



INTERNATIONAL SOFT MATTER CONFERENCE

3-7 JUNE 2019

#ISMC2019
WWW.ISMC2019.ED.AC.UK

Contents

Welcome	1
Sponsors	2
Venues (including wifi access)	4
Maps	5
Information for presenters (talks and posters)	7
Schedule at a glance	9
Schedule of talks	10
Schedule of posters	30
Posters index (by author)	31



School of Physics & Astronomy
 Scottish Universities Physics Alliance (SUPA)
 The University of Edinburgh
 The Kings Buildings
 Mayfield Road
 Edinburgh EH9 3JZ
 Scotland
 Telephone (direct dial): +44 (0)131 650 5297
 (Secretary): +44 (0)131 650 5249
 Fax: +44 (0) 131 650 5902
 email: w.poon@ed.ac.uk

27th May 2019

Dear delegate

Welcome to the International Soft Matter Conference 2019 in Edinburgh. This is the fifth in a series of triennial meetings organised under the auspices of the SoftComp Network. Our generous sponsors are gratefully acknowledged on the following pages (and links to their websites can be found on the conference app).

The rest of this booklet gives you all the essential information you will need to navigate your way through the Conference. If you want a hard copy, you need to print it for yourself. Note that this pdf is searchable; in particular, you can find your presentation slot, whether talk or poster, by searching for your name. More detailed information, including all the abstracts, can be found on the conference app (free, search for ISMC on Android and Apple app stores) for downloading to your device.

On behalf of all the organisers, I wish you a fruitful and enjoyable conference.

Yours

Chair, International Programme Committee

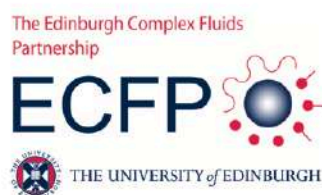
Wilson C K Poon, FRSE
Professor of Natural Philosophy

Our Sponsors

Soft Matter

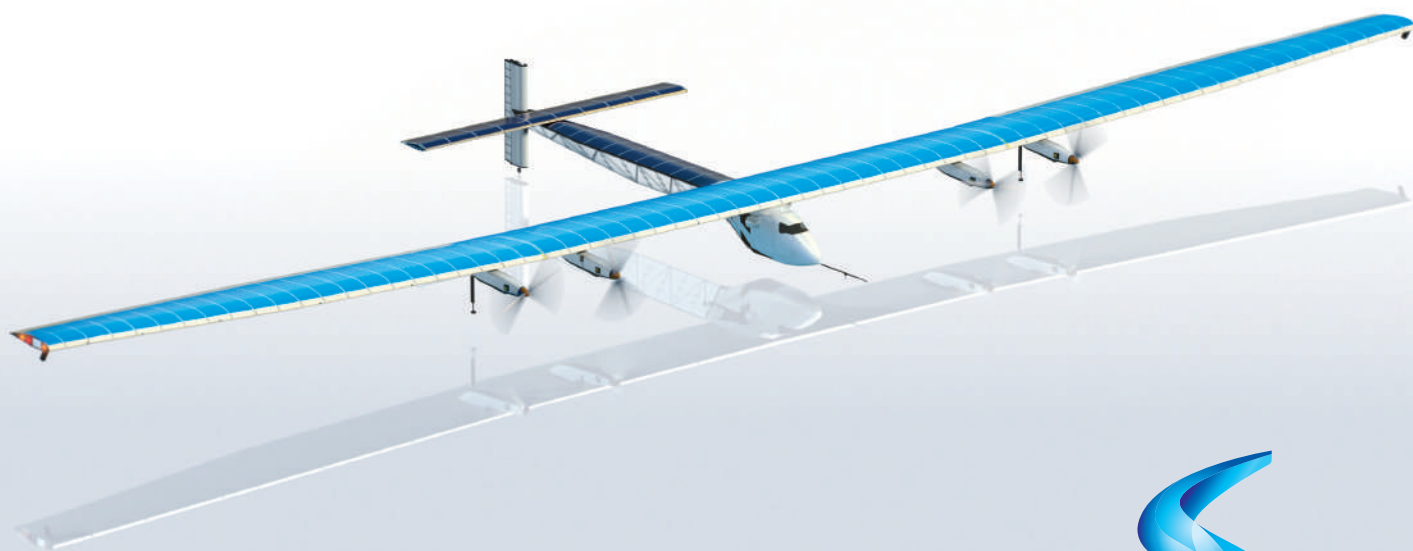


SoftComp
SOFT MATTER COMPOSITES



MORE DARING CLEANER FUTURE

SOLAR IMPULSE:
WHEN IMAGINATION AND
INNOVATIVE CHEMISTRY MAKE
THE IMPOSSIBLE POSSIBLE,
TOMORROW'S HOPES
ARE ACHIEVED TODAY.



**ASKING MORE
FROM CHEMISTRY**

WWW.SOLVAY.COM



SOLVAY

asking more from chemistry®

Venues

Registration and Information

Registration (Monday 3rd June 10:00-12:00): **McEwan Hall**

Help Desks (throughout): **McEwan Hall** and **Appleton Tower**

Scientific Programme

Plenary lectures: **McEwan Hall**

Keynote and contributed talks: **Appleton Tower**

Poster sessions: **McEwan Hall**

Exhibitions: **Appleton Tower**

Catering

Monday lunch: **McEwan Hall**

Tuesday to Thursday lunch: **McEwan Hall** and **Appleton Tower**

Vegetarian options are available at both venues; other special dietary requirements are catered for at the Appleton Tower (please identify yourselves to the catering staff, who will advise).

Friday lunch: **Appleton Tower**

Coffee/tea breaks: **McEwan Hall** and **Appleton Tower**

Reception (Monday 3rd June, 7 pm): **Teviot Row House**

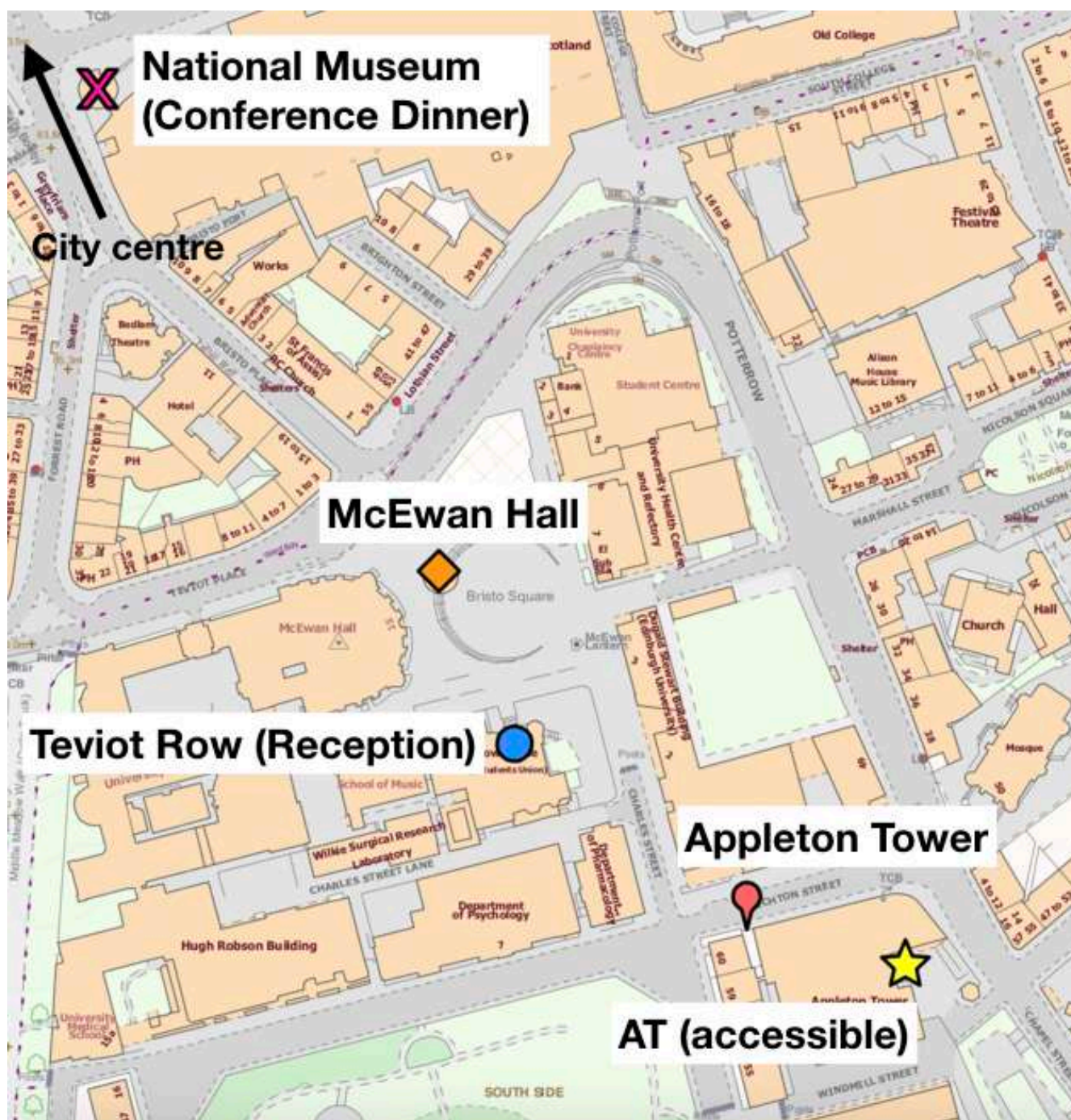
Refreshments @ posters (Tuesday 4th, Wednesday 5th June; sponsored by Zeiss): **McEwan Hall**

Gala Dinner (Thursday 6th June, 7 pm, sponsored by Solvay): **National Museum of Scotland**
(Beyond drinks included, there will be a cash bar at both the Reception and the Gala Dinner.)

