

PLENARY SESSIONS

Award Lectures (plenary)

Lecture hall CE 6

Chairs: Prof. Christian Bochet,
Dr. Alain De Mesmaeker



Sandmeyer Award Lecture 2018

«A new generation of agrochemicals: design, synthesis and biological evaluation of strigolactone- and strigolactam derivatives for potential crop enhancement applications in modern agriculture»

September 7, 2018, 09.50–10.20h

Dr. Raymonde Fonné-Pfistera, Dr. Alain De Mesmaeker, Dr. Claudio Screpanti, Syngenta Crop Protection AG and Dr. Harro Bouwmeester, University of Amsterdam, are awarded for their pioneering work on Strigolactones that can be considered a collaboration masterpiece between Industry and Academia to explore novel area of this phytohormonal family.



SISF-SCS Distinguished Investigator Award Lecture 2018

«Synthesis and Characterisation of Some Metabolites of Anti-Leukemia Drugs»

September 7, 2018, 10.20–10.50h

Dr. Paul W. Manley, Novartis Pharmaceuticals AG, Basel, is awarded for his impressive track record of success as a medicinal chemist, including 31 years in Basel at Sandoz/Novartis, working in several disease areas and on multiple classes of drug targets, including the invention of the commercial antileukemia drug Nilotinib.



SISF-SCS Senior Industrial Investigator Award Lecture 2018

«Episodes from the Continuous Search for Solutions against Downy Mildew Diseases»

September 7, 2018, 17.00–17.30h

Dr. Clemens Lamberth, Syngenta Crop Protection AG, is awarded for his impressive track record of success in the field of fungicide research within Crop Protection, including the invention of the fungicide Mandipropamid (Revus®, Pergado®).



Paracelsus Award Lecture 2018

«Mass spectrometric exploration of the biochemical basis of living systems»

September 7, 2018, 17.30–18.15h

Prof. Ruedi Aebersold, ETH Zurich, is awarded for his exceptional and visionary contributions to the field of proteomics in general and to the fields of analytical chemistry, protein chemistry, and mass spectrometry specifically.



Abstract codes

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AS	Analytical Sciences
CE	Catalysis Sciences & Engineering
CC	Computational & Theoretical Chemistry
IC	Inorganic Chemistry
MC	Medicinal Chemistry & Chemical Biology
OC	Organic Chemistry
PC	Physical Chemistry
PI	Polymers Colloids & Interfaces
[XY-011]...[XY-017]	Morning session lectures
[XY-021]...[XY-027]	Afternoon session lectures
[XY-101]...[XY-199]	Posters

PARALLEL SESSIONS

Analytical Sciences [AS]

Lecture hall CE 5

Chair: Dr. Hanspeter Andres



Session Endowment: Mettler Toledo

- 11:00 **Quality by Design in pharmaceutical industry as trigger for production process improvement and its extension to the analytical method lifecycle [AS-011]**
Christoph Meyer, Novartis Pharma AG
O. Cervantes, L. Liesum, F. Erni
- 11:30 **Real time release and on-line analytics in the Pharma Industry: A reality check based on cases studies? [AS-013]**
Lorenz Liesum, Novartis Pharma AG
- 11:45 **Photon energy and time-dependent Raman study of aqueous organic compounds [AS-014]**
Andrea Sterzi, Empa
U. Schneider, E. Billeter, J. Terreni, D. Bleiner, A. Borgschulte
- 12:00 **Comparison of genotoxic potentials of current diesel and gasoline vehicle exhausts and impact of filters [AS-015]**
Maria Muñoz Fernandez, Empa
N. Heeb, R. Haag, K. Zeyer, J. Mohn, J. Czerwinski, P. Comte, D. Bleiner
- 12:15 **A Validation Study for Real-Time Diagnosis of Obstructive Sleep Apnoea by Analysis of Exhaled Breath Using Secondary Electrospray Ionization Mass Spectrometry [AS-016]**
Nora Nowak, ETH Zurich
A. Engler, D. Schneeberger, S. Thiel, T. Gaisl, M. T. Gugg, P. M.L. Sinues, A. Stöberl, R. Zenobi*, M. Kohler*
- 12:30 **Clumped N₂O isotopes by mid-IR laser spectroscopy [AS-017]**
Kristýna Kantnerová, Empa/ETH Zürich
B. Tuzson, L. Emmenegger, S. M. Bernasconi, J. Mohn*

