

# Soft Matter

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## IN THIS ISSUE

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### Cover

See Nikhil Karthikeyan and Ulf D. Schiller, pp. 8952–8967. Image reproduced by permission of Nikhil Karthikeyan and Ulf D. Schiller from *Soft Matter*, 2024, 20, 8952.



### Inside cover

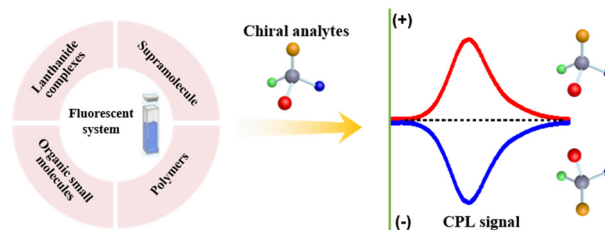
See Juan P. Hernández-Ortiz, José A. Martínez-González *et al.*, pp. 8968–8975. Image reproduced by permission of José A. Martínez-González from *Soft Matter*, 2024, 20, 8968.

## REVIEW

8937

### Supramolecular chiroptical sensing of chiral species based on circularly polarized luminescence

Panyang Chen, Huahua Fan, Sifan Du, Xin Wen, Li Zhang\* and Minghua Liu\*

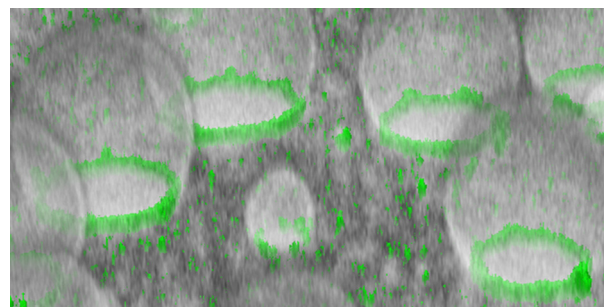


## COMMUNICATION

8947

### Ring-shaped nanoparticle assembly and cross-linking on lipid vesicle scaffolds

Gizem Karabiyik, Aldo Jesorka and Irep Gözen\*



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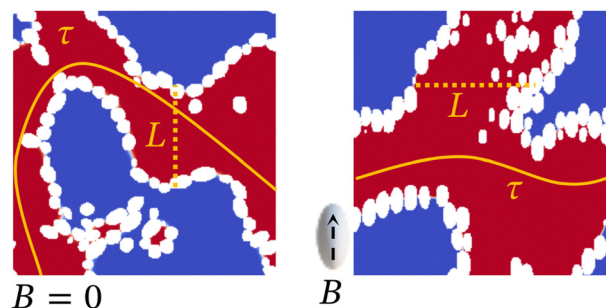
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8952

### Formation of bijels stabilized by magnetic ellipsoidal particles in external magnetic fields

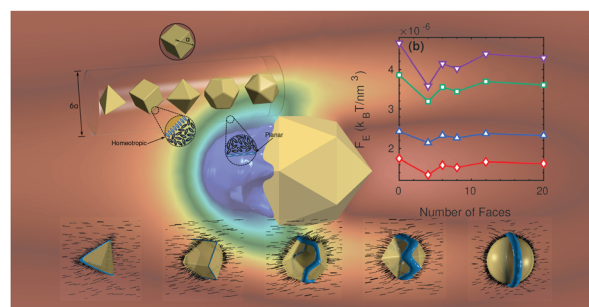
Nikhil Karthikeyan and Ulf D. Schiller\*



8968

### Geometrical impacts of platonic particles on nematic liquid crystal dynamics

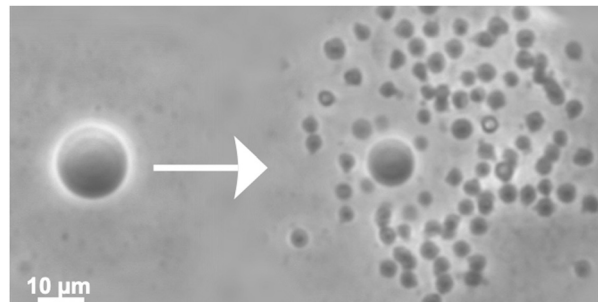
Stiven Villada-Gil, Monirosadat Sadati, Juan D. Ospina-Correa, Daniel A. Olaya-Muñoz, Juan P. Hernández-Ortiz\* and José A. Martínez-González\*