Wireless access

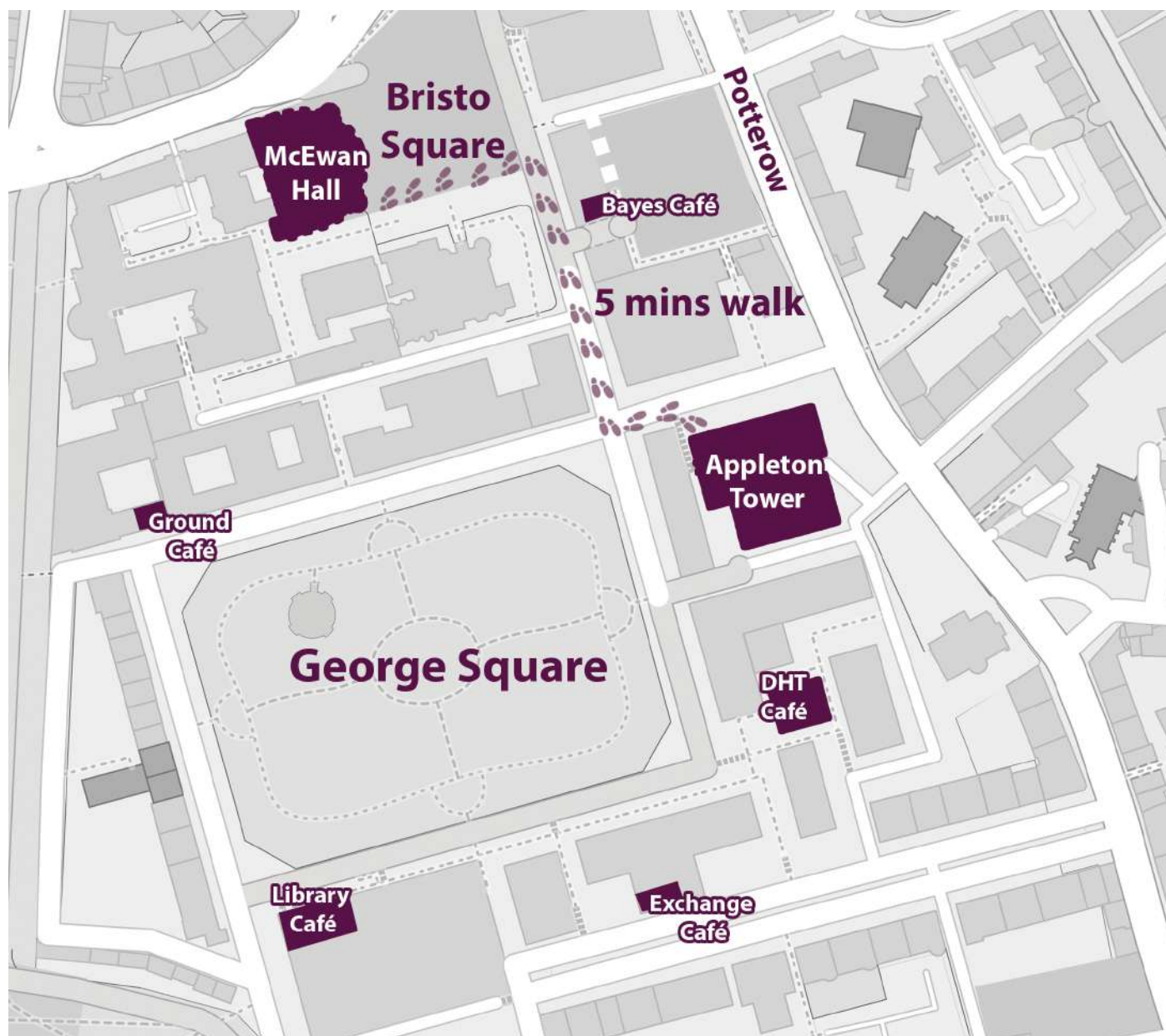
The eduroam network is available at any of the above sites except the National Museum. You can pick up a wifi pass for the University's Central network at registration, which also works at all University sites. The Optify network is available in the McEwan Hall only (no password needed). The city's EdiFreeWiFi network is available in the central areas shown on the right.





© Crown Copyright and database rights [2019] Ordnance Survey (100025252)
Contains OS Data © Crown Copyright and database rights [2019]

University cafés nearby



Information for presenters

Information for plenary speakers

All plenary talks will take place in the **McEwan Hall auditorium**. Presentations are **45 minutes** long followed by 15 minutes of questions. The chair will indicate when 5 minutes of presentation time remains and stand up and approach the stage when 1 minute remains.

Please meet local staff in the auditorium 20 minutes before your lecture to connect your laptop, check your presentation and attach wireless microphone.

Connection to the projection equipment is via an HDMI or VGA; we ask that presenters *bring their own adapters* if such are needed to make these connections.

We will provide a clicker/laser pen (if required). This will connect via a USB-A connector; again please bring suitable adaptors if such are needed for your laptops.

Information for keynote and contributed talks speakers

All talks will take place in the **Appleton Tower** (Lecture Theatres 1, 2, 4 and 5).

Keynote talks are **30 minutes** long followed by 10 minutes for questions and changeover. **Contributed** talks are **15 minutes** long with 5 minutes for questions and changeover. The chair will indicate when 5 minutes presentation time remain and stand up when 1 minute remains.

Speakers should go to the relevant lecture theatre during the catering break (coffee/tea or second half of lunch) prior to the session to check their presentations display correctly from their laptops. (In addition, the lecture theatres will be staffed on the morning of Monday 3rd June – so do feel free to go there and try out your presentation immediately after you have registered.)

Connection to the projection equipment is via HDMI or VGA; we ask that presenters *bring their own adapters* if such are needed to make these connections.

The laptop of a contributed talk speaker will be disconnected during questions to allow the next speaker to connect up.

For presenters without their own laptops we have a Windows 10 guest machine onto which PDF and PowerPoint (2016 edition) files can be loaded. In this case, please bring a USB-A compatible pen- or hard-drive at the start of the catering break prior to their session to load up.

We will provide a clicker/laser pen (if required). This will connect via a USB-A connector; again please bring suitable adaptors if such are needed for your laptops.

Information for poster presenters

There will be two posters sessions: 17:00-19:00 on Tuesday 4th and Wednesday 5th June. There are numbered poster boards in the McEwan Hall basement Foyers 1-4. Check the code of your poster (most easily from the poster index in the Conference Booklet pdf) and put it up from 9 am of the day of your presentation. We will provide the means for you to attach the posters to the boards. As noted in the original email sent to you accepting your contribution, we can accommodate up to A0 (841 wide x 1189 height mm) posters only **in portrait (vertical) format**.

Please take down your posters at the end of each session. Any posters not taken down will be removed and discarded.

The winners of ‘most popular poster’ prizes (one per session) will be notified by email on Thursday 6th June, and the prizes will be presented to them before the plenary lecture on Friday 7th.

	Monday 3rd													
Location:	McEwan Hall	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5									
09:00														
09:30														
10:00	Registration													
10:30														
11:00														
11:30														
12:00	Lunch													
12:30														
13:00	Opening/ Welcome													
13:30														
14:00	Cipelletti													
14:30														
15:00	Coffee Break													
15:30		Colloidal Soft Matter A	Arrested Soft Matter A	Active Soft Matter A	Making Soft Matter A									
16:00														
16:30														
17:00														
17:30	Break													
18:00	Ramaswamy													
18:30														
19:00	Reception (Teviot)													
	Tuesday 4th													
Location:	McEwan Hall	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5									
09:00	Bocquet													
09:30														
10:00	Coffee Break													
10:30		Processing Soft Matter A	Self-assembled Soft Matter A	Living Soft Matter C	Polymeric Soft Matter A									
11:00														
11:30														
12:00														
12:30	Lunch													
13:00		Self-assembled Soft Matter C	Polymeric Soft Matter C	Active Soft Matter B	Colloidal Soft Matter B									
13:30														
14:00														
14:30														
15:00	Coffee Break													
15:30	White													
16:00														
16:30														
17:00														
17:30	Poster Session I													
18:00														
18:30														
19:00														
	Wednesday 5th													
Location:	McEwan Hall	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5									
09:00	Perkin													
09:30														
10:00	Coffee Break													
10:30		Making Soft Matter B	Polymeric Soft Matter B	Arrested Soft Matter C	Active Soft Matter C									
11:00														
11:30														
12:00														
12:30	Lunch													
13:00		Processing Soft Matter B	Arrested Soft Matter D	Interfacial Soft Matter C	Self-assembled Soft Matter B									
13:30														
14:00														
14:30														
15:00	Coffee Break													
15:30	Craig													
16:00														
16:30														
17:00														
17:30	Poster Session II													
18:00														
18:30														
19:00														
	Thursday 6th													
Location:	McEwan Hall	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5									
09:00	Ito													
09:30														
10:00	Coffee Break													
10:30		Arrested Soft Matter B	Colloidal Soft Matter C	Interfacial Soft Matter A	Living Soft Matter A									
11:00														
11:30														
12:00														
12:30	Lunch													
13:00		Making Soft Matter C	Processing Soft Matter C	Interfacial Soft Matter B	Living Soft Matter B									
13:30														
14:00														
14:30														
15:00	Coffee Break													
15:30	Dogterom													
16:00														
16:30														
17:00														
19:00	Gala Dinner (National Museum of Scotland)													
	Friday 7th													
Location:	McEwan Hall	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5									
09:00	MacPhee													
09:30														
10:00	Coffee Break													
10:30		Polymeric Soft Matter D & Self-assembled Soft Matter D	Interfacial Soft Matter D	Active Soft Matter D & Living Soft Matter D	Colloidal Soft Matter D & Processing Soft Matter D									
11:00														
11:30														
12:00														
12:30	Lunch													
13:00														
13:30														

Schedule of Talks

Organisation of topics into sessions

Each of the nine conference topics attracts three or four sessions, A, B, C and sometimes D. Sessions A and B each opens with a keynote talk followed by 4 contributed talks, while sessions C and D each comprises 6 contributed talks. Under each topic, the programme lists the sessions in their chronological order, which is sometimes not alphabetical; thus, e.g., the sessions for Interfacial Soft Matter are ordered C, A, B, D. In a few cases, the D session of two topics, e.g., Colloidal and Processing & Stressed Soft Matter, are joint.