Chair: Prof. Stefan Schürch

- 15:00 **Efficiently Automated UV/VIS Spectroscopy [AS-021]**
Hans-Joachim Muhr, Mettler-Toledo GmbH
B. Zucchetti, M. Crevatin
- 15:15 **Isolation and characterization of a spider venom protease responsible for maturing of neurotoxic peptide precursors [AS-022]**
Simon Langenegger, University of Bern
D. Koua, S. Schürch, M. Heller, W. Nentwig, L. Kuhn-Nentwig
- 15:30 **Combining Cryogenic Ion Mobility Spectrometry and Cryogenic Vibrational Spectroscopy for Use in Analytical Workflows [AS-023]**
Stephan Warnke, EPFL Lausanne
A. Ben Faleh, C. Masellis, V. Scutelnic, T. Rizzo*
- 15:45 **Innovative approaches for the quantitative analysis of laser-induced craters [AS-024]**
Valentine Grimaudo, University of Bern
P. Moreno-García, A. Cedeño López, A. Riedo, M. Tulej, P. Broekmann*, P. Wurz*
- 16:00 **Characterization of a Dielectric Barrier Discharge Ionization Source for Mass Spectrometry [AS-025]**
Luzia Gyr, ETH Zurich
J. Franzke, F. D. Klute, R. Zenobi
- 16:15 **Anion formation in MALDI depends on matrix and target plate material choice [AS-026]**
Guido Zeegers, ETH Zürich
R. Zenobi*

Catalysis Sciences & Engineering [CE]

Lecture hall CE 2

Chair: Prof. Kevin Sivula

CLARIANT

Session Endowment: Clariant International Ltd.

- 11:00 **Thermally Conductive Micro-structured Catalysts for Process Intensification [CE-011]**
Enrico Tronconi, Politecnico di Milano, Italy
G. Groppi, C. G. Visconti
- 11:30 **Evidence of radical chemistry in catalytic methane oxybromination [CE-013]**
Vladimir Paunović, ETH Zurich
P. Hemberger, A. Bodi, N. López, J. Pérez-Ramírez*
- 11:45 **Time-resolved XAS studies on ethylene oxidation over Cu-Pd-exchanged Y zeolite catalysts [CE-014]**
Jerick Imbao, ETH Zurich / Paul Scherrer Institut
M. Nachttegaal*, J. A. van Bokhoven*
- 12:00 **CO₂ to methanol mechanism investigation over Cu/ZnO based catalysts by *operando* time-resolved XAS and SSITKA-FTIR studies [CE-015]**
Maxim Zabilskiy, Paul Scherrer Institute
V. L. Sushkevich, M. Newton, D. Palagin, J. A. van Bokhoven
- 12:15 **The Role of Ni/Al₂O₃ Interfaces in Water-Gas Shift and Dry Reforming Elucidated by Multi-scale First Principles Modeling [CE-016]**
Lucas Foppa, ETH Zürich
T. Margossian, S. Kim, C. Müller, C. Copéret, K. Larmier, A. Comas-Vives
- 12:30 **Chemical Reactions by High-resolution Neutron Imaging [CE-017]**
Andreas Borgschulte, Empa
J. Terreni, P. Trtik, R. Delmelle, A. Heel