8976

### Osmotic spawning vesicle

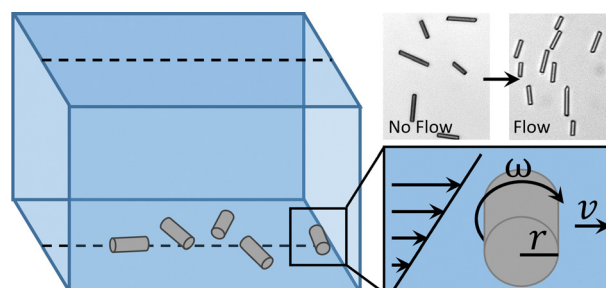
Minoru Kurisu\* and Masayuki Imai



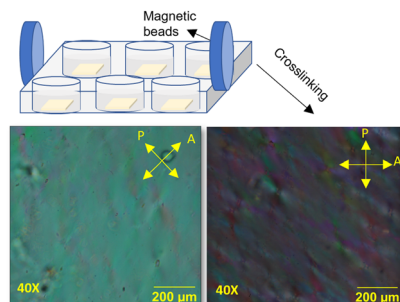
8990

### Rolling and ordering of micro rods in shear flow induced by rod wall interactions

Martin Wittmann, Igor M. Kulić, Antonio Stocco and Juliane Simmchen\*



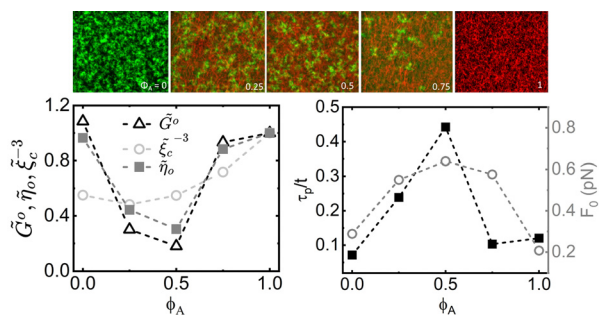
8997



### Liquid crystalline collagen assemblies as substrates for directed alignment of human Schwann cells

Homa Ghaedi, Luis Carlos Pinzon Herrera, Saja Alshafeay, Leonard Harris, Jorge Almodovar and Karthik Nayani\*

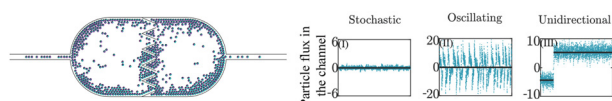
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### Scale-dependent interactions enable emergent microrheological stress response of actin–vimentin composites

Julie Pinchiaroli, Renita Saldanha, Alison E. Patteson, Rae M. Robertson-Anderson and Bekele J. Gurmessa\*

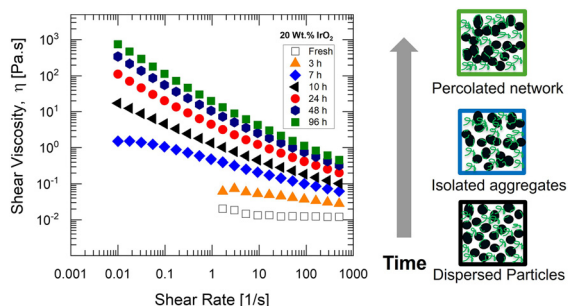
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### Long-lived unidirectional flow of active particles within long narrow channels

Man Xu, Ying Lan, Yuehua Yang and Hongyuan Jiang\*

9028



### Aging iridium oxide catalyst inks: a formulation strategy to enhance ink processability for polymer electrolyte membrane water electrolyzers

