

Chemical and Polymer Physics Division Fachverband Chemische Physik und Polymerphysik (CPP)

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Overview of Invited Talks and Sessions

(Lecture halls H 0106, H 0107, H 0110, and H 0111; Poster C and E)

Invited Talks

CPP 1.1	Mon	9:30–10:00	H 0106	Customized Cathodes for All-Solid-State Battery Application — •TORSTEN BREZESINSKI
CPP 2.1	Mon	9:30–10:00	H 0107	Lessons learned from coarse-grained molecular simulations of disordered proteins — •ARASH NIKOUBASHMAN
CPP 3.1	Mon	9:30–10:00	H 0110	Flexibility, connectivity, and topological constraints in polymer crystallization — •TOSHIKAZU MIYOSHI
CPP 6.1	Mon	11:30–12:00	H 0106	Stretchable, redispersible, recyclable: reversible interfaces for electrically conductive hybrids and composites — •TOBIAS KRAUS
CPP 13.1	Mon	16:15–16:45	H 0107	The boson peak in the vibrational spectra of glasses — •EDAN LERNER
CPP 17.1	Tue	9:30–10:00	H 0107	Dipole-driven Self-assembly and Dynamics in Solutions of Charged Macromolecules — •MURUGAPPAN MUTHUKUMAR
CPP 18.1	Tue	9:30–10:00	H 0110	Via bottom-up synthesis of nanoobjects and nanocomposites towards brain-inspired electronics — •ALEXANDER VAHL
CPP 22.1	Wed	9:30–10:00	H 0106	Production of various hybrid bio-based gel ink made of polymer grafted nanocellulose, suitable for 3D printing application — •JULIEN R.G. NAVARRO, XUEHE JIANG, FERAS DALLOUL, ENGUERRAND BARBA, BENEDIKT MIETNER
CPP 24.1	Wed	9:30–10:00	H 0110	Thermoresponsive polymers in aqueous environments: insights by atomistic simulations — •ESTER CHIESI
CPP 34.1	Thu	9:30–10:00	H 0106	Towards AI-assisted analysis of surface and small-angle x-ray and neutron scattering data — •MARINA GANEVA
CPP 35.1	Thu	9:30–10:00	H 0107	Extraordinarily slippery liquid-repellent surfaces using self-assembled monolayers — •ROBIN RAS
CPP 36.8	Thu	11:30–12:00	H 0110	Digital luminescence: Novel platform for minimalistic photonic applications based on programmable luminescent tags — •SEBASTIAN REINEKE
CPP 37.1	Thu	9:30–10:00	H 0111	Self-organized protein/polysaccharide nano-assemblies for applications in biomedical and food sciences — •ARISTEIDIS PAPAGIANNOPOULOS
CPP 41.1	Thu	11:30–12:00	H 0107	A multi-scale approach to characterize wetting within a porous medium — •MAJA RÜCKER, RYAN T. ARMSTRONG, CHENHAO SUN, PEYMAN MOSTAGHIMI, STEFFEN BERG, PAUL LUCKHAM, APOSTOLOS GEORGIADIS, JAMES E. MCCLURE
CPP 44.1	Thu	15:00–15:30	H 0110	Colloids and the depletion interaction: multi-phase coexistence of colloidal mixtures — •REMCO TUINIER
CPP 50.1	Fri	9:30–10:00	H 0110	Condensation on soft substrates — •AMBRE BOUILLANT, BRUNO ANDREOTTI, JACCO H. SNOELJER
CPP 50.6	Fri	11:15–11:45	H 0110	Of Singularities and Controversies: The Soft Wetting Enigma — •STEFAN KARPITSCHKA
CPP 53.1	Fri	11:30–12:00	H 0107	A hierarchical fabrication strategy for multi-responsive actuators with structural reconfiguration-assisted self-healing ability — •QING CHEN

Invited Talks of the joint Symposium SKM Dissertation Prize 2024 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	H 1012	Nonequilibrium dynamics in constrained quantum many-body systems — ●JOHANNES FELDMEIER
SYSD 1.2	Mon	10:00–10:30	H 1012	Controlled Manipulation of Magnetic Skyrmions: Generation, Motion and Dynamics — ●LISA-MARIE KERN
SYSD 1.3	Mon	10:30–11:00	H 1012	Interactions within and between cytoskeletal filaments — ●CHARLOTTA LORENZ
SYSD 1.4	Mon	11:00–11:30	H 1012	Field theories in nonequilibrium statistical mechanics: from molecules to galaxies — ●MICHAEL TE VRUGT
SYSD 1.5	Mon	11:30–12:00	H 1012	Lightwave control of electrons in graphene — ●TOBIAS WEITZ

Invited Talks of the joint Symposium New Trends in Nonequilibrium Physics: Conservation Laws and Nonreciprocal Interactions (SYNP)

See SYNP for the full program of the symposium.

