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(21) 4167-4320 (2024)



Cover

See Jasna Brujic et al., pp. 4175-4183. Image reproduced by permission of Jasna Brujic and Lucas Sixdenier from Soft Matter. 2024, 20, 4175.



Inside cover

See Prashant K. Purohit, Valerie Tutwiler et al... pp. 4184-4196. Image reproduced by permission of Valerie Tutwiler and Ranjini Ramanujam from Soft Matter, 2024, 20, 4184.

PROFILE

4174

Ulli Steiner: perfect colleague

Jeremy Baumberg

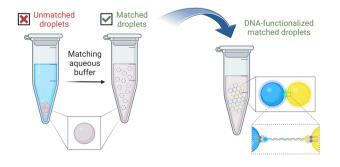


PAPERS

4175

Refractive-index and density-matched emulsions with programmable DNA interactions

Wenjun Chen, Lucas Sixdenier, Angus McMullen, David G. Grier and Jasna Brujic*





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

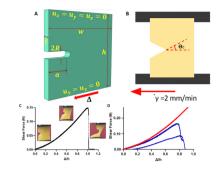


PAPERS

4184

Mechanics and microstructure of blood plasma clots in shear driven rupture

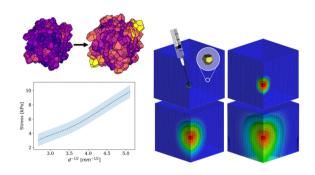
Ranjini K. Ramanujam, Konstantinos Garyfallogiannis, Rustem I. Litvinov, John L. Bassani, John W. Weisel, Prashant K. Purohit* and Valerie Tutwiler*



4197

Geometry of adipocyte packing in subcutaneous tissue contributes to nonlinear tissue properties captured through a Gaussian process surrogate model

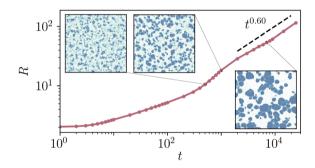
Jacques Barsimantov Mandel, Luis Solorio and Adrian Buganza Tepole*



4208

Phase separation kinetics and cluster dynamics in two-dimensional active dumbbell systems

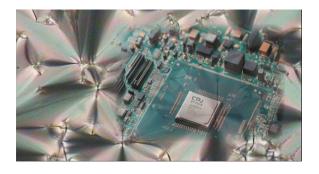
C. B. Caporusso, L. F. Cugliandolo, P. Digregorio,* G. Gonnella and A. Suma



4226

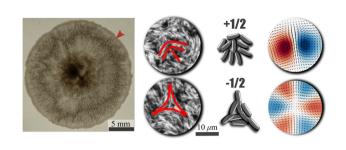
Possibilities and limitations of convolutional neural network machine learning architectures in the characterisation of achiral orthogonal smectic liquid crystals

Rebecca Betts and Ingo Dierking*



PAPERS

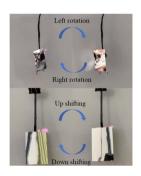
4237



Topological defects in multi-layered swarming bacteria

Victor Yashunsky,* Daniel J. G. Pearce, Gil Ariel* and Avraham Be'er*

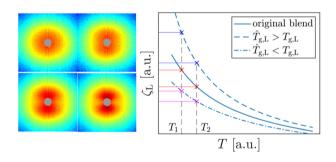
4246



Liquid crystalline elastomer self-oscillating fiber actuators fabricated from soft tubular molds

Yuying Sun, Yanli Men, Shiyu Liu, Xiuxiu Wang and Chensha Li*

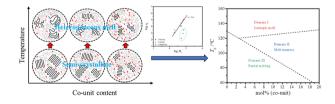
4257



The influence of elongation-induced concentration fluctuations on segmental friction in polymer blends

Yangyang Wang,* Shalin Patil, Shiwang Cheng* and Changwoo Do

4270



Melt memory in random ethylene-1-alkene copolymers

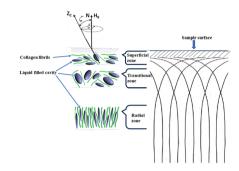
Yunxiang Shi, Jingqing Li, Hongfei Li,* Bin Zhang,* Jesper de Claville Christiansen, Donghong Yu* and Shichun Jiang*

PAPERS

4282

Study of the collagen tissue nanostructure by analyzing the echo decay obtained using the MRI technique

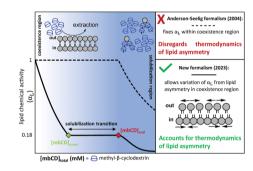
Theodore Aptekarev, Gregory Furman,* Farid Badar, Vladimir Sokolovsky and Yang Xia



4291

Methyl-β-cyclodextrin asymmetrically extracts phospholipid from bilayers, granting tunable control over differential stress in lipid vesicles

Tyler Reagle, Yuxin Xie, Zheyuan Li, Warner Carnero and Tobias Baumgart*



4308

Compositional asymmetry in a crystallineamorphous block copolymer influences the phase and crystallization behaviors of its blend with an amorphous block copolymer

Kuang-Hsin Wu, Chia-Pei Hsieh and Chieh-Tsung Lo*

