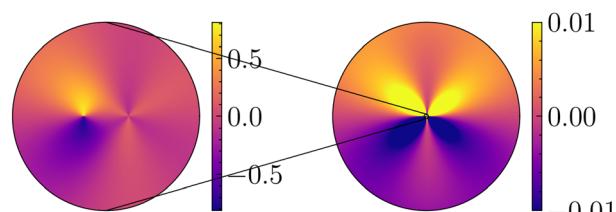
Emil Gustafsson,\* Maja S. Hellsing, Adrian R. Rennie,\*  
 Rebecca J. L. Welbourn, Mario Campana, Arwel Hughes,  
 Peixun Li and Tim Melander Bowden



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**A computational study of nematic core structure and disclination interactions in elastically anisotropic nematics**

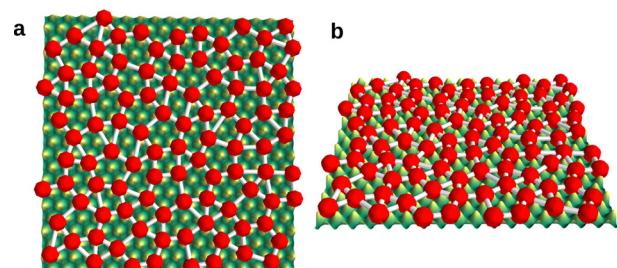
Lucas Myers,\* Carter Swift, Jonas Rønning,  
 Luiza Angheluta and Jorge Viñals



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**Tuning the stability of a model quasicrystal and its approximants with a periodic substrate**

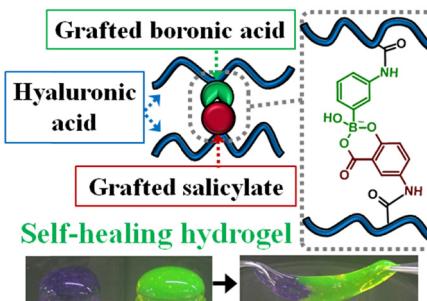
Nydia Roxana Varela-Rosales and Michael Engel\*



2926

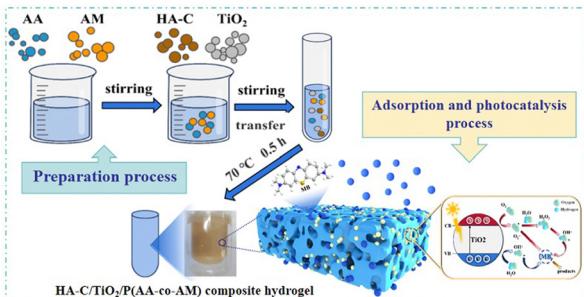
**Phenylboronate-salicylate ester cross-linked self-healing hydrogel composed of modified hyaluronan at physiological pH**

Ryotaro Miki,\* Tsutomu Yamaki, Masaki Uchida and  
 Hideshi Natsume



## PAPERS

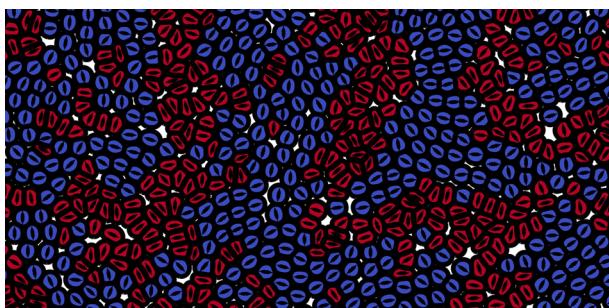
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**Preparation of modified humic acid/TiO<sub>2</sub>/P(AA-co-AM) nanocomposite hydrogels with enhanced dye adsorption and photocatalysis**

Xuankun Gong, Amatjan Sawut,\* Rena Simayi,\* Ziyue Wang and Yurou Feng

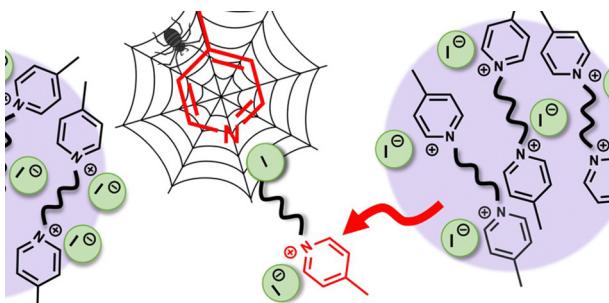
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**Cell sorting by active forces in a phase-field model of cell monolayers**