Plenary Talks

All plenary talks are held in McEwan Hall.

- Monday, June 3 14:00 *Why soft solids fail*
 Luca Cipelletti (University of Montpellier)
- Monday, June 3 18:00 *Fast, Elastic, Defective, Active Matter*
 Sriram Ramaswamy (Indian Institute of Science, Bengaluru)
- Tuesday, June 4 9:00 *Flow and rheology at ultimate scales*
 Lydéric Bocquet (CNRS, ENS)
- Wednesday, June 5 9:00 *A Cabinet of Curiosities: Stories of Electrostatics in Soft Matter*
 Susan Perkin (University of Oxford)
- Wednesday, June 5 16:00 *Macromolecular Mechanochemistry*
 Stephen Craig (Duke University)
- Thursday, June 6 9:00 *Tough topological polymers and their applications to energy-efficient vehicles and medicine*
 Kohzo Ito (University of Tokyo)
- Thursday, June 6 16:00 *Building synthetic cells*
 Marileen Dogterom (TU Delft)
- Friday, June 7 9:00 *Biofilms: Whats in it for Soft Matter?*
 Cait MacPhee (University of Edinburgh)

Special Session: The 2019 RSC Soft Matter Lecture

(McEwan Hall)

- Tuesday, June 4 16:00 *Pixelated Polymers: Programming Function into Liquid Crystalline Polymer Networks and Elastomers*
 Tim White (University of Colorado Boulder)

Active Soft Matter

Session A: *The Appleton Tower Lecture Theatre 4*

Monday, June 3

15:30 **Keynote:** *Spontaneous and driven active matter flows*

CLÉMENT, Eric

16:10 *Group formation and cohesion of active particles with visual perception-dependent motility*

LAVERGNE, Francois A.

16:30 *Controlling efficiently active soft matter with light: from optical microfibers to photokinetic cells*

MAGGI, Claudio

16:50 *Active apolar doping determines routes to colloidal clusters and gels*

MASSANA-CID, Helena

17:10 *Resonant motion of magnetocapillary swimmers: lattice-Boltzmann simulations*

SUKHOV, Alexander

Session B: *The Appleton Tower Lecture Theatre 4*

Tuesday, June 4

13:30 **Keynote:** *Optimal navigation strategies of active colloids in complex environment*

LÖWEN, Hartmut

14:10 *Lattice Boltzmann simulations of collective phenomena in microswimmer suspensions*

BARDFALVY, Dora

14:30 *Bottom-up mechanisms for the emergence of swarming*

CHARLESWORTH, Henry

14:50 *Effective Interactions and Dynamics of Active Colloids in Phase Separating Medium*

NARAYANAN, Theyencheri

15:10 *Self-propelled particles in 3D: phase behaviour and dynamics*

SAKAI, Nariaki

Session C: *The Appleton Tower Lecture Theatre 5*

Wednesday, June 5

10:30 *Bistability in wall aggregation of active Brownian particles*

CHELAKKOT, Raghunath

10:50 *Dial-a-plume: Localised Photo-Bio-Convection On Demand*

POLIN, Marco

11:10 *Optimizing dissipation in active matter: dynamical phase transitions, clustering and collective motion*

FODOR, Etienne

11:30 *Acoustic confinement of swimming bacteria*

HOYOS, Mauricio

11:50 *Active matter and active materials: Emerging behavior in intrinsically out of equilibrium systems*

PAGONABARRAGA, Ignacio

12:10 *Active filaments: Emergent conformational and dynamical properties*

WINKLER, Roland G.

Session D (shared with Living Soft Matter): *The Appleton Tower Lecture Theatre 4*

Friday, June 7

10:30 *Defect dynamics and reconfigurable flows in confined active soft matter*

IGNÉS-MULLOL, Jordi

10:50 *Correlation length of bacterial turbulence*

MARTINEZ, Vincent Arnaud

11:10 *Wave Front Propagation Speeds in a Bacteriophage - Bacteria System*

CLAYDON, Rory

11:30 *Active vesicles: a minimal model for cell motility*

ABAURREA-VELASCO, Clara

11:50 *Stress management in composite biopolymer networks*

TAUBER, Justin

12:10 *Hydrodynamic coupling between artificial cilia*

VILFAN, Mojca

Arrested Soft Matter

Session A: *The Appleton Tower Lecture Theatre 2*

Monday, June 3

15:30 **Keynote:** *Topology, softness and rigidity in gel networks*

DEL GADO, Emanuela

16:10 *Strain localisation during yielding of soft materials*

BARLOW, Hugh

16:30 *Multi-scale relaxation in aging gels: from localized plastic events to system-spanning ‘quakes’*

BUZZACCARO, Stefano

16:50 *Microscopic Force Measurements in Colloidal Gels*

DONG, Jun

17:10 *Using sequential gelation as a method to direct gel structure and mechanics*

IMMINK, Jasper

Session C: *The Appleton Tower Lecture Theatre 4*

Wednesday, June 5

10:30 *Surface Active Microgels: a step towards soft stabilisers*

CROSBY, David

10:50 *Strongly heterogeneous motion at the depinning transition in dense dispersions*

FUCHS, Matthias

11:10 *The microscopic role of deformation in the dynamics of soft colloids*

GNAN Nicoletta

11:30 *Relaxation of weakly self-propelled particles dramatically changes at glass transition*

LEOCMACH, Mathieu

11:50 *Sheared colloidal gels: Effects of having a viscoelastic matrix*

MASSARO, Roberta

12:10 *Anisotropic Dynamics and Kinetic Arrest of Dense Colloidal Ellipsoids in the Presence of an External Field Studied by Differenti*

PAL, Antara

Session D: *The Appleton Tower Lecture Theatre 2*

Wednesday, June 5

13:30 *Chain-length dependent relaxation dynamics and glass-formation in polymers*

MATTSSON, Johan

13:50 *Correlations and forces in sheared fluids with or without quenching*

ROHWER, Christian

14:10 *Orthogonal superposition rheometry of model colloidal glasses with short-ranged attractions*

PETEKIDIS, George

14:30 *Shear-stress relaxation in free-standing polymer films*

WITTMER, J. P.

14:50 *Jamming in star polymer solutions and melts*

GURY, Leo

15:10 *Jamming and yielding in an athermal dense suspension of amorphous particles*

MAJUMDAR, Sayantan

Session B: *The Appleton Tower Lecture Theatre 1*

Thursday, June 6

10:30 **Keynote:** *Towards an Understanding of the Glass Transition? Insights from Experiment and Simulation*

ROYALL, Paddy

11:10 *Microscopic pathways for stress relaxation in repulsive colloidal glasses*

DALLARI, Francesco

11:30 *Arresting colloidal model systems*

NIKOLAENKOVA, Anna

11:50 *Slowing down supercooled liquids by manipulating their local structure*

SMALLENBURG, Frank

12:10 *How active forces influence nonequilibrium glass transitions*

SZAMEL, Grzegorz

Colloidal Soft Matter

Session A: *The Appleton Tower Lecture Theatre 1*

Monday, June 3

15:30 **Keynote:** *Law and Disorder: The unusual behaviour of ultraweak crystals*

SPRAKEL, Joris

16:10 *Nanoscale optical imaging of individual and densely packed microgel colloids*

SCHEFFOLD, Frank

16:30 *Distributions of first passage times reveal underlying free energy landscapes*

THORNEYWORK, Alice

16:50 *Aggregation of colloidal particles in the presence of hydrophobic anions*

TREFALT, Gregor

17:10 *Vertically-vibrated granular rods: topological defects and influence of imposed geometry*

VELASCO, Enrique

Session B: *The Appleton Tower Lecture Theatre 5*

Tuesday, June 4

13:30 **Keynote:** *Mix and Melt Colloidal engineering*

SACANNA, Stefano

14:10 *Assembly of patterned colloids close to a patterned substrate*

BIANCHI, Emanuela

14:30 *Reentrant transitions of adaptive dsDNA colloids*

LAURATI, Marco

14:50 *Dynamics of a forced large colloidal particle in a bath of colloidal hard spheres: Simulations and theory*

PUERTAS, Antonio

15:10 *An electric field responsive colloidal metamaterial*

ROGIER, Faranaaz

Session C: *The Appleton Tower Lecture Theatre 2*

Thursday, June 6

10:30 *Environmental nanoparticle-induced toughening and pinning of a crack in a biopolymer hydrogel*

BAUMBERGER, Tristan

10:50 *Hard times for hard spheres: Enhanced crystallization of the Laves phase from soft colloids*

COLI, Gabriele Maria

11:10 *Dynamics of soft and permeable particles suspensions*

NAEGELE, Gerhard

11:30 *Modification of wave velocity in a string fluid*

SCHWABE, Mierk

11:50 *What controls the response of soft microgels to overcrowded environments: cross-link density or architecture?*

SCOTTI, Andrea

12:10 *Shape is coupled to diffusion for flexible colloidal chains*

VERWEIJ, Ruben W.