Chair: Prof. Oliver Kröcher

- 15:00 **Oxidative Dehydrogenation of Ethane over MoVNb-Ti-Oxide Catalysts: On the Way to a Commercial Process [CE-021]**
K. Wanninger, Clariant Produkte (Deutschland) GmbH
G. Mestl, D. Melzer, M. Sanchez-Sanchez, J. A. Lercher, Y. Zhu, N. D. Browning, M. Schubert, A. Meiswinkel
- 15:15 **Photocorrosion-resistant Sb₂Se₃ photocathodes with earth abundant MoS_x hydrogen evolution catalyst [CE-022]**
Rajiv Prabhakar, University of Zurich
W. Septina, S. Siol, R. Wick-Joliat, T. Moehl, D. Tilley
- 15:30 **In-Operando Potential Sensing at the Semiconductor-Liquid Junction: Exposing the Surface Energetics and Interfacial Kinetics during Photoelectrosynthetic Reactions [CE-023]**
Néstor Guijarro, EPFL Lausanne
Y. Liu, F. Le Formal, N. Guijarro*
- 15:45 **Hydrogen Storage – Towards the “Formic Acid Battery” [CE-024]**
Cornel Fink, EPFL Lausanne
G. Laurenczy*
- 16:00 **Highly selective mechanisms modulated by basicity in chalcogen-modified copper for the electroreduction of carbon dioxide toward formate [CE-025]**
Tatsuya Shinagawa, ETH Zurich
R. García-Muelas, F. Dattila, A. J. Martín, J. Pérez-Ramírez*, N. López*
- 16:15 **Carbohydrate stabilization extends the kinetic limits of chemical polysaccharide depolymerization [CE-026]**
Ydna Questell-Santiago, EPFL Lausanne
R. Zambrano-Valera, M. T. Amiri, J. Luterbacher
- 16:30 **Synergistic Anion-(π)_n-π Catalysis on Covalent NDI Foldamers [CE-027]**
Anna-Bea Bornhof, University of Geneva
A. Bauzá, A. Aster, M. Pupier, A. Frontera, E. Vauthey, N. Sakai, S. Matile*

Computational and Theoretical Chemistry [CC]**IBM Research**

Lecture hall CE 105

Chair: Prof. Clémence Corminboeuf

Session Endowment: IBM Research

- 11:00 **Can we predict how pharmaceuticals will crystallize? [CC-011]**
Sally Price, University College London
- 11:30 **«Many-Pair Expansion: A Systematically Improvable Scheme for Correcting DFT Errors», CC [CC-013]**
Piotr de Silva, Technical University of Denmark
- 12:00 **On the implementation, benchmark and application of Frozen Density Embedding Theory [CC-015]**
Alexander Zech, University of Geneva
N. Ricardi, S. Prager, A. Dreuw*, T. Wesolowski*
- 12:15 **Achieving a Favorable Trade-off between Accuracy and Computational Efficiency for Quantum Chemical Methods [CC-016]**
Tamara Husch, ETH Zürich
M. Reiher*
- 12:30 **Density Functional Embedding Theory: a Gaussian and Plane-waves Implementation for Periodic Systems [CC-017]**
Vladimir Rybkin, University of Zurich

Chair: Prof. Anatole von Lilienfeld

- 15:00 **An Update of IBM Research [CC-021]**
Teodoro Laino, IBM Research, Zurich
- 15:15 **Torsional potentials of oxalyl halides and their thio-carbonyl derivatives: Challenges for contemporary density functional approximations. [CC-022]**
Diana Tahchieva, University of Basel
D. Bakowies, R. Ramakrishnan, O. von Lilienfeld*
- 15:30 **Neural Network based Potential Energy Surfaces for Molecular Dynamics Simulations [CC-023]**
Oliver Unke, University of Basel
M. Meuwly*
- 15:45 **Real time TDDFT for absorption and Raman spectroscopy [CC-024]**
Johann Mattiat, University of Zurich
S. Luber*
- 16:00 **Poly(triazine imide): Promising two-dimensional nanoporous nanosheet for molecular sieving. [CC-025]**
Mohammad T. Vahdat, EPFL Lausanne
D. Campi, N. Marzari*, K. V. Agrawal*
- 16:15 **Conceptual Framework of Molecular Electronics [CC-026]**
Ganna Gryn'ova, EPFL Lausanne
C. Corminboeuf*
- 16:30 **Unravelling the chemical nature of anaerobic methane oxidation: a two-electron redox process facilitated by water [CC-027]**
Dennis Palagin, Paul Scherrer Institute
V. L. Sushkevich, J. A. van Bokhoven, D. Palagin*

Inorganic & Coordination Chemistry [IC]