James N. Graham,\* Guanming Zhang and Julia M. Yeomans

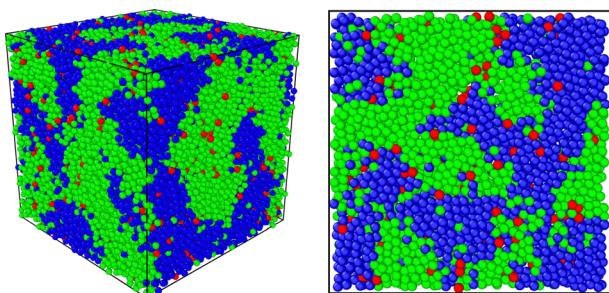
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**Trapping bond exchange phenomenon revealed for off-stoichiometry cross-linking of phase-separated vitrimer-like materials**

Takumi Kito and Mikihiro Hayashi\*

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**Kinetics of phase separation and aging dynamics of segregating fluid mixtures in the presence of quenched disorder**

Rounak Bhattacharyya and Bhaskar Sen Gupta\*



## PAPERS

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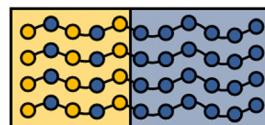
**Self-adhesion of uncrosslinked poly(butadiene-co-acrylonitrile), i.e. nitrile rubber, an inhomogeneous and associative polymer**

Valentine Hervio, Annie Brûlet, Costantino Creton\* and Gabriel E. Sanoja\*

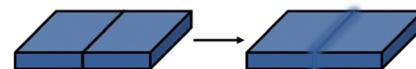
Polar Copolymer



Lamellar Nanostructure



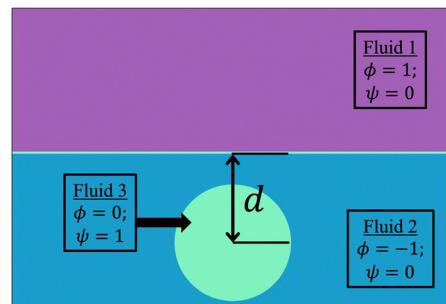
Hindered Inter-Diffusion and Self-Adhesion



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**Dynamics of spreading of an asymmetrically placed droplet near a fluid–fluid interface**

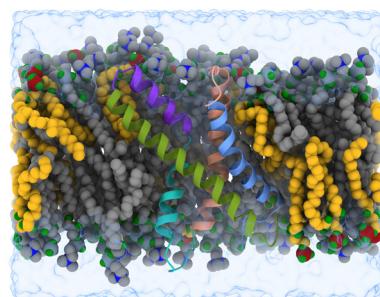
Madhurima Reddy,\* Madivala G. Basavaraj and Sumesh P. Thampi



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**Preferential electrostatic interactions of phosphatidic acid with arginines**

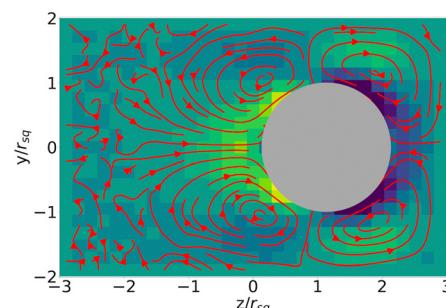
Nidhin Thomas, Wesley Combs, Kranthi K. Mandadapu and Ashutosh Agrawal\*



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**Motion of microswimmers in cylindrical microchannels**

Florian A. Overberg,\* Gerhard Gompper\* and Dmitry A. Fedosov\*



## CORRECTION

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**Correction: Fabricating multi-scale controllable PEDOT:PSS arrays *via* templated freezing assembly**

Yang Lin, Junqiang Mao, Qingrui Fan and Jianjun Wang\*