Session D (shared with Processing & Stressed Soft Matter): *The Appleton Tower Lecture Theatre 5*

Friday, June 7

10:30 *Reversible cluster formation, gelation and glassy dynamics in colloidal dispersions*

CASTAÑEDA-PRIEGO, Ramón

10:50 *Structure of colloidal dispersions under shear probed by X-ray cross-correlation analysis*

KOOF, Michael

11:10 *Advanced modelling of microgel structure across the volume phase transition*

NINARELLO, Andrea

11:30 *External and internal deformations of colloidal crystals*

BUTTINONI, Ivo

11:50 *Extrusion of shear thickening suspensions: Variations in local solid concentrations*

O'NEILL, Rory

12:10 *Dynamics of non-spherical particles in non-Newtonian fluids with applications to microfluidic separations*

NARSIMHAN, Vivek

Interfacial Soft Matter

Session C: *The Appleton Tower Lecture Theatre 4*

Wednesday, June 5

13:30 *Capillary phenomena in miscible fluids*

CARBONARO, Alessandro

13:50 *Investigating the aging of model liquid infused porous surfaces*

GOODBAND, Sarah

14:10 *Phase transitions on non-uniform curved surfaces: Coupling between phase and location*

LAW, Jack O.

14:30 *Thermophoresis in self-associating systems*

PIAZZA, Roberto

14:50 *Time-resolved charging dynamics of confined electric double layer*

TIVONY, Ran

15:10 *Biologically Active Liquid Crystal Droplets*

SHARMA, Kamendra

Session A: *The Appleton Tower Lecture Theatre 4*

Thursday, June 6

10:30 **Keynote:** *Growing and shrinking bubbles, enhanced Ostwald ripening via mass transport in nanometer thick films*

DAGASTINE, Ray

11:10 *How to unify diffusio-phoresis, Marangoni and osmotic flows with interfacially driven transport of soft matter?*

BACCHIN, Patrice

11:30 *The effect of interfacial viscosity on the dynamics, rheology, and breakup of droplets*

NARSIMHAN, Vivek

11:50 *Soluble surfactant spreading: How the amphiphilicity sets the Marangoni hydrodynamics*

SAINT-JALMES, Arnaud

12:10 *Dynamics of Membrane Wrapping of Microparticles*

SPANKE, Hendrik

Session B: *The Appleton Tower Lecture Theatre 4*

Thursday, June 6

13:30 **Keynote:** *Demixing on curved surfaces*

KRAFT, Daniela

14:10 *Formation of Suspended Bilayers at the Air-Water Interface: A Novel Bacterial Membrane Mimic*

AYSCOUGH, Sophie

14:30 *Ions can generate large membrane curvatures*

MARZIEH Karimi

14:50 *Collective dynamics in a mixed lipid bilayer*

NAGAO, Michihiro

15:10 *Nanoparticle engulfment by bilayer membranes with compositional asymmetry*

SREEKUMARI, Aparna

Session D: *The Appleton Tower Lecture Theatre 2*

Friday, June 7

10:30 *How are salivary pellicles affected by surfactants of different ionic character?*

BOYD, Hannah

10:50 *Anisotropic self-assembly from isotropic colloidal building blocks*

BUZZA, Martin

11:10 *Microgels adsorbed at liquid-liquid interfaces: insights from realistic modelling and experiments*

CAMERIN, Fabrizio

11:30 *Confocal microscopy study of the interaction between particle-stabilised droplets and a solidification front*

DICKINSON, Katy

11:50 *Ionic Coulomb blockade as a fractional Wien effect*

KAVOKINE, Nikita

12:10 *Tribological properties of nanoconfined ionic liquids at metallic interfaces*

LAINE, Antoine

Living Soft Matter

Session C: *The Appleton Tower Lecture Theatre 4*

Tuesday, June 4

10:30 *Tooling up to build an artificial cell*

BEALES, Paul

10:50 *Phase transition behaviour in single solid-supported lipid bilayer*

GERELLI, Yuri

11:10 *Model of ciliated-cell collective behavior and mucus transport in bronchial epithelium*

GSELL, Simon

11:30 *Misalignment between magnetic dipole moment and cell axis in the magnetotactic bacterium *Magnetospirillum magneticum* AMB-1*

LE NAGARD, Lucas

11:50 *Fluid flow and motility control initial bacterial colonization on curved surfaces*

SECCHI, Eleonora

12:10 *Low Dose Antibiotics Can Cause Bacterial Aggregation*

TAVADDOD, Sharareh

Session A: *The Appleton Tower Lecture Theatre 5*

Thursday, June 6

10:30 **Keynote:** *Phase-separation in an elastic matrix: from living cells to synthetic materials*

DUFRESNE, Eric

11:10 *Unjamming overcomes kinetic arrest in terminally differentiated cells and promotes collective motility of carcinoma*

GIAVAZZI Fabio

11:30 *Toward the creation of 2D or 3D clusters of cells in acoustic levitation*

JEGER, Nathan

11:50 *Confinement-induced transition between wave-like collective cell migration modes*

LE GOFF, Magal

12:10 *Label-free, spatio-temporal monitoring of cytosolic mass, osmolarity and volume, in living cells*

MIDTVEDT, Daniel

Session B: *The Appleton Tower Lecture Theatre 5*

Thursday, June 6

13:30 **Keynote:** *Peeking and poking biological matter using optical tweezers in combination with single-molecule fluorescence microscopy*

PETERMAN, Erwin

14:10 *Bacterial chromosome organization: special crosslinks, confinement effects and molecular crowders play the pivotal roles*

CHATTERJI, Apratim

14:30 *Inter-protein forces as a cell-membrane organization principle*

DESTAINVILLE, Nicolas

14:50 *Adhesion remodelling upon cell shrinking*

STAYKOVA, Margarita

15:10 *Bacteria as living patchy colloids: Phenotypic heterogeneity in surface adhesion*

VISSERS, Teun

Session D (shared with Active Soft Matter): *The Appleton Tower Lecture Theatre 4*

Friday, June 7

See Active Soft Matter Session D for detail.

Making and Measuring Soft Matter

Session A: *The Appleton Tower Lecture Theatre 5*

Monday, June 3

15:30 **Keynote:** *Hierarchical biomechanics: from single folded proteins to cross-linked protein networks*

DOUGAN, Lorna

16:10 *Design and synthesis of catalytically active CoFe_2O_4 @Pt nanostructures*

MARTINEZ, Yeimy

16:30 *Functional Multicomponent Protein Networks with Tunable Domain Size*

RIOS DE ANDA, Ioatzin

16:50 *The structural colors of random assembled monodisperse colloids*

SCHERTEL, Lukas

17:10 *Biomimetic folding particle chains*

VAN OOSTRUM, Peter

Session B: *The Appleton Tower Lecture Theatre 1*

Wednesday, June 5

10:30 **Keynote:** *Measuring Flow in Yield Stress Fluids*

LYNCH, Matt

11:10 *Tracking-free one- and two-point microrheology of soft materials*

CERBINO, Roberto

11:30 *Colloidal SU-8 polymer rods for three-dimensional confocal imaging and optical tweezing*

FERNÁNDEZ-RICO, Carla

11:50 *Operation Windows for Interfacial Rheometry*

RENGGLI, Damian

12:10 *Learning force fields from stochastic trajectories*

RONCERAY, Pierre

Session C: *The Appleton Tower Lecture Theatre 1*

Thursday, June 6

13:30 *'Hot Spots' in pore scale flow through soft carbon fibre felt electrodes limit the efficiency of Redox Flow*

Battery operation

BOEK, Edo

13:50 *Polymer dynamics and the new high-resolution J-NSE at MLZ*

PASINI, Stefano

14:10 *Bottom-up Synthesis of Polymeric Micro- and Nanoparticles with Regular Anisotropic Shapes*

LESOV, Ivan

14:30 *Switchable 3d morphing configurations by stimuli responsive heterogeneous hydrogel*

LI, Yifan

14:50 *Polymeric nanoparticles aplenty*

NIKOUBASHMAN, Arash

15:10 *Preserving the cavity of hollow microgels by introducing charges into the polymeric network*

TURNHOFF, Sarah K.

Polymeric Soft Matter

Session A: *The Appleton Tower Lecture Theatre 5*

Tuesday, June 4

10:30 **Keynote:** *Flow-Induced Crystallization of Engineering Thermoplastics*

COLBY, Ralph

11:10 *Load distributions in multi-network elastomers*

BOSE, Anwesha

11:30 *Biompatible hydrogels: formation and structure*

RAFFAELLI, Chiara

11:50 *Domain formation in compaction of a semiflexible polymer*

CURK, Tine

12:10 *Random-packed structures of rings as a model system of Soft Matter problems*

GARCÍA, Nicolás A.

