

Soft Matter

Where physics meets chemistry meets biology for fundamental soft matter research

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(45) 8929-9118 (2024)



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

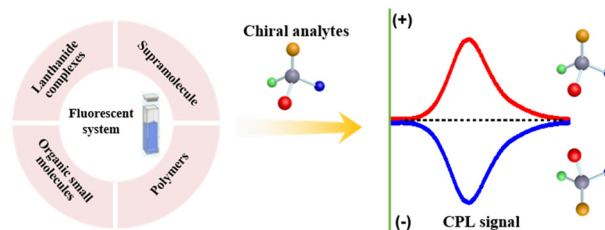
See Juan P. Hernández-Ortiz, José A. Martínez-González *et al.*, pp. 8968–8975. Image reproduced by permission of José A. Martínez-González from *Soft Matter*, 2024, 20, 8968.

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*

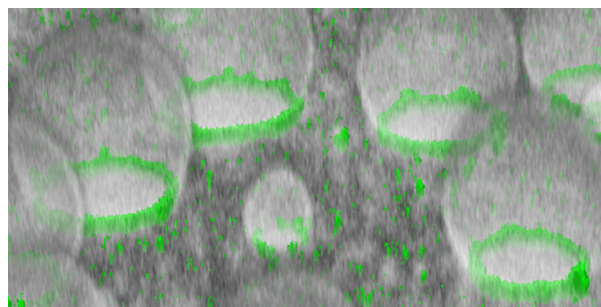


COMMUNICATION

8947

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

Gizem Karabiyik, Aldo Jesorka and Irep Gözen*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit rsc.li/cpd-training

**SAVE
10%**

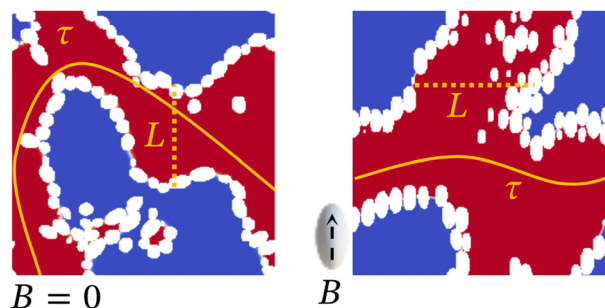


PAPERS

8952

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

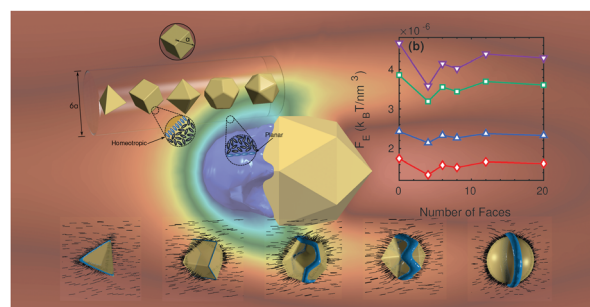
Nikhil Karthikeyan and Ulf D. Schiller*



8968

Geometrical impacts of platonic particles on nematic liquid crystal dynamics

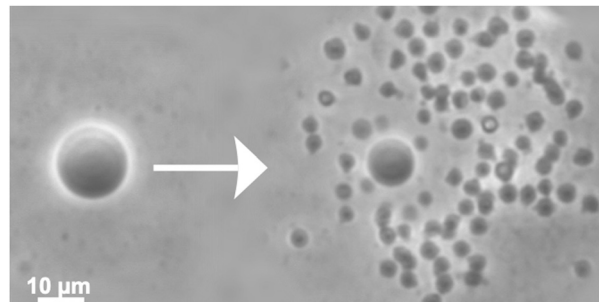
Stiven Villada-Gil, Monirosadat Sadati, Juan D. Ospina-Correa, Daniel A. Olaya-Muñoz, Juan P. Hernández-Ortiz* and José A. Martínez-González*