Lecture hall CE 6

Chair: Prof. Kay Severin



Session Endowment: Janssen

- 11:00 **From High-Valent Iron Nitrides to a Pentad of Low-Valent Iron Nitrosyls [IC-011]**
Karsten Meyer, Friedrich-Alexander-University Erlangen-Nürnberg
- 11:30 **Electrophoretic nuclei assembly: A versatile and reproducible crystallization chemistry for the synthesis of intergrown polycrystalline membranes [IC-013]**
Deepu Babu, EPFL Lausanne
G. He, K. V. Agrawal*
- 11:45 **NMR Chemical Shift Analysis Predicts Olefin Oligo- and Polymerization Activity of d⁰ Group 4 Metal Complexes. [IC-014]**
Christopher Gordon, ETH Zürich
S. Shirase, K. Yamamoto, R. A. Andersen, O. Eisenstein, C. Copéret*
- 12:00 **Carbene- rather than Nitrogen-metal bonding mode alters metallo-enzymes features [IC-015]**
Matteo Planchestainer, University of Bern
N. Ségaud, J. McMaster, F. Paradisi, M. Albrecht*
- 12:15 **Glucose conversion with metal-organic frameworks in water [IC-016]**
Olga Trukhina, EPFL Valais Wallis, Sion
V. Karve, M. Asgari, P. Dapsens, W. L. Queen*
- 12:30 **Designing ultra-stable and highly crystalline two-dimensional organic networks based on calixarenes [IC-017]**
Mina Moradi, FHNW, PSI
T. A. Jung*, P. Shahgaldian*

Chair: Prof. Bruno Therrien

- 15:00 **Insights on the Pd(OAc)₂/XPhos Catalytic System [IC-021]**
S. Wagschal, Janssen R&D / Cilag AG
L. A. Perego, A. Franco-Espejo, C. Tocqueville, J. Albaneze-Walker, A. Jutand, L. Grimaud
- 15:15 **Photoinduced Long-range Electron Transfer Across ortho-oligo-Phenylenes [IC-022]**
Sabine Malzkuhn, University of Basel
O. S. Wenger
- 15:30 **Porous Molecular Networks from Dative B-N Bonds [IC-023]**
Alexander Stephens, EPFL Lausanne
R. Scopelliti, F. T. Fadaei, E. Solari, K. Severin*
- 15:45 **Au₂₅(SR)₁₈ cluster assembly in multiple dimensions [IC-024]**
Annelies Sels, University of Geneva
G. Salassa, L. Lee, F. Cousin, T. Bürgi*
- 16:00 **Guanidinium-formamidinium lead iodide: a layered perovskite-related compound with red luminescence at room temperature [IC-025]**
Olga Nazarenko, ETH Zurich
M. R. Kotyrba, S. Yakunin, M. Aebli, G. Rainò, B. M. Benin, M. Wörle, M. V. Kovalenko*
- 16:15 **Derivatisation of [Re(η⁶-C₆H₅COOH)₂]⁺ Complexes for DNA-targeting [IC-026]**
Carla Gotzmann, University of Zurich
R. Alberto*
- 16:30 **Small Molecule Activation at Multimetallic Uranium Nitrides [IC-027]**
Marta Falcone, EPFL Lausanne
M. Mazzanti*

Medicinal Chemistry & Chemical Biology [MC]

Lecture hall CE 3

Chair: Prof. Jean-Louis Reymond



Session Endowment: Idorsia Pharmaceuticals Ltd

- 11:00 **DMCCB Annual Report and Information [MC-011]**
Jean Reymond, Swiss Chemical Society
- 11:15 **Cannabinoid receptor 2 antagonists - challenges on the way towards clinics [MC-012]**
Uwe Grether, F. Hoffmann-La Roche AG
- 11:30 **Peptide-Stabilized Platinum Nanoparticles Selectively Attack Liver Cancer Cells [MC-013]**
Michal Shoshan, ETH Zurich
H. Wennemers*
- 11:45 **Discovery of SPL-707: A Potent, Selective and Orally Bioavailable SPPL2a Inhibitor [MC-014]**
Juraj Velcicky, Novartis
T. Brandl, P. Rigollier, R. Epple, U. Bodendorf, D. Guerini, P. Smith, D. Beisner, B. Wen, J. Velcicky*
- 12:00 **Exploring the function of microtubule post-translational modifications by semi-synthetic tubulin [MC-015]**
Eduard Ebberink, EPFL Lausanne
N. Agashe, C. Janke, P. Gonczy, B. Fierz*
- 12:15 **Discovery of ADEPIDYN™ a new broad spectrum foliar fungicide [MC-016]**
Daniel Stierli, Syngenta Crop Protection AG
H. U. Haas, R. Rajan, H. Walter, J. Cassayre*
- 12:30 **Luciferase-induced photoreductive uncaging of small-molecule effectors [MC-017]**
Simona Angerani, University of Geneva
E. Linberg, M. Anzola, N. Winssinger*