Session C: *The Appleton Tower Lecture Theatre 2*

Tuesday, June 4

13:30 *General methodology to identify the minimum alphabet size for heteropolymer design*

COLUZZA, Ivan

13:50 *A geometric model for the erosion and fragmentation of polymers in the ocean*

FABRE, Pascale

14:10 *Structure and Dynamics of Single-Chain Polymeric Nanoparticles under Shear Flow in Dilute and Concentrated Solution*

FORMANEK, Maud

14:30 *Topological Tuning of Polymer Dynamics*

MICHIELETTO, Davide

14:50 *Direct visualization of comb polymer dynamics in unentangled semi-dilute solutions using single molecule studies*

PATEL, Shivani Falgun

15:10 *Characterizing and controlling elastic turbulence in a viscoelastic fluid*

VAN BUEL, Reinier

Session B: *The Appleton Tower Lecture Theatre 2*

Wednesday, June 5

10:30 **Keynote:** *Why ‘bad’ is ‘good’: Polydispersity in polymeric nanostructures*

SCHMID, Friederike

11:10 *Nanocomposites Drying : Structural Evolution from Solution to Solid*

ERMAN, Azad

11:30 *The microscopic origin of the rheology in supramolecular entangled polymers*

GOLD, Barbara

11:50 *Unipletion in colloid-polymer mixtures*

GONZÁLEZ GARCÍA, Álvaro

12:10 *Structure and elasticity of the endothelial glycocalyx*

LOBASKIN, Vladimir

Session D (shared with Self-assembled Soft Matter): *The Appleton Tower Lecture Theatre 1*

Friday, June 7

10:30 *Smart Adsorption, playing with geometry to enhance selectivity*

CAPONE, Barbara

10:50 *Investigating DNA-based dendrimers: theory and experiment*

JOCHUM, Clemens

11:10 *Polymer foams by using microfluidics*

RUSSO, Maria

11:30 *Silk: A natural example of a sticky entangled polymer*

SCHAEFER, Charley

11:50 *Material properties of hybrid lipid-polymer vesicles: towards artificial systems for enhanced membrane protein function*

SENEVIRATNE, Rashmi

12:10 *Condensation and demixing in solutions of DNA nanostars and their mixtures*

LOCATELLI, Emanuele

Processing & Stressed Soft Matter

Session A: *The Appleton Tower Lecture Theatre 1*

Tuesday, June 4

10:30 **Keynote:** *Cavitation and Puncture: Crack Nucleation in Soft Solids*

CROSBY, Al

11:10 *Soft lubrication with polymer brushes*

BUREAU, Lionel

11:30 *Demonstrating stress transfer between networks in multiple network elastomers with mechanochemistry*

CHEN Yinjun

11:50 *High dynamic range, bio-inspired stress-sensing in polymers*

CLOUGH, Jessica

12:10 *Mechanical Properties and Failure of Physically Assembled Polystyrene-Polyisoprene-Polystyrene Gels in a Mid-block Selective Sol*

Kundu, Santanu

Session B: *The Appleton Tower Lecture Theatre 1*

Wednesday, June 5

13:30 **Keynote:** *From soft matter rheology to civil engineering*

OVARLEZ, Guillaume

14:10 *On flow, fracture and getting jammed – Failure modes in dense suspensions*

BISCHOFBERGER, Irmgrad

14:30 *Temperature Dependent Aging and Yield of Drilling Fluids*

CLARKE, Andrew

14:50 *A minimal-length approach unifies rigidity in under-constrained materials*

MERKEL, Matthias

15:10 *Repulsion, attraction and contact in dense suspensions*

ROYER, John

Session C: *The Appleton Tower Lecture Theatre 2*

Thursday, June 6

13:30 *Sorting cells in microfluidics based on their intrinsic properties*

FEDOSOV, Dmitry

13:50 *Influence of surfactant dynamics on the length scale of avalanches in foam coalescence*

MIKHAILOVSKAYA, Alesya

14:10 *Capillary Rheo-SANS: Measuring the rheology and nanostructure of soft matter at high shear rates*

MURPHY, Ryan P.

14:30 *Crack Propagation Behaviour of Polyurethane Thermoplastic Elastomers in Cyclic Fatigue*

SCETTA, Giorgia

14:50 *Small-scale fracture in soft solids*

STYLE, Robert

15:10 *Dynamics of Viscoelastic Filaments based on Onsager Principle*

ZHOU, Jiajia

Session D (shared with Colloidal Soft Matter): *The Appleton Tower Lecture Theatre 5*

Friday, June 7

See Colloidal Soft Matter Session D for detail.

Self-assembled Soft Matter

Session A: *The Appleton Tower Lecture Theatre 2*

Tuesday, June 4

10:30 **Keynote:** *Ionic Liquid Crystals: Controlling Self-Assembly and Function through Charge and Symmetry*

LASCHAT, Sabine

11:10 *Under the Smectic Blanket: Biaxial, Twist- and Splay-bend nematics revealed destabilizing the Smectic phase of Hard Boomerangs*

CHIAPPINI, Massimiliano

11:30 *Understanding the helix pitch of the equilibrium cholesteric CNC phases*

HONORATO-RIOS, Camila

11:50 *Controlling Gel Properties by Chirality*

DAVE, Adams

12:10 *Monitoring Self-Assembly of Nanocrystal Superlattices by Time- and Space-Resolved SAXS*

LOKTEVA, Irina

Session C: *The Appleton Tower Lecture Theatre 1*

Tuesday, June 4

13:30 *Tracking the Molecular Organisation of Water and Alcohol Mixtures at Hydrophobic Solid Interfaces*

FOSTER, Will

13:50 *Chirality-Controlled Self-Assembly via Topological Defects*

GRELET, Eric

14:10 *Pressure-stimulated supercrystal formation in nanoparticle suspensions*

LEHMKÜHLER, Felix

14:30 *An old tool for a new problem: tunable electrostatic adsorption via Pnipam microgels*

SENNATO, Simona

14:50 *Assembly of clathrates from tetrahedral patchy colloids with narrow patches*

NOYA, Eva G

15:10 *Unique mechanics of biopolymer microgels prepared inside artificial cells*

YANAGISAWA, Miho

Session B: *The Appleton Tower Lecture Theatre 5*

Wednesday, June 5

13:30 **Keynote:** *Squids as soft matter: evolved self-assembly of gradient-index lenses and light guides*

SWEENEY, Alison

14:10 *Colloids Get Creative: Key to Open Crystals*

CHAKRABARTI, Dwaipayan

14:30 *Mosaics of patchy rhombi: from close-packed arrangements to open lattices*

KARNER, Carina

14:50 *Self-assembly of type I collagen fibrils in solution*

NUDELMAN, Fabio

15:10 *Binary Hard Sphere Icosahedral Quasicrystals*

VAN BLAADEREN, Afons

Session D (shared with Polymeric Soft Matter): *The Appleton Tower Lecture Theatre 1*

Friday, June 7

See Polymeric Soft Matter Session D for detail.

Schedule of Posters

McEwan Hall Basement

Session A: Tuesday 4th June 17:00-19:00

Active Soft Matter	AC1	to	AC49
Arrested Soft Matter	AR1	to	AR17
Colloidal Soft Matter	CO1	to	CO20
Interfacial Soft Matter	IN1	to	IN22
Polymeric Soft Matter	PO1	to	PO16
Self Assembled Soft Matter	SA1	to	SA18

Session B: Wednesday 5th June 17:00-19:00

Colloidal Soft Matter	CO21	to	CO52
Interfacial Soft Matter	IN23	to	IN45
Living Soft Matter	LI1	to	LI16
Making & Measuring Soft Matter	MA1	to	MA9
Polymeric Soft Matter	PO17	to	PO41
Processing & Stressed Soft Matter	PR1	to	PR17
Self Assembled Soft Matter	SA19	to	SA36

The presenter of the most popular poster at each session will be awarded a pair of binoculars, kindly donated by Zeiss. The company is also sponsoring the refreshments for both sessions.

Please vote for your most popular poster at each session on the Conference app.

A poster index ordered alphabetically by presenter follows. Abstracts can be found on the app.

Presenting Author	Title	CODE
ALEXANDER, Lachlan C.	Bacterial Microswimmers in Colloidal Liquid Crystals	AC 1
ALVAREZ, Laura	Reconfigurable thermo-responsive active colloids	AC 2
AOKI, Hiroyuki	Dynamics of poly(methyl methacrylate) chain in thin films during solvent annealing studied by neutron reflectometry	PO 3
AOYAMA, yurina	Fabrication of 2D Charged Colloidal Crystals by Electrostatic Particles Adsorption on Oppositely Charged Substrates	CO 52
ARAKI, Takeaki	Illumination-induced motion of Janus particle in binary mixtures	AC 3
BABU Sujin B	Dynamical arrest in binary colloidal system with static and dynamic cages.	AR 2
BAEK, Yongjoo	A systematic Markovian approximation for active particles	AC 4
BARTY-KING, Charles H	Demonstration of a touch-responsive photonic laminate from cellulosic material and roll-to-roll processing	MA 9
BELL-DAVIES, Miranda	Correlated diffusion of colloidal particles in two-dimensional random confinement	CO 30
BEN XU	New Energy Generator by Trampolining Elastic Gel (NEGTEG)	AC 5
BINTEIN, Pierre	Kirigami fog nets	IN 1
BISWAS, Subhadip	Equilibrium phases of soft macromolecular confinement	IN 2
BLAAK, Ronald	Development of coarse-grained models for polymer materials	PO 5
BOATTINI, Emanuele	Revealing hidden structures with unsupervised learning	CO 2
BOCQUET, Marie-Laure	How Graphene and Hexagonal Boron Nitride get electrified in water?	IN 3
BOEDDEKER, Thomas	The Polymer Network of the Cytoskeleton affects Intracellular Phase Separation in Eukaryotic Cells	LI 1
BOEK, Edo	Enhancing lipid extraction from micro-algae suspensions using depletion flocculation and micro-fluidics	LI 2
BOON, Willem	Surface charging kinetics reveals reaction mechanism	IN 44
BOTIN, Denis	Complete density dependence of charged sphere colloid electrophoretic mobilities.	CO 3
BRADLEY, Joe	Jamming and shear thickening in a centrifuge	CO 4
BRIJITTA, Joseph Boniface	Electric Field Induced Self-Assembly of Highly Crosslinked Ionic Microgels: Correlations from Microscopic and Scattering Studies	SA 15
BRITO, Mariano E.	Deswelling effects on transport properties of ionic microgel suspensions	PO 6
BROWN, Aidan	A phase diagram for an active nematic confined to a spherical shell	AC 6
BUREAU, Lionel	Adhesive interactions under flow at blood cell/vascular wall mimetic interfaces	LI 3