SYNP 1.1	Thu	15:00–15:30	H 0105	Universality classes of nonequilibrium phase transitions with conservation constraints — ●WALTER ZIMMERMANN
SYNP 1.2	Thu	15:30–16:00	H 0105	The many faces of living chiral crystals — ●NIKITA FAKHRI
SYNP 1.3	Thu	16:00–16:30	H 0105	Non-reciprocal pattern formation of conserved fields — ●FRIDTJOF BRAUNS, M CRISTINA MARCHETTI
SYNP 1.4	Thu	16:45–17:15	H 0105	Phase transitions and fluctuations of nonreciprocal systems — ●SARAH A.M. LOOS
SYNP 1.5	Thu	17:15–17:45	H 0105	Chiral matters — ●WILLIAM IRVINE

Sessions

CPP 1.1–1.6	Mon	9:30–11:15	H 0106	Energy Storage and Batteries I
CPP 2.1–2.12	Mon	9:30–13:00	H 0107	Modeling and Simulation of Soft Matter I
CPP 3.1–3.11	Mon	9:30–12:45	H 0110	Crystallization, Nucleation and Self-Assembly I
CPP 4.1–4.12	Mon	9:30–12:45	H 0111	Interfaces and Thin Films
CPP 5.1–5.12	Mon	9:30–12:45	H 1028	Active Matter I (joint session BP/CPP/DY)
CPP 6.1–6.5	Mon	11:30–13:00	H 0106	Composites and Functional Polymer Hybrids I
CPP 7.1–7.4	Mon	15:00–16:00	H 0106	Composites and Functional Polymer Hybrids II
CPP 8.1–8.4	Mon	15:00–16:00	H 0107	Polymer and Molecular Dynamics, Friction and Rheology
CPP 9.1–9.8	Mon	15:00–17:15	H 2032	Crystallization, Nucleation and Self-Assembly II
CPP 10.1–10.4	Mon	15:00–16:00	H 0111	Electrical, Dielectrical and Optical Properties of Thin Films
CPP 11.1–11.12	Mon	15:00–18:30	BH-N 243	Active Fluids and Microswimmers (joint session DY/BP/CPP)
CPP 12.1–12.5	Mon	16:15–17:30	H 0106	Molecular Electronics and Excited State Properties I
CPP 13.1–13.5	Mon	16:15–17:45	H 0107	Glasses and Glass Transition (joint session CPP/DY)
CPP 14.1–14.6	Mon	16:15–17:45	H 0111	2D Materials
CPP 15.1–15.45	Mon	18:00–20:00	Poster C	Poster I
CPP 16.1–16.12	Tue	9:30–13:00	H 0106	Modeling and Simulation of Soft Matter II
CPP 17.1–17.12	Tue	9:30–13:00	H 0107	Charged Soft Matter, Polyelectrolytes and Ionic Liquids I
CPP 18.1–18.12	Tue	9:30–13:00	H 0110	Organic Electronics and Photovoltaics I
CPP 19.1–19.12	Tue	9:30–12:45	H 0111	Energy Storage and Batteries II
CPP 20.1–20.13	Tue	9:30–13:00	H 1028	Active Matter II (joint session BP/CPP/DY)
CPP 21.1–21.42	Tue	18:00–20:00	Poster E	Poster II
CPP 22.1–22.6	Wed	9:30–11:15	H 0106	Gels, Polymer Networks and Elastomers I
CPP 23.1–23.7	Wed	9:30–11:15	H 0107	Modeling and Simulation of Soft Matter III
CPP 24.1–24.6	Wed	9:30–11:15	H 0110	Responsive and Adaptive Systems I
CPP 25.1–25.6	Wed	9:30–11:00	H 0111	Molecular Electronics and Excited State Properties II
CPP 26.1–26.12	Wed	9:30–13:00	H 1028	Biomaterials and Biopolymers (joint session BP/CPP)
CPP 27.1–27.12	Wed	9:30–13:00	BH-N 334	Active Matter III (joint session DY/BP/CPP)
CPP 28.1–28.56	Wed	11:30–13:30	Poster C	Poster III
CPP 29.1–29.5	Wed	15:00–16:15	H 0106	Gels, Polymer Networks and Elastomers II
CPP 30.1–30.11	Wed	15:00–18:00	H 0107	Charged Soft Matter, Polyelectrolytes and Ionic Liquids II