Chair: Prof. Christian Heinis

- 15:00 **Lessons learned from the Neuropeptide S project at Idorsia [MC-021]**
Julien Pothier, Idorsia Pharmaceuticals Ltd.
- 15:15 **Development of radiotracers for non-invasive imaging of the co-stimulatory molecule CD80 by PET [MC-022]**
Marco Taddio, ETH Zurich
T. Bollmann, D. Schmid, A. Müller Herde, C. Keller, L. Mu, S. M. Ametamey, R. Schibli*, S. D. Krämer*
- 15:30 **Development of a Natural Product-Like DNA-Encoded Macrocyclic Library for Screening against Biologically Relevant Protein Targets [MC-023]**
Cedric Stress, University of Basel
D. Gillingham*
- 15:45 **Lanthanide-Loaded Dendrons as Antibody Labels for Mass Cytometry Applications [MC-024]**
Ludovico Tulli, Novartis Institutes for BioMedical Research
D. Miranda, C. C. Lee, Y. Sullivan, R. Grotzfeld, G. Hollingworth, R. Kneuer, L. G. Tulli*, A. S. Karpov*
- 16:00 **Site-specific two-color labeling of long RNAs for single-molecule FRET [MC-025]**
Fabio Steffen, University of Zurich
M. Zhao, R. Börner, M. F. Schaffer, R. K. Sigel*, E. Freisinger*
- 16:15 **RNA Therapeutics: a medicinal chemists perspective [MC-026]**
Konrad Bleicher, F. Hoffmann-La Roche AG
- 16:30 **Long-Term Nanoscopic Imaging of Vesicle Dynamics in Living Cells with a Pump-and-Blink Probe [MC-027]**
Elias Halabi, ETH Zürich
D. Pinotsi, P. Rivera-Fuentes*

Organic Chemistry [OC]

Lecture hall CE 1

Chair: Prof. Sandrine Gerber



Session Endowment: Syngenta Crop Protection AG

- 11:00 **Electrophilic Indole and Pyrrole Reagents for C-H Functionalization [OC-011]**
Paola Caramenti, EPFL Lausanne
S. Nicolai, N. Wu, J. Waser*
- 11:15 **Total Synthesis of the Antibiotic Disciformycin B [OC-012]**
Philipp Waser, ETH Zürich
K. Altmann*
- 11:30 **A Photochemical Amplifier Based on Self-Immolative Spacers [OC-013]**
Agonist Kastrati, University of Fribourg
C. Bochet*
- 11:45 **2-Substituted 1,3-Dienes as Platform for (Enantio) Selective Metal Catalysis [OC-014]**
Daniele Fiorito, University of Geneva
Y. Liu, S. Folliet, C. Mazet*
- 12:00 **Catalyst-Controlled Stereodivergent Synthesis of Atropisomeric Multiaxis Systems [OC-015]**
Alessandro Castrogiovanni, University of Basel
D. Lotter, C. Sparr*
- 12:15 **Pd(0)-Catalyzed Desymmetrizations Allow for Facile Synthesis of Chiral Isoindoles [OC-016]**
Daria Grosheva, EPFL Lausanne
N. Cramer*

- 12:30 **Praiquantel: an old product with new challenges! Performance Materials, Merck KGaA Darmstadt Germany [OC-017]**
Andreas Wächtler, Merck KGaA Darmstadt Germany
D. Maillard

