

**Physical Chemistry [PC]
Morning Session – B6.103**

Chair: Natalie Banerji, University of Bern



Session Endowment: Mettler Toledo

- 10:45 **Mechanism and dynamics of fatty acid photodecarboxylase [PC-011]**
Ilme Schlichting, Max Planck Institute for Medical Research, Heidelberg
- 11:15 **The conservation of protein dynamics on an evolutionary timescale of nearly a billion years [PC-013]**
Philipp Heckmeier, University of Zurich
J. Ruf, C. Rochereau, P. J. Heckmeier, P. Hamm
- 11:30 **Fast Viral Dynamics Revealed by Microsecond Time-Resolved Cryo-EM [PC-014]**
Leonidas Syntrivanis, University of Basel
T. Klucznik, W. Beker, B. A. Grzybowski, M. D. Burke, K. Tiefenbacher
- 11:45 **ATP Synthesis in Giant Unilamellar Vesicles Formed by Double-Emulsion Microfluidics [PC-015]**
Olivia Eggenberger, University of Basel
R. Cochereau, P. Müller, J. Coats, R. P. Wehr, C. von Ballmoos, C. G. Palivan
- 12:00 **Two-level ordering in nano-rattles for optical properties [PC-016]**
Antoine Scalabre, University of Fribourg
K. M. Fromm
- 12:15 **Ultra-narrow room-temperature emission from single CsPbBr₃ perovskite quantum dots [PC-017]**
Alena Budinská, ETH Zurich
H. Wennemers

Afternoon Session – B6.103

Chair: Malte Opermann, University of Basel

- 14:30 **Environmental aspects and sustainability in the Chemical/Analytical and Biological/Life Science Laboratory [PC-021]**
Christoph Jansen, Mettler Toledo, Switzerland
- 15:00 **Using *in-situ* Terahertz Spectroscopy to investigate Charge Transport in In-plane Oriented Organic Mixed Ionic-Electronic Conductors [PC-023]**
Isabelle Holzer, University of Bern
D. Tsokkou, S. Guchait, B. Jismy, M. Brinkmann, N. Leclerc, N. Banerji
- 15:15 **Symmetry Breaking Charge Separation in a PDI-Based Molecular Cage [PC-024]**
Estefanía Sucre-Rosales, University of Geneva
E. Vauthey, T. Šolomek
- 15:30 **Calculation of accurate tunneling splittings [PC-025]**
Joseph Lawrence, ETH Zurich
J. Dusek, J. O. Richardson
- 15:45 **Rovibrational and Hyperfine Structure of the Molecular Hydrogen Ion from Spectroscopy of Rydberg-Stark Manifolds [PC-026]**
Ioana Doran, ETH Zurich
M. Beyer, N. Hölsch, F. Merkt
- 16:00 **Quantum-logic control of complex molecular ions for applications in molecular and chemical physics [PC-027]**
Perna Paliwal, University of Basel
M. Popov, S. Willitsch

**Polymers, Colloids &
Interfaces [PCI]
Morning Session – B6.104**

Chair: Bastian Brand, ZHAW



Session Endowment: Sika

- 10:45 **3D Printing of Living Structural Biocomposites [PCI-011]**
Matteo Hirsch, EPFL Lausanne
L. Lucherini, R. Zhao, A. Clarà Saracho, E. Amstad
- 11:15 **Porous Organic Polymers for Advanced Gas Separation Applications [PCI-013]**
Timur Ashirov, University of Fribourg
K. S. Song, A. Coskun
- 11:30 **Insights into the Dynamics of Supramolecular Materials from Semicrystalline Polyesters by Solid State NMR [PCI-014]**
Sophia Thiele, EPFL Lausanne
L. Piveteau, H. Frauenrath
- 11:45 **Developing Non-Native Cascade Reactions by Means of Catalytic Nanocompartments [PCI-015]**
Viviana Maffei, University of Basel
C. Schoenenberger, C. Palivan
- 12:00 **Comparison of the Protective Effect of Surfactants on Antibody Stability Against Different Interfaces [PCI-016]**
Dominik Zürcher, ETH Zurich
S. Caduff, L. Aurand, U. Capasso Palmiero, K. Wuchner, P. Arosio
- 12:15 **Unraveling the electrochemical doping in semiconducting polymers [PCI-017]**
Priscila Cavassin, University of Bern
I. Holzer, D. Tsokkou, O. Bardagot, J. Rehault, N. Banerji

Afternoon Session – B6.104

Chair: Daniel Görl, EPF Lausanne

- 14:30 **The Future of Polyurethane Adhesives [PCI-021]**
Sven Reimann, Sika Technology AG
- 15:00 **Block Copolymer Photonic Pigments for Optical Materials [PCI-023]**
Andrea Doderò, University of Fribourg
N. Schwarz, G. Bravetti, A. Escher, C. Weder, U. Steiner
- 15:15 **Structural Diversity in Superfluorescent Multicomponent Nanocrystal Superlattices comprising lead Halide Perovskite Nanocrystals [PCI-024]**
Ihor Cherniukh, ETH Zurich
G. Rainò, T. V. Sekh, C. Zhu, T. Stöferle, R. F. Mahrt, R. Erni, M. I. Bodnarchuk, M. V. Kovalenko
- 15:30 **Low-Temperature Chemical Recycling of Poly-methacrylates Synthesized by RAFT Polymerization [PCI-025]**
Hyun Suk Wang, ETH Zurich
N. P. Truong, Z. Pei, M. L. Coote, A. Anastasaki
- 15:45 **Precision Synthesis of Various Low-Bandgap Donor-Acceptor Alternating Conjugated Polymers via Living Suzuki-Miyaura Catalyst-Transfer Polymerization [PCI-026]**
Hwangseok Kim, ETH Zurich
- 16:00 **Restricting the Shape-Assisted Self-Assembly of Carpyridines to One Dimension [PCI-027]**
Lucía Gallego, University of Zurich
J. F. Woods, R. Butti, P. Szwedziak, A. Vargas Jentsch, M. Rickhaus