CANALE, Luca	Nanotribology of ice	IN 4
CHAKRABARTI, Buddhapriya	Coupled phase separation and surface migration in binary polymer gels: A multiscale simulation study	PO 7
CHAMBON, Lucille	Soft micron-sized hollow rods of high aspect ratio	PO 8
CHANDRAGIRI, Santhan	Active nematics in channels	AC 7
CHATTERJI, Apratim	Self assembled linear polymeric chains with tuneable semiflexibility using isotropic interactions	PO 9
CHEN, Jinju	How different chemical treatment affects mechanical fingerprint of P.fluorescens biofilms	LI 8
CHEPIZHKO, Oleksandr	Circle microswimmers in crowded media. Limit of ideal trajectories and the influence of noise.	AC 8
CHIAPPINI, Massimiliano	Machine learning phases of matter and spatially varying order parameters	SA 2
CHUPAKHIN, Alexander	Experimental investigation of EVOH precipitation in a T-shaped microchannel	PO 1
CIACH, Alina	Density Functional Theory for Systems with Competing Interactions	SA 3
CĪMURS, Janis	Stable structures of paramagnetic particles in precessing magnetic field	SA 14
CORSI, Pietro	Exploiting Scaling Laws for Designing Polymeric Bottle Brushes: a Theoretical Coarse-Graining for Homopolymeric Branched Polymer	PO 10
CRUZ, Carolina	Electrical Double Layers Close to Ionic Liquid-Solvent Demixing	IN 5
d'ÁVILA, Marcos Akira	Rheology and extrusion 3D printing of nanocomposite hydrogels based on cellulose nanocrystals	PR 1
DAMERAU, Brian	Reinforcing Soft Gels	AR 3
DE GRAAF, Joost	The Impact of Hydrodynamics on Colloidal Gelation under Gravity	AR 4
DEBERTRAND, Louis	Increasing the extensibility of chemically crosslinked hydrogels with dynamic coordination bonds	PR 2
DEN OTTER, Wouter	Fluctuating stresses and the intrinsic viscosity of colloids	CO 5
DHAS, Darish Jeswin	Stability of a particle-laden film falling down an incline	CO 6
DHUMAL, Umesh	Phase behaviour of mixtures of hard and penetrable particles	SA 4
DIAZ-DE ARMAS, Ariel	Effect of nano-confinement in the phase behaviour of hard platelets	IN 6
DIJKSTRA, Marjolein	Watching the Birth of a Binary Icosahedral Quasicrystal of Hard Spheres	CO 7
DJAFER-CHERIF, Ilyas	Active junctions as a pathway to stress generation in morphogenesis	LI 4

DOBROSERDOVA, Alla	Magnetic properties of magnetoactive elastomers studying by molecular dynamics simulations	PO 39
DODOO, Jennifer	Stressed magnetic droplets	PR 3
DOHNI, Balkis	Interface properties of phase separated colloid-polymer mixtures	IN 7
DONG, Junhao	Unifying viscous and inertia regimes of discontinuous shear thickening suspensions	CO 18
DUMY, Gabriel	Acoustic propulsion of metallic nano-cylinders: contribution of the local vertical acceleration	AC 10
DUSSI, Simone	Fracture of diluted networks: cracking or yielding?	PR 4
EDERA, Paolo	Multiscale study of nonaffine dynamics in stressed soft solids at the yielding transition	PR 5
EMMERICH, Théo	Single channel ionic transport in an etched boron nitride crystal	CO 50
ERIGI, Umashankar	Contact Aggregation and Bridging of Athermal Nanorod Dispersions -A Molecular Dynamics Study	PO 11
ERMAN, Azad	Nanocomposites Drying : Structural and Mechanical Analysis	PO 12
FEDOSOV, Dmitry	Toward theoretical model for cell blebbing	LI 5
FERNANDEZ-RODRIGUEZ, Miguel Angel	Two-dimensional complex tessellations beyond triangular symmetry by sequential assembly of soft colloids	SA 6
FISCHER, Julian	Flow-induced Structural Changes of Microemulsions studied by Microfluidic-SANS	PR 6
FONG, Rebecca	Small molecule segregation in poly(vinyl alcohol) films	IN 8
FORSTER, Joel	Optimising Membrane Uptake of Patchy Nanoparticles by Artificial Evolution of Coarse Grain Simulations	LI 6
FRANCO, Silvia	Rheology and phase behaviour of multi-responsive soft microgels	CO 8
FRANOSCH, Thomas	Time-dependent active microrheology in dilute colloidal suspensions	PR 7
FRENCH Joseph	Probing the interface of colloidal interaction; experimentally examining the double layer overlap.	CO 9
FRENCH, David	Tailored bicontinuous soft solids for energy applications	IN 9
FRENZEL, Lara	Anomalous Dynamics of Concentrated Silica-PNIPAm Nanogels	CO 23
FRIELINGHAUS, Henrich	Model Complex Fluids with Dispersed Clay Particles	IN 10
FURUKAWA, Akira	The emergence of cooperativity accompanying vitrification: Insights from density fluctuation dynamics	AR 1
FUSSELL, Fussell	Thermoresponsive gelation of pNIPAM microgels in the presence of non-ionic surfactant	AR 5
GAHAN, Lianne D	Coarse Grained Simulations of Amyloid- β in Alzheimer's Disease	SA 7

GARCIA, Nicolás A.	Static and dynamics of entanglements in the lamellar phase of block copolymers	PO 13
GARLEA, Ioana C.	Self-organization of networks formed by block copolymer stars	PO 14
GEIGER, J. D.	Rotational and translational diffusion of elliptical particles	CO 14
GERBER, Dominic	Controlling crystal growth soft hydrogels	SA 8
GIBSON, Colin	Molecular migration in semi-crystalline polymer films	IN 11
GONZÁLEZ GARCÍA, Álvaro	Compartmentalisation of tiny depletants in crowded discotics	CO 10
GOODBAND, Rachel	Biomimetic Polymeric Membranes	SA 9
GOULD, Emily	Autonomous analysis of confocal images: using machine learning to recognize bijels	MA 1
GOZDZ, Wojciech	Investigation of fluid-fluid and solid-solid phase separation of symmetric non-additive hard spheres at high density.	CO 11
GRELET, Eric	When bigger is faster: how non-commensurability in particle size favors self-diffusion in smectics	SA 10
GRIFFITHS, Sam	Activity-Induced Breakup of Colloidal Aggregates	AC 11
GRUBER, Markus	Critical dynamics of active microrheology in a colloidal glass	AR 6
GVOZDEN, Katarina	Self-assembly of all-DNA patchy rods	SA 11
HAFNER, Anne E.	In silico fibrillogenesis of collagen mimetic molecules	SA 12
HANSEN, Jan	Non-equilibrium states of protein solutions: phase separation and dynamical arrest	AR 7
HANSEN, Jan	From protein phase behavior to second virial coefficient	CO 12
HENRICH, Oliver	Coarse-Grained Modelling of DNA Hydrogels	SA 13
HERMANN, Sophie	Phase coexistence of active Brownian particles: Anything for a quiet life	AC 13
HOLDERER, Olaf	Membranes at the Solid-Liquid Interface Studied with Grazing Incidence Neutron Spin Echo Spectroscopy	IN 12
HOSAKA, Yuto	Shear viscosity of active enzyme solutions	AC 14
HOUGHTON, Mark	A Node Coupling Approach to Modelling Random Fibre Networks	PO 15
HSU, Hsiao-Ping	Entanglement effect in highly strained polymer melts	PR 8
HULIKAL CHAKRAPANI, Thejas	Mesoscopic modeling of ink penetration into paper	IN 13
HUTCHINSON, Joseph D.	Grain Growth in Impurity-Doped Two-Dimensional Colloidal Hard Sphere Crystals	CO 13
IGNÉS-MULLOL, Jordi	Tailoring plasmonic response by Langmuir–Blodgett gold nanoparticle templating for the fabrication of SERS substrates	IN 14
ILHAN, Beybin	A Method for Reversible Control over Nano-Roughness of Colloidal Particles	CO 49
ISHIMOTO, Yukitaka	Dynamical rheological properties of in-silico epithelial tissue by vertex models.	LI 7