Chair: Prof. Jieping Zhu

- 15:00 **The Solatenol Process Challenge How Manufacturing Restrictions Can Boost Creativity [OC-021]**
Renaud Beaudegnies, Syngenta Crop Protection AG
M. Baalouch
- 15:15 **Ligand-Controlled Selectivity in Palladium-Catalyzed Barbier-Negishi Couplings of Secondary Alkyl Bromides [OC-022]**
Ke-Feng ZHANG, University of Basel
O. Baudoin*
- 15:30 **Direct C-H Trifluoromethoxylation of Arenes Triggered by Visible Light Mediated Redox Fragmentation of Pyridinium Reagents [OC-023]**
Benson Jelier, ETH Zürich
P. F. Tripet, E. Pietrasiak, I. Franzoni, G. Jeschke, A. Togni
- 15:45 **Palladium-Catalyzed Synthesis of Ketenimines with Isocyanides [OC-024]**
Mathias Mamboury, EPFL Lausanne
G. Qiu, Q. Wang, J. Zhu*
- 16:00 **Synthesis of Fluorescent Nucleoside Analogues [OC-025]**
Aaron Johnson, University of Zurich
N. W. Luedtke*
- 16:15 **Influence of the *trans/cis* Conformer Ratio on the Stereoselectivity of Peptidic Catalysts [OC-026]**
Tobias Schnitzer, ETH Zurich
H. Wennemers*
- 16:30 **Synthesis and Reactivity of Vinyl Triazenes [OC-027]**
Abdusalom Suleymanov, EPFL Lausanne
K. Severin*

Physical Chemistry [PC]

Lecture hall CE 4

Chair: Prof. Stefan Willitsch

No session endowment

- 11:00 **Cold Chemistry in Merged Neutral Beams [PC-011]**
Andreas Osterwalder, EPFL Lausanne
- 11:30 **Faster than Diffusion? Surface Effects on the Electron Transfer Quenching of Re(I) Carbonyls on Metal Oxide Surfaces [PC-013]**
Kerstin Oppelt, University of Zurich
R. J. Fernández-Terán, R. Pfister, P. Hamm*
- 11:45 **Exciton dynamics in DNA oligomers studied by broadband deep-UV transient absorption spectroscopy [PC-014]**
Benjamin Bauer, EPFL Lausanne
M. Oppermann, F. van Mourik, M. Chergui*
- 12:00 **Shedding new light on complex porous materials with positron spectroscopy [PC-015]**
Sharon Mitchell, ETH Zurich
B. Puértolas, L. Gerchow, P. Crivelli, J. Pérez-Ramírez*
- 12:15 **Formation of molecular oxygen in astrochemical conditions [PC-016]**
Marco Pezzella, University of Basel
M. Meuwly*

- 12:30 **Manipulation of molecular hydrogen on a chip to study quantum effects in chemical reactions at low temperature [PC-017]**
Katharina Höveler, ETH Zürich
J. Deiglmayr, P. Allmendinger, H. Schmutz, J. A. Agner, F. Merkt*

Chair: Prof. Jacques E. Moser

- 15:00 **Conquest of the high DOS problem – spectroscopy on the individual quantum state [PC-021]**
Martin Beck, Paul Scherrer Institute
P. Bornhauser, B. Visser, G. Knopp, J. A. van Bokhoven, P. P. Radi*
- 15:15 **Orthogonal Spin Labelling Approaches for the Study of Protein Oligomerisation by Pulsed Electron Paramagnetic Resonance [PC-022]**
Irina Ritsch, ETH Zurich
M. Yulikov, E. Lehmann, F. Allain, G. Jeschke*
- 15:30 **THz Science in Polymer: Fullerene Blends for Organic Photovoltaics [PC-023]**
Philipp Krauspe, University of Bern
D. Tsokkou, M. Causa*, J. Réhault, N. Banerji*
- 15:45 **Processes in supercritical water observed by *in situ* electron microscopy [PC-024]**
Diana Nechepurenko, EPFL
M. Winghart, P. Olshin, T. Buriakova, U. Lorenz*
- 16:00 **Time-resolving molecular chirality in the gas phase [PC-025]**
Vít Svoboda, ETH Zurich
N. B. Ram, S. Manov, J. Stohner, H. J. Wörner*
- 16:15 **Pump-Pump-Probe spectroscopy to study ion pair dynamics [PC-026]**
Joseph Beckwith, University of Geneva
L. Mohammadzadeh, E. Vauthey*
- 16:30 **The structure of protonated serine octamer [PC-027]**
Valeriu Scutelnic, EPFL Lausanne
M. Perez, U. Röthlisberger, T. Rizzo*