Sunilkumar Khandavalli,\* Jae Hyung Park, Robin Rice, Diana Y. Zhang, Sarah A. Berlinger, Guido Bender, Deborah J. Myers, Michael Ulsh and Scott A. Mauger

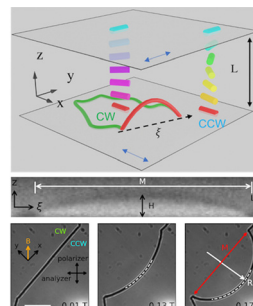




9050

### Morphology and line tension of twist disclinations in a nematic liquid crystal

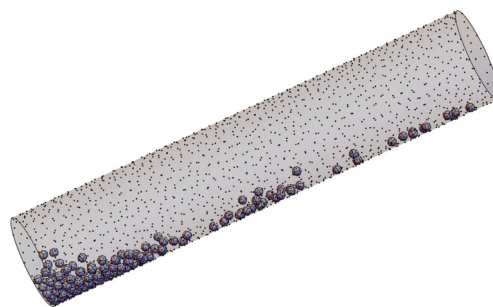
Yihao Chen,\* Mina Mandić, Charlotte G. Slaughter, Michio Tanaka, James M. Kikkawa, Peter J. Collings and A. G. Yodh



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### Tribocharging of granular materials flowing in grounded inclined tubes

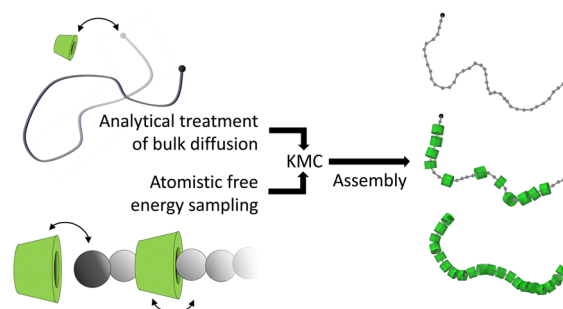
Nicolas Preud'homme,\* Julien Schockmel, Eric Opsomer and Geoffroy Lumay



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### A multi-scale framework for predicting $\alpha$ -cyclodextrin assembly on polyethylene glycol axles

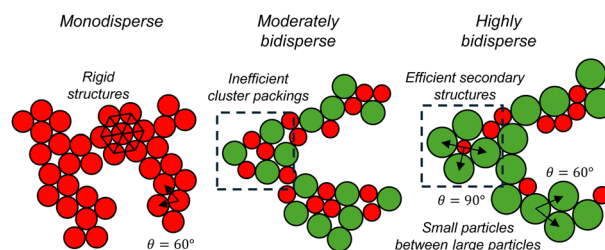
Cameron D. Smith, Chenfeng Ke\* and Wenlin Zhang\*



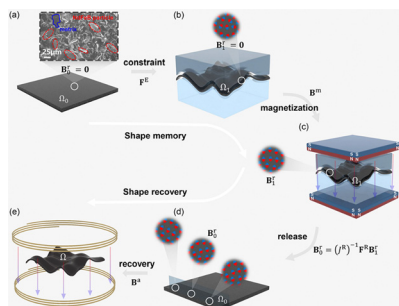
9083

### Pairing-specific microstructure in depletion gels of bidisperse colloids

Rony A. Waheibi and Lilian C. Hsiao\*



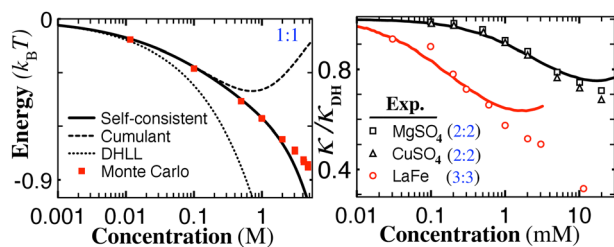
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## Shape memory and recovery mechanism in hard magnetic soft materials

Rong Jia, Kai Tan\* and Qian Deng\*

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## Self-consistent electrostatic formalism of bulk electrolytes based on the asymmetric treatment of the short- and long-range ion interactions

Sahin Buyukdagli