JHALARIA, Mayank	Glass to liquid transition in model matrix-free polymer grafted nanoparticle systems	AR 8
JIANG Yujie	Shear-switched Bistability in Binary Systems	CO 15
JØRGENSEN, Loren	Impact of highly concentrated suspension drops	CO 16
JOSEPH, Pierre	Pore cross talk in colloidal filtration studied by nanofluidic chips	CO 17
JUDGE, Nicola	Self-Assembling Block Copolymers in the Nucleation of Hydroxyapatite	SA 16
JUNG, David	Ordered nanostructure formation in fluid mixtures with antagonistic salts	IN 15
KAHL, Gerhard	Controlled self-aggregation of polymer-based nanoparticles employing shear flow and magnetic fields	PO 17
KAHL, Gerhard	Novel hybrid crystal-liquid phase formed by heterogeneously decorated colloidal particles	SA 17
KAPTEIJNS, Geert	Quantifying the mechanical disorder of solids	AR 9
KAVOKINE, Nikita	Experiencing the Force: giant photomechanical transduction in a thermophoretic quantum dot suspension	AC 15
KHOBAIB, Khobaib	Opening and closing of particle shells on droplets via electric fields and its applications	SA 18
KIKUCHI, Kei	The swimming modes of barnacle cypris larvae	AC 16
KIM, So Youn	Self-assembled Copolymer Adsorption Layer-Induced Block Copolymer Nanostructures in Thin Films	IN 16
KING, David	Viscoelastic Properties of Rigid Star-Like Polymers	PO 18
KLEBES, Jason	Geometry of the particle monolayer on Pickering emulsions droplets	IN 17
KOBAYASHI, Hideki	Self-consistent multi-scale simulation of colloidal mixtures	CO 19
KOBAYASHI, Yusei	Self-assembly and thermal conductivity of nanofluid using Janus or homogeneous nanoparticles	CO 20
KOLLI, Hima Bindu	Tunable polymer-liquid crystalline mixtures: phase behaviour and surface migration	PO 19
KRAUSSER, Johannes	Pathways of amyloid aggregation on lipid membranes	SA 19
KRUTEVA, Margarita	Structure and dynamics of ring and linear polymer blends	PO 20
KSIĘŻARCZYK, Karolina	Chemical modulation of phage stability	LI 9
KUBIAK, Katarzyna	Oscillatory depletion forces present between silica microparticles in solutions of various polyelectrolytes	IN 18
KULKARNI, Chandrashekhar V.	The Role of Chain Splay in Probing the Changes in Lipid Molecular Shapes at Variable Conditions.	IN 19

KULKARNI, Chandrashekhar V.	Physicochemical Interactions of Imidazolium-based Ionic Liquids with Monoglyceride Lipids	SA 1
KUNDU, Santanu	Self-assembled gels of Fmoc and P3HT	SA 27
KURON, Michael	Simple swimmers reverse direction near a surface	AC 17
KYREMAH, Charlotte	Observation of Nematic Liquid Crystal Textures in a Fourier Phase Contrast Microscopy	SA 20
KYREY, Tetyana	Internal structure and dynamics of homogeneously and heterogeneously crosslinked PNIPAM microgels	PO 2
LAGANAPAN, Aleena	On the brownian and precessional motion of dense ellipsoidal colloids	CO 22
LAKEY, Christopher	Swimmers in Smectics	AC 18
LATREILLE, Pierre-Luc	Boosting of the diffusion of soft nanoparticles in confined media	LI 10
LE GOFF, Magali	Criticality at finite deformation rates in sheared yield stress materials under external excitations	CO 24
LEE, Eunsang	Thermodynamic of Supramolecular Polymers with Hydrogen Bonding Ends	PO 21
LEE, Seunghwan	Soft Matter at a rubbing interface: a therapeutic application in total joint arthroplasty	IN 20
LEHMKÜHLER, Felix	Heterogeneous local order in soft matter systems studied by X ray cross correlation methods	SA 21
LEONI, Fabio	Neural networks for nucleation	CO 25
LESNIEWSKA, Magdalena	Microfluidic Flow of Colloid-Liquid Crystal Composite Materials	CO 26
Li, Tao	Controlling the Morphology Evolution of a Particle-Stabilized Multi-Component System	AR 10
LIEBETREU, Maximilian	Hydrodynamic Inflation of Ring Polymers under Shear	PO 22
LITWINOWICZ, Matthew	Migration of amphiphilic molecules in a curable polymer matrix	IN 21
LIU, Chang	Quickly Reversible Structural Evolution Reinforces Slide-Ring Gels	PO 41
LOBASKIN, Vladimir	Consensus vs polarization: Collective behavior of active particles with selective interactions	AC 19
LOCATELLI, Emanuele	Structural properties of mixtures of stars polymers and long chains	PO 23
LOPEZ, Hender	Short-time diffusive dynamics of proteins in a naturally crowded environment	CO 27
MAC INTYRE, Jonatan	Particle concentration effect on the T1 events' distribution in foams	AR 11
MACIOLEK, Anna	"Current-mediated synchronization of a pair of beating non-identical flagella	AC 20
MACIOLEK, Anna	Coarsening phenomena around hot Janus colloid	AC 21
MAIMOUNI, Ilham	Microfluidic-based polymeric foams as potential photonic structures	PO 16

MARCOTTE, Alice	Electro-hydrodynamic coupling in ionic transport through one-nanometer radius carbon nanotubes	IN 22
MARIN AGUILAR, Susana	Exploring rotational dynamics in glassy patchy particles systems	AR 12
MARTIN-GOMEZ, Aitor	Collective motion of assemblies of active Brownian filaments	AC 23
MARTÍNEZ-RATÓN, Yuri	Nematic and Triatic phases of hard isosceles triangles: One component fluid and binary mixtures	CO 28
MARTINEZ, Vincent	Rheo-imaging of a swimming bacterial suspension: effect of system-size	AC 22
MARTINEZ, Vincent Arnaud	Dynamics of turbid colloidal suspensions using Differential Dynamic Microscopy	MA 2
MARTINEZ, Yeimy	Design and synthesis of catalytically active CoFe ₂ O ₄ @Pt nanostructures	AC 49
MATSUYAMA Akihiko	Theory of twist-bend nematic phases for banana-shaped molecules with axial chirality	PO 24
MAULEON AMIEVA, Abraham	Spontaneous Behaviour in Electrically-activated Colloids	AC 24
MCCLEMENTS, Jake	Utilising Force Spectroscopy to Investigate Desorption and Single Chain Pull-out from Polymer Thin Films	IN 23
MCHALE, Lewis	A constraints-based approach to tuning the rheology of a non-model suspension	CO 29
MELAUGH, Gavin	Physical mechanisms of cell-cell cohesion and aggregation in liquid suspensions of bacteria	LI 11
MOELLER, Nadir	Role of pH in Microswimming	AC 25
MOINUDDIN, Mohammad	The effect of architecture and topology on the self-assembly of polymer-grafted nanoparticles	SA 22
MOORE, Fergus	Anomalous dynamics of active particles in porous media	AC 26
MORCILLO PEREZ, Carmen	Complex Formulations Drying on Complex Substrates	CO 31
MOSBY, Lewis	Understanding the Tip Tracking Mechanism of End-Binding Proteins on Microtubules	LI 12
MUIR, Edward	Fracking Bacteria: The mechanical origin of submerged colony morphology	LI 13
MUKHINA, Tetiana	Out-of-equilibrium active membranes: incorporation of bacteriorhodopsin in a floating lipid bilayer	IN 24
MUNTZ, Iain	Interaction Between Nearly Hard Colloidal Spheres at an Oil-Water Interface	IN 25
MURALEEDHARA PAI, Mayarani	On the origin and evolution of depletion zone in coffee stains	CO 32
MUSTAKIM, Mahammad	Sub-Arrhenius diffusion in a binary colloidal system	CO 33
NAEBELE, Gerhard	Dynamics of protein dispersions with competing interactions: Theory, simulation and experiment	CO 34

NALLAMILI, Trivikram	Complex coacervation of food grade cationic surfactant Lauric Arginate with anionic algal polysaccharide Lambda Carrageenan	PO 34
NARDINI, Cesare	Effect of long-range interactions on reversible to irreversible transition	AC 27
NAVEEN KUMAR, Parinamipura M.	Monodisperse Liquid Crystal Droplets for Bio	PO 26
NIKOLAENKOVA, Anna	Real-space study of homogeneous crystallization of (nearly) hard sphere colloids by arresting the dispersion	SA 23
NIKOUBASHMAN, Arash	Semiflexible Polymers in Spherical Confinement	PO 4
NOVAK, Ekaterina	Self-assembly in magnetic filament systems of different topologies: influence of additional central interaction	SA 36
NOVAK, Sanja	Stimuli-responsive hierarchical self-assemblies of DNA-polymer hybrids	SA 24
NOYA, Eva G	Nucleation of pseudo hard-spheres and dumbbells at moderate metastabilities: appearance of A15 Frank-Kasper phase at inte	SA 5
O'CONNELL, Adam	Rheology and light scattering on locust bean gum solutions	PO 25
O'NEILL, Rory	Extrusion of shear thickening suspensions: Variations in local solid concentrations	CO 36
OHZONO, Takuya	Site-specific attraction of surface colloids driven by gradients of liquid crystalline distortions	CO 44
OKUZONO, Tohru	Another mechanism of diffusiophoresis with chemical reaction on a colloidal particle	CO 35
OSTROVSKIY, Boris	An effect of surface ordering on the smectic A to hexatic B phase transition in free standing smectic films	IN 28
PADMANABHAN, Poornima	Self-assembly of chiral mesophases from block copolymers using particle-based simulations	SA 25
PAL, Antara	Stimuli Responsive Nematic and Smectic Liquid-crystalline Orders in Suspensions of Colloidal Ellipsoids Studied by SAXS	SA 26
PALADI, Florentin	Parametric Modelling of Phase Transitions	AR 13
PALBERG, Thomas	Low density Colloidal Coulomb Glasses	AR 16
PALIWAL, Siddharth	The role of topological defects on the two-stage melting and elastic behavior of Active Brownian colloids	AC 28
PANERU, Govind	Realization of an artificial active bath with controlled activity	AC 29
PARASCHIV, Alexandru	Dynamic clustering regulates activity of mechanosensitive membrane channels	IN 29
PARK, Gun Woo	The effect of dispersion transport properties on the concentration-polarization layer in crossflow ultrafiltration	PR 9