Polymers, Colloids & Interfaces [PI]

Lecture hall BS 160

Chair: Prof. Nico Bruns



Session Endowment: Dow Europe GmbH

- 11:00 **Soft Sensitive Matter: Structure, Dynamics, and Function of Supramolecular Polymer Gels [PI-011]**
Sebastian Seiffert, Johannes-Gutenberg University Mainz, Germany
- 11:30 **Dynamics and Welding Behavior of Metallo-supramolecular Polymer Films [PI-013]**
Laura Neumann, Adolphe Merkle Institute / University of Fribourg
E. Oveisi, S. Schrettl, C. Weder

- 11:45 **Colloidal shuttles for programmable cargo delivery [PI-014]**
Ahmet Demiroers, ETH Zurich
F. Eichenseicher, M. J. Loessner, A. Studart*, J. Leroux*
- 12:00 **Colloidal CsPbX₃ (X=Cl, Br, I) Nanocrystals 2.0: Zwitterionic Ligands for Improved Durability and Stability [PI-015]**
Franziska Krieg, ETH Zürich
M. V. Kovalenko*
- 12:15 **Decoding the folded chains and nanostructures inside electrospun nanofibers by SAXS and WAXS [PI-016]**
Anjani Maurya, Empa
A. Sadeghpour, L. Weidenbacher, F. Spano, G. Fortunato, R. Rossi, M. Frenz, A. Dommann, A. Neels*
- 12:30 **Radical Ring-Opening Polymerisation for Biodegradable Nanoparticles and Temporary Enzyme Protection [PI-017]**
Jens Gaitzsch, University of Basel
P. C. Welsch, C. Schönenberger, J. C. Anderson, W. Meier

Chair: Prof. Esther Amstad

- 15:00 **New packaging technologies and industrial perspectives from a material science company [PI-021]**
Elodie Hablot, Dow Europe GmbH
- 15:15 **Confinement-Induced Liquid Crystalline Transitions in Amyloid Fibril Cholesteric Tactoids [PI-022]**
Mario Arcari, ETH Zurich
G. Nyström, R. Mezzenga*
- 15:30 **Self-Assembly of Janus Nanoparticles into Suprastructures [PI-023]**
Andrei Honciuc, Zurich University of Applied Sciences
C. Kang
- 15:45 **Ion speciation at nanoscale hydrophobic/water interface is diverse, occurs at millimolar concentrations and is correlated with stability [PI-024]**
Evangelia Zdrali, EPFL Lausanne
M. Baer, H. I. Okur, C. Mundy, S. Roke, S. Roke*
- 16:00 **Novel Single-layer graphene/polymer composite membrane that meets the postcombustion carbon capture target [PI-025]**
Guangwei He, EPFL Lausanne
K. V. Agrawal*
- 16:15 **Bio-inspired Force-responsive Polymersomes [PI-026]**
Omar Rifaie-Graham, University of Fribourg
E. A. Apebende, N. Bruns*
- 16:30 **Reverse Engineering of Simple Life Forms in Fully Synthetic Hydrogel Microsystems [PI-027]**
Raquel Parreira, EPFL Lausanne
L. Pancaldi-Giubbini, M. S. Sakar*

POSTER SESSIONS

Poster Presentation Title [Code]

Fist line = Presenting Author, Affiliation

Second line = Co-authors

* Research Head(s)

Analytical Sciences [AS] Poster Session

NMR Studies of Hierarchical Protein Dynamics [AS-101]

Busi Baptiste, EPFL Lausanne

A. Hofstetter, A. Hofstetter, L. Emsley*

Characterization of Biomimetic Phospholipid Membranes with Atomic Force Microscopy (AFM) and Tip-Enhanced Raman Spectroscopy (TERS) [AS-102]