CPP 31.1–31.10	Wed	15:00–17:45	H 0110	Organic Electronics and Photovoltaics II Focus Session: Novel Approaches to Surface Plasmon Generated Charges and Heat for Photocatalysis I (joint session O/CPP)
CPP 32.1–32.8	Wed	15:00–17:30	MA 141	
CPP 33.1–33.6	Wed	16:30–18:00	H 0106	Hybrid and Perovskite Photovoltaics I Emerging Topics in Chemical and Polymer Physics, New Instruments and Methods I
CPP 34.1–34.12	Thu	9:30–13:00	H 0106	
CPP 35.1–35.5	Thu	9:30–11:00	H 0107	Focus Session: Wetting on Adaptive Substrates I (joint session CPP/DY/O)
CPP 36.1–36.12	Thu	9:30–13:00	H 0110	Organic Electronics and Photovoltaics III Biopolymers, Biomaterials and Bioinspired Functional Materials (joint session CPP/BP)
CPP 37.1–37.12	Thu	9:30–13:00	H 0111	
CPP 38.1–38.11	Thu	9:30–13:00	BH-N 334	Active Matter IV (joint session DY/BP/CPP) Focus Session: Ultrafast Processes in Organic Semiconductors and Perovskites I (joint session O/CPP)
CPP 39.1–39.8	Thu	10:30–13:00	MA 004	
CPP 40.1–40.10	Thu	10:30–13:15	MA 141	Focus Session: Novel Approaches to Surface Plasmon Generated Charges and Heat for Photocatalysis II (joint session O/CPP)
CPP 41.1–41.5	Thu	11:30–13:00	H 0107	Focus Session: Wetting on Adaptive Substrates II (joint session CPP/DY/O)
CPP 42.1–42.7	Thu	15:00–16:45	H 0106	Gels, Polymer Networks and Elastomers III Wetting, Fluidics and Liquids at Interfaces and Surfaces (joint session CPP/DY)
CPP 43.1–43.8	Thu	15:00–17:30	H 0107	
CPP 44.1–44.8	Thu	15:00–17:45	H 0110	Complex Fluids, Colloids, Micelles and Vesicles (joint session CPP/DY)
CPP 45.1–45.6	Thu	15:00–16:30	H 0111	Modeling and Simulation of Soft Matter IV Focus Session: Ultrafast Processes in Organic Semiconductors and Perovskites II (joint session O/CPP)
CPP 46.1–46.11	Thu	15:00–18:00	MA 004	
CPP 47.1–47.10	Thu	15:00–17:45	BH-N 334	Wetting, Droplets, and Microfluidics (joint session DY/CPP)
CPP 48	Thu	18:00–19:00	H 0110	Members' Assembly
CPP 49.1–49.5	Fri	9:30–10:45	H 0107	Organic Electronics and Photovoltaics IV Focus Session: Wetting on Adaptive Substrates III (joint session CPP/DY/O)
CPP 50.1–50.10	Fri	9:30–12:45	H 0110	
CPP 51.1–51.10	Fri	9:30–12:15	BH-N 243	Complex Fluids and Soft Matter (joint session DY/CPP) Focus Session: Ultrafast Processes in Organic Semiconductors and Perovskites III (joint session O/CPP)
CPP 52.1–52.5	Fri	10:30–11:45	MA 004	
CPP 53.1–53.5	Fri	11:30–13:00	H 0107	Responsive and Adaptive Systems II
CPP 54.1–54.1	Fri	13:15–14:00	H 0104	Closing Talk (joint session BP/CPP/DY)

Members' Assembly of the Chemical and Polymer Physics Division

Thursday 18:00–19:00 H 0110

- Report of the current Speaker team
- Election of the second deputy speaker
- Award of the poster Prize of the CPP Division
- Miscellaneous