PASZKOWSKA, Karolina	The interaction between T4 bacteriophages and different polypropylene surfaces	LI 14
PETERSEN, Charlotte	Subdiffusion in soft crowded media	PR 10
PIOLI, Roberto	Capillary deposition of microorganisms in a microfluidic channel for the study of cells in spatially controlled environments	AC 30
PULLAGURA, Bhargav Krishna	Production of microfibers using solvent removal in microfluidics	PR 11
PURI, Sneha	Mechanical Characterization of Human Serum Albumin Microcapsules Using Electro-deformation Technique	IN 30
PUSHKIN, Dmitri O.	Biological mixing across dimensions	AC 9
QI, Kai	Enhanced rotational diffusion of squirmers in viscoelastic fluids	AC 31
RADHAKRISHNAN, Rangarajan	Asymmetric stress response in oscillatory shear of dense non-Brownian suspension studied by particle simulation	CO 37
RAVAL, Jeel	Effect of Adhesion on the shape transformation of vesicles.	IN 31
REICHERT, Julian	Transport coefficients of dense active Brownian particles	AC 32
REYNOLDS, Matthew	Chain-length dependent rheology and relaxation dynamics in glass-forming oligomers and polymers	AR 14
RICHARDS, James	Competing Time Scales Lead to Oscillations in Shear-Thickening Suspensions	PR 12
RIGBY, Natasha	Stimuli-Responsive Lipogel Capsules	IN 32
ROCA-BONET, Sergi	Dimeric and trimeric colloids driven by Thermophoresis	AC 33
RODENBURG, Jeroen	Ratchet-induced variations in bulk states of an active ideal gas	AC 34
RODRIGUES, Sergio	Nanostructure of particles revealed by SAXS/WAXS	MA 3
RODRÍGUEZ-MATUS, Marcela	Dynamic boundary layers in charged nanopores	IN 33
Rogier, Faranaaz	Active particles at crowded liquid interfaces	AC 35
ROLLER, Jörg	Translational and rotational dynamics of elliptical PMMA colloids	CO 38
ROMA, Elia	Thermoresponsive Block Copolymer Grafted on Core-Shell Nanoparticles	PO 27
ROVIGATTI, Lorenzo	Connecting elasticity and effective interactions of microgels: the validity of the Hertzian model	PO 28
RUDOLF, Marcel	Confocal microscopy of optically trapped colloids	CO 39
RUIZ-LOPEZ, Jose	Cornstarch suspensions in squeeze flow	CO 40
RYCROFT, Ewan	The Effects of Complex Rheology on the Swimming Velocities of a Flagellated Alga	AC 36
SABER, Wiebke F. C.	Standing up and peeling off of nanosized shish-kebab structures formed in melt-spun HDPE and nylon6/clay nanohybrid fibres	PO 29

SAINT-JALMES, Arnaud	Designing responsive foams with an adjustable temperature threshold of destabilization	IN 34
SAVORANA, Giovanni	Miscible Two-fluid Channel Flow: Velocity Profiles and Hydrodynamic Stability	IN 35
SCACCHI, Alberto	Flow induced crystallization of penetrable particles	CO 41
SCHAERTL, Nicole	Competing solidification and fractionation kinetics in hard sphere melts	CO 1
SCHRODER, André	Rapid confocal imaging of vesicle- to-sponge phase droplet transition in dilute dispersions of the C10E3 surfactant	IN 45
SENNATO, Simona	How do halloysite nanoclays interact with negatively-charged polyelectrolytes?	CO 42
SERNA, Horacio	Effects of confinement on self-assembly in systems with competing interactions	SA 28
Shakirov, Timur	Folded alkane chains and the emergence of the lamellar crystal	PO 30
SHEK, Alvin	Sticky Slips	IN 36
SHIVERS, Jordan	Nonlinear Poisson effect in critical mechanical networks	LI 15
SICHER, Alba	Bioinspired structural color from phase separating polymers	PO 40
SINGH, Rajesh	Nucleation and growth in a scalar momentum-conserving active matter	AC 37
SKINGLE, Chloe	Controlled Interfacial Shear for Alignment of Cellulose Nano-crystals	IN 37
SLEPUKHIN, Valentin	Topological effects in cross linked bundles of semiflexible filaments	PO 31
SORICHETTI, Valerio	Dynamics of a polymer-nanoparticle composite: Effect of nanoparticle size and volume fraction	PO 32
SOTTMANN, Thomas	Nanostructure of foamable polyol-rich CO ₂ -microemulsions	IN 38
SQUILLACE, Ophelie	A model of tethered lipid bilayers using anchor-harpoon surfactants on designed electrodes	IN 26
SQUILLACE, Ophelie	Partitioning of flavors in polyvinyl acetate based matrices with polarity mismatch.	IN 27
STENBERG, Samuel	Ionic liquid phase transitions near charged, perfectly conducting electrodes	IN 39
Stephen Williams	Colloidal transport in heterogeneous landscapes of micro-swimmer activity	AC 38
STOEV, Iliya	On the Role of Flexibility in Linker-Mediated DNA Hydrogels	SA 29
SZAMEL, Grzegorz	How active forces influence nonequilibrium glass transitions	AC 12
TAKAE, Kyohei	Shape controls polarization: Self-organization into ferroelectric and antiferroelectric crystals by shape-anisotropic particles	CO 21
TAKAMICHI, Terao	Molecular simulation of generalized Gaussian-core model	CO 43
TAKIKAWA, Yoshinori	Freedericksz transition in dual frequency nematic liquid crystal PCPB / MBBA mixtures	PO 33
TAN, Zihan	Quasi-two-dimensional dispersion dynamics of protein monolayers	LI 16

TATENO, Michio	Numerical prediction of colloidal phase separation by direct computation of Navier-Stokes equation	AR 15
TAVARES, José M.	Irreversible aggregation with two time scales	SA 30
TEN NAPEL, Daniël	Active Colloidal Circlers	AC 39
TESTA Andrea	Active Coacervate Droplets	AC 40
TRBOJEVIC, Nina	Templating the twist-bend nematic liquid crystal phase	SA 31
TREFALT, Gregor	Non-Exponential Double-Layer Forces	CO 45
TRINH, Pierre	Reactive foams : can we accelerate chemical reactions	IN 40
TSENG, Shih-Yu	Novel Amphiphilic Polycarbonate Di-Block Copolymers Applied to Nonionic Microemulsions	IN 41
UM, Eujin	Synchronization of droplet breakup from oscillating interfaces of fluids	PR 13
UNDERHILL, Patrick	Propulsion of catalytic Janus spheres in viscosified solutions	AC 41
VAN DAMME, Robin	Interparticle torques suppress motility-induced phase separation for rod-like particles	AC 42
VENTURA ROSALES, Ivonne Elizabeth	Microelasticity of deformable spherical diblock copolymer brushes	PO 35
VIS, Mark	Quantification of the structure of colloidal gas-liquid interfaces	CO 46
VITORINO, Miguel	Measuring nanoscale properties of water capillary menisci	MA 4
VLIEGENTHART, Gerrit	Filamentous Active Matter: Band Formation, Bending, Buckling, and Defects	AC 43
VOIGTMANN, Thomas	Active Brownian Particles at High Densities	AC 44
WAGNER, Susanne	Structure and thermodynamics of elliptic patchy particles	SA 32
WATANABE, Chiho	Molecular diffusion in cell-mimicking droplets depending on size and shape	IN 42
WATANABE, Chiho	Membrane adhesion of liposomes increases membrane tension and regulates in-membrane molecular diffusion	IN 43
WEISS, Lisa B.	Hydrodynamics and filtering of knotted ring polymers in nanochannels	PR 14
WEISS, Lisa B.	Semidilute mixtures of circular and linear polymers - towards novel separation techniques	PR 15
WESTERMEIER, Fabian	Measuring the dynamics of soft matter using coherent X-ray radiation	MA 5
WILLIAMSON, Jack	The Synthesis and Materials Properties of Aromatic Cation Liquid Crystals	MA 6
WINKLER, Roland G.	Active Brownian particles: Local pressure in nonequilibrium systems	AC 45
WOOD, Jared	Self Assembly	SA 33
WYATT, Peter James McCormack	A grating-aligned shock-resistant ferroelectric liquid crystal electro-optic shutter with sub-millisecond response times	SA 34

YAMAMOTO, Jun	Phantasmagoric liquid crystals	SA 35
YAN, Tingzi	Solid polymer electrolytes based on polymer blends	PO 36
YANAGISAWA, Miho	Sol–gel coexisting phase of polymer microgel triggers buckling without applying pressure	PR 16
YANG, Yushi	What changes the collective behaviour of a group of zebrafish	AC 46
YETHIRAJ, Anand	Non-equilibrium, driven self-assemblies in an oil-in-oil emulsion	AC 47
YURCHENKO, Stanislav O.	Systems with broken third Newton's law: Dissipative phase transitions and particle-resolved studies with complex plasmas	AC 48
YURCHENKO, Stanislav O.	2D colloids in rotating electric fields: Tunable interactions and particle-resolved studies of generic phenomena	CO 47
ZAMPONI, Michaela	Upgrades of the neutron backscattering spectrometer SPHERES	MA 7
ZAMPONI, Michaela	The role of functionality on the branch point motion in star polymers	PO 37
ZANCHETTA, Giuliano	A microscale approach to yield stress materials: investigation of nonlinearity and yielding with an optofluidic micro-rheometer	PR 17
ZHANG, Chi	Establishing uniform emulsions as a model system for studying dynamics and rheology across the glass and jamming transitions	CO 48
ZHANG, Zhaopeng	PVdF-HFP/PVDF-based polymer blends and gels for Li-ion battery electrolyte applications	PO 38
ZINN, Thomas	Microstructure and Dynamics of Magnetic Nickel-Silica Janus Particles in a Static Magnetic Field	AR 17
ZINN, Thomas	New opportunities for multi-speckle x-ray photon correlation spectroscopy at ultra-small-angles	MA 8
ZVEREV, Vladimir	Dynamic properties and relaxation times of a cluster interacting superparamagnetic particles in an oscillating magnetic field	CO 51