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 21(31) 6167-6326 (2025)



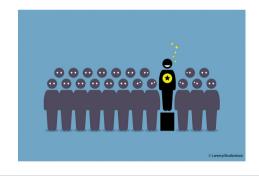
Cover

See Laura Alvarez et al., pp. 6175-6185. Image reproduced by permission of Laura Alvarez from Soft Matter. 2025, 21, 6175.

EDITORIAL

6174

Outstanding Reviewers for Soft Matter in 2024

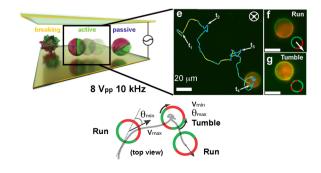


PAPERS

6175

Run-and-tumble dynamics of active giant vesicles

Vivien Willems, Alexandre Baron, Daniel Fernandez-Matoz, Gianna Wolfisberg, Jean-Christophe Baret, Eric Dufresne and Laura Alvarez*





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

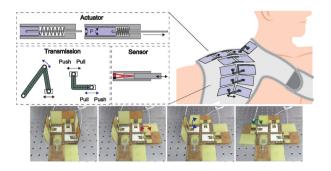


PAPERS

6186

Low-profile folding mechanism for multi-DoF feedback control

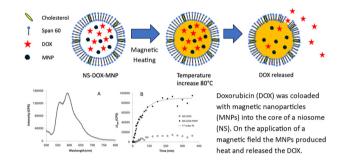
Hwayeong Jeong, Jung Kim and Jamie Paik*



6197

Magnetically induced drug release from niosome-based nanocarriers loaded with doxorubicin

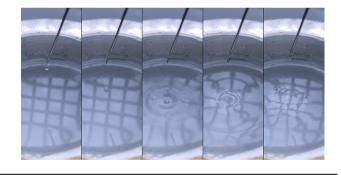
Philip Drake,* Ilma Amalina, Retno Sari, Amalia Ruiz, Saliha Ramazan, Gordon Hope, Dharmisthaben Pancholi and Andang Miatmoko



6207

Establishing physiologically relevant conditions for measuring the interfacial rheology of lung surfactants

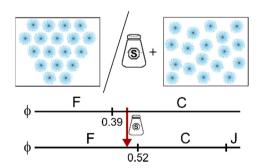
Yun-Han Huang and John M. Frostad*



6220

Dispersions of weakly charged thermoresponsive microgels at high densities

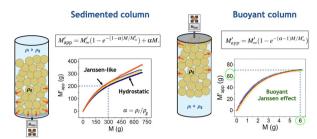
M. Hildebrandt, D. Pham Thuy, A. Domgans, A. Scotti, S. Prévost, M. Adhikari, J. Horbach and M. Karg*



PAPERS

6234

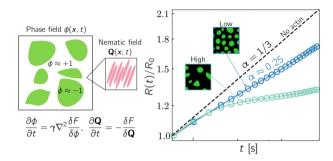
Janssen effect in submerged granular columns



Janssen effect in submerged granular columns

M. Aguilar-González, D. Maza* and F. Pacheco-Vázquez*

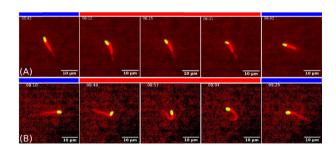
6243



Phase field model for viscous inclusions in anisotropic networks

Aakanksha Gubbala, Anika M. Jena, Daniel P. Arnold and Sho C. Takatori*

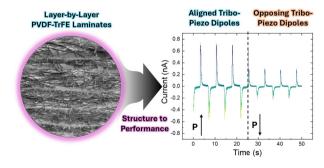
6252



Medium-assisted tumbling controls bacteria exploration in a complex fluid

Héctor Urra,* Thierry Darnige, Xavier Benoit-Gonin, Justine Laurent, Angela Dawson, Wilson C. K. Poon and Eric Clément*

6261



Multi-layered laminate architectures enhance the electromechanical response of PVDF-TrFE films

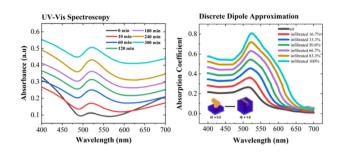
Anna Šutka, Artis Linarts, Maksims Jurinovs, Krišjānis Šmits, Sergejs Gaidukovs, Peter C. Sherrell and Andris Šutka*

PAPERS

6274

Investigating polymer infiltration kinetics in nanoporous metal scaffolds using UV-vis spectroscopy

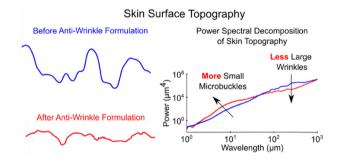
Weiwei Kong, Chuyi Pan, Rongyue Lin, Mengjie Fan, John M. Vohs* and Russell J. Composto*



6287

How to flatten and microbuckle a rough surface with polymer films: biomechanical mechanisms underlying skin anti-wrinkle formulations

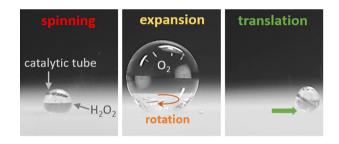
Sebastian Hendrickx-Rodriguez and Reinhold H. Dauskardt*



6299

Co-motion of catalytic tubes and host droplets on superhydrophobic surfaces

Amrutha S. V. and Oliver Steinbock*



6307

Cyclic perturbations facilitate athermal creep in yield-stress materials

Ezequiel E. Ferrero* and Eduardo A. Jagla

