Sequential deposition of microdroplets on patterned surfaces

*Soft Matter*, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01373J, Paper
Pallav Kant, Andrew Hazel, Mark Dowling, Alice B Thompson, Anne Juel
We use a combination of experiments and numerical modelling to investigate the influence of physico-chemical-patterned substrates on the spreading of fluid deposited as a partially overlapping sequence of droplets via...
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Accurate Estimation of the Polymer Coverage of Hairy Nanoparticles

*Soft Matter*, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01311J, Paper
Makoto Asai, Dan Zhao, Sanat Kumar
Understanding and predicting the mechanisms underpinning the self-assembly of polymer-grafted nanoparticles (PGNPs) are important for controlling the engineering applications of these novel materials. The self-assembly of these materials is driven...
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Polymer stabilization of cholesteric liquid crystals in the oblique helicoidal state

*Soft Matter*, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01278D, Paper
Mariacristina Rumi, Timothy Bunning, Tim White
Electrical control of the pitch has been reported in a variant of the cholesteric liquid crystal phase composed of chiral dopants and liquid crystal dimers with a bent conformation, such...
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Assembly modes of hexaphenylalanine variants as function of the charge states of their terminal ends.

*Soft Matter*, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01441H, Paper
Carlo Diaferia, Nicole Balasco, Davide Altamura, Teresa Sibillano, Enrico Gallo, Valentina Roviello, Cinzia Giannini, Giancarlo Morelli, Luigi Vitagliano, Antonella Accardo
The ability of peptides to self-assemble represents a valuable tool for the development of biomaterials of biotechnological and/or biomedical interest. Diphenylalanine homodimer (FF) and its analogues are among the most...
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Anisotropic Contraction of Fiber-Reinforced Hydrogels

*Soft Matter*, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01251B, Paper
Shuangping Liu, Samuel Stupp, Monica Olvera de la Cruz
Hydrogels reinforced by fibers can undergo remarkable anisotropic contraction triggered by external stimuli, which has a broad appeal for various applications. However, little is known about how to
optimize the...
Optically induced motion of liquid crystalline droplets

**Soft Matter**, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01426D, Communication

Yoshiharu Dogishi, Yota Sakai, Woon Yong Sohn, Kenji Katayama

Controlled motion of a liquid crystalline active droplet was demonstrated in a surfactant solution and by irradiation of UV light. Droplet could be induced to roll on a glass substrate...

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Morphology Modulation in Evaporative Drying Mediated Crystallization of Sodium Chloride Solution Droplet with Surfactant

**Soft Matter**, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01370E, Paper

Nandita Basu, Rabibrata Mukherjee

We report evaporative drying of an aqueous droplet containing a dilute solution of sodium chloride (NaCl) on a hydrophobic substrate made of cross-linked Poly-dimethyl siloxane (PDMS). The salt concentration Cn...

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Effect of Interfilament Hydrodynamic Interaction on Swimming Performance of Two-Filament Microswimmer

**Soft Matter**, 2018, Accepted Manuscript
DOI: 10.1039/C8SM01120F, Paper

T Sonamani Singh, Priyanka Singh, R. D. S. Yadava

The motion of two-filament artificial swimmer is modeled by assuming interfilament coupling via hydrodynamic viscous drag. The filaments are assumed to be in parallel and attached to a rigid spherical...

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Tuning of volume phase transition for poly(N-isopropylacrylamide) ionogels by copolymerization with solvatophilic monomers

**Soft Matter**, 2018, Advance Article
DOI: 10.1039/C8SM01470A, Paper
Tuning of volume phase transition for PNIPAm based ionogels is achieved by incorporating solvatophilic monomers.

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Thermophoretic forces on a mesoscopic scale

*Soft Matter*, 2018, Advance Article  
**DOI:** 10.1039/C8SM01132J, Paper  
Jérôme Burelbach, David B. Brückner, Daan Frenkel, Erika Eiser  
We present measurements of thermophoretic forces on a colloid that comply with a hydrodynamic reciprocal approach to thermophoresis.

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Formation of lipid vesicles in situ utilizing the thiol-Michael reaction

*Soft Matter*, 2018, Advance Article  
**DOI:** 10.1039/C8SM01329B, Paper  
Danielle Konetski, Austin Baranek, Sudheendran Mavila, Xinpeng Zhang, Christopher N. Bowman  
Synthetic liposome formation utilizing the thiol-Michael reaction enables control over liposome lamellarity and facile functionalization of the phospholipid products.

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What causes the anomalous aggregation in pluronic aqueous solutions?

*Soft Matter*, 2018, Advance Article  
**DOI:** 10.1039/C8SM01096J, Paper  
Kuo-Chih Shih, Zhiqiang Shen, Ying Li, Martin Kröger, Shing-Yun Chang, Yun Liu, Mu-Ping Nieh, Hsi-Mei Lai  
Anomalous aggregation of pluronic induced by weak PPO hydrophobicity can be suppressed in presence of acids or bases.

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Molecular simulation of the high temperature phase behaviour of ?-unsubstituted sexithiophene

*Soft Matter*, 2018, Advance Article  
**DOI:** 10.1039/C8SM01492B, Paper
Phase diagram of $\beta$-unsubstituted sexithiophene is driven by six different chain conformational groups.
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**Self-transport of underwater bubbles on a microholed hydrophobic surface with gradient wettability**

*Soft Matter*, 2018, Advance Article  
**DOI**: 10.1039/C8SM01056K, Paper  
Meng-yao Chen, Zhi-hai Jia, Tao Zhang, Yuan-yuan Fei  
Manipulation of underwater bubbles is of great importance in both scientific research and industrial applications.  
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**Liquid crystalline moiety-assisted perpendicular orientation of cylindrical domains within P4VP-b-PMA(Az) films with high aspect ratio**

*Soft Matter*, 2018, Advance Article  
**DOI**: 10.1039/C8SM01259H, Communication  
Ting Qu, Song Guan, Chen Zhang, Xiaoxiong Zheng, Yongbin Zhao, Aihua Chen  
Block copolymer (BCP) films with perpendicularly aligned cylindrical domains of high aspect ratio have important applications in diverse fields.  
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**Bending behavior of CNT fibers and their scaling laws**

*Soft Matter*, 2018, Advance Article  
**DOI**: 10.1039/C8SM01129J, Paper  
Mohammed Adnan, Robert A Pinnick, Zhao Tang, Lauren W Taylor, Sushma Sri Pamulapati, Gianni Royer Carfagni, Matteo Pasquali  
Carbon nanotube (CNT) fibers are a promising material for wearable electronics and biomedical applications due to their combined flexibility and electrical conductivity.  
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