8976

Osmotic spawning vesicle

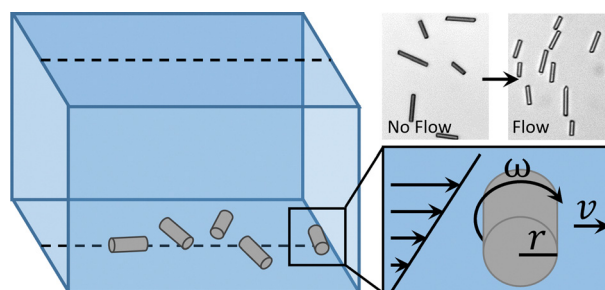
Minoru Kurisu* and Masayuki Imai



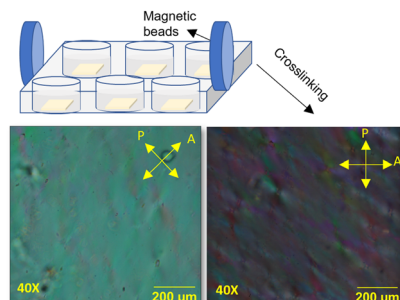
8990

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

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



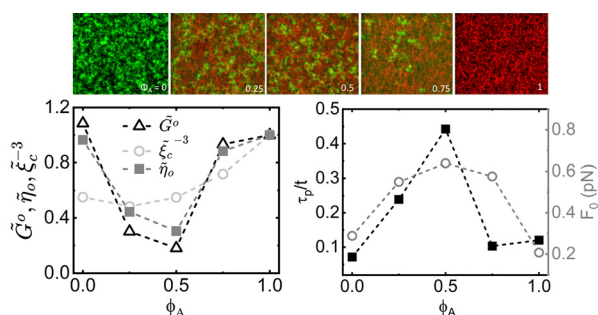
8997



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

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

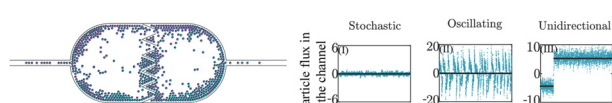
9007



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*

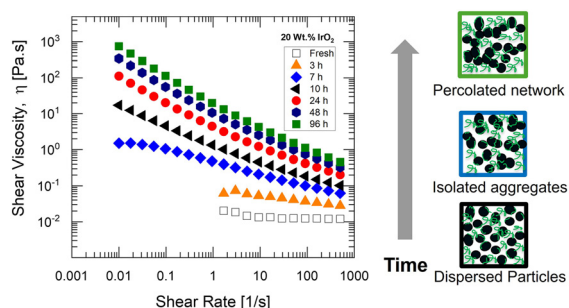
9022



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

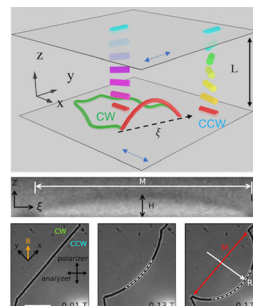


PAPERS

9050

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

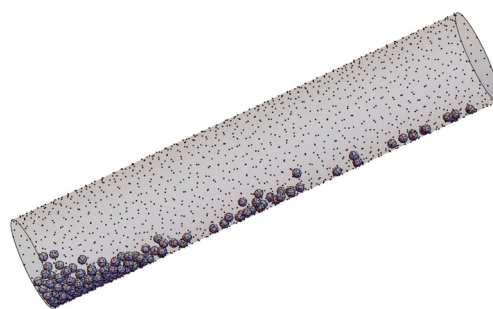
Yihao Chen,* Mina Mandić, Charlotte G. Slaughter, Michio Tanaka, James M. Kikkawa, Peter J. Collings and A. G. Yodh



9060

Tribocharging of granular materials flowing in grounded inclined tubes

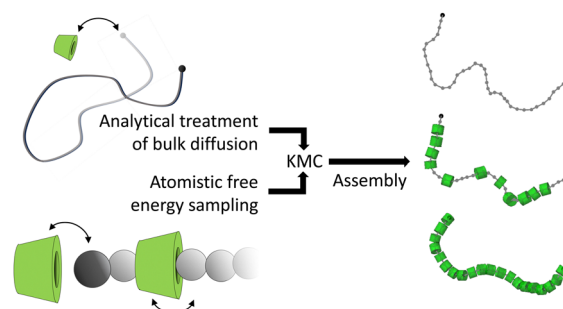
Nicolas Preud'homme,* Julien Schockmel, Eric Opsomer and Geoffroy Lumay



9068

A multi-scale framework for predicting α -cyclodextrin assembly on polyethylene glycol axles

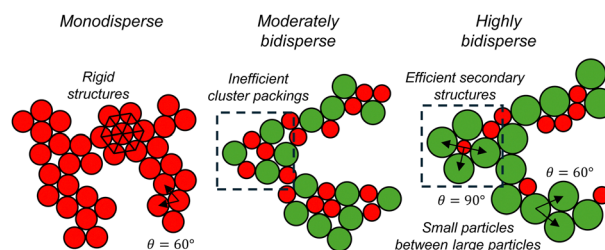
Cameron D. Smith, Chenfeng Ke* and Wenlin Zhang*



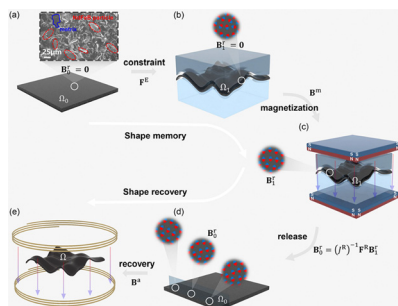
9083

Pairing-specific microstructure in depletion gels of bidisperse colloids

Rony A. Waheibi and Lilian C. Hsiao*



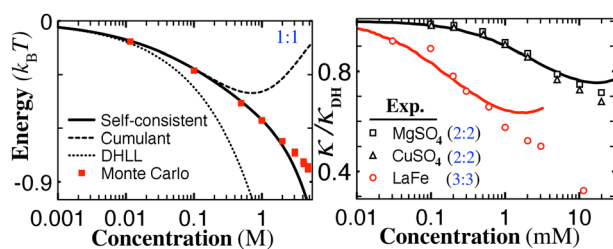
9095



Shape memory and recovery mechanism in hard magnetic soft materials

Rong Jia, Kai Tan* and Qian Deng*

9104



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

Sahin Buyukdagli