Giovanni Bartolomeo, ETH Zurich

A. K. Sachan, G. Goubert, R. Zenobi*

Enhanced Sensitivity of GC-FT (Orbitrap) – MS Enabling Trace-Level Persistent Organic Pollutant Analysis [AS-104]

Davide Bleiner, Empa

M. Zennegg

Transgenerational Fate Modeling of Polychlorinated Biphenyls in Cattle [AS-105]

Charlotte Driesen, Empa

C. Bogdal, B. Nowack, M. Scheringer, H. D. Hess, M. Zennegg

Targeted on-line breath analysis supports altered collagen metabolism in idiopathic pulmonary fibrosis [AS-106]

Martin Gaugg, ETH Zurich

A. Engler, P. M.L. Sinues, L. Bregy, Y. Nussbaumer-Ochsner, L. Eiffert, T. Bruderer, M. Kohler*, R. Zenobi*

Enhanced extraction of small molecule-drug conjugate targeting carbonic anhydrase in cancer chemotherapy by automated SPME coupled to ESI-MS [AS-107]

Sahar Ghiasikhou, ETH Zurich

J. Scheuermann, S. Cazzamalli, D. Neri, R. Zenobi*

Insights into the challenges regarding the quantification of geological silicate samples by LA-ICPMS [AS-108]

Debora Käser, ETH Zurich

C. Neff, S. Müller, D. Garbe-Schönberg, J. Koch, D. Günther*

A Versatile Software for Control of Advanced Laser Ablation ICP-MS Element Imaging [AS-109]

Peter Keresztes Schmidt, ETH Zurich

G. Schwarz, B. Hattendorf, D. Günther

Insights into the rare earth element pattern of Jade objects for provenancing [AS-110]

Stefan Kradolfer, ETH Zurich

S. van Willigen, P. Pétrequin, J. Koch, B. Hattendorf, D. Günther*

Investigations on cation-adduct formation in MALDI mass spectrometry [AS-111]

Jonas Metternich, ETH Zurich

M. F. Czár, M. F. Mirabelli, R. Zenobi*

Artificial impregnation for modelling waterlogged wood contaminated with iron sulfides [AS-112]

Mathilde Monachon, University of Neuchâtel

M. Albelda Berenguer, C. Pelé, E. Guilminot, E. Joseph

Identification of biomarkers from pathogens of patients with cystic fibrosis via secondary electrospray ionization-mass spectrometry [AS-113]

Simona Mueller, ETH Zurich

T. Bruderer, A. Baghdasaryan, R. Weber, N. Haas-Baumann, S. Micic, C. Berger, A. Moeller*, R. Zenobi*

Transformation of chloroparaffins to chloroolefins during metal drilling [AS-114]

Lena Schinkel, Empa/ETH Zürich

M. Knobloch, C. Bogdal, P. Lienemann, K. McNeill, N. Heeb

Characterization of gold nanoparticles using inductively coupled plasma mass spectrometry (ICPMS) [AS-115]

Jovana Teofilovic, ETH Zürich

B. Hattendorf, D. Günther*

Understanding electrospray ionization mechanisms of biomolecules using laser-induced fluorescence [AS-116]

Prince Tiwari, ETH Zurich

M. F. Czár, R. Zenobi

Space resolved laser microanalysis of Potassium & Iodine in Laccase-catalysed woods [AS-117]

Matthias Trottmann, Empa

A. Wichser, M. Arnold, D. Bleiner, D. Bleiner*

Microdroplet-assisted conveyance of Single Cells for time-resolved Analysis by ICP-TOFMS [AS-118]

Thomas Vonderach, ETH Zurich

M. Wolf, D. Günther*

The study of non-covalent interactions between G protein-coupled receptors and their partners by MALDI mass spectroscopy [AS-119]

Na Wu, ETH Zurich

Xeno Nucleic Acid Nanosensors for Enhanced Stability [AS-120]

Alice Gillen, EPFL Lausanne

J. Kupis-Rozmysłowicz, C. Gigli, N. Schürgers, A. A. Boghossian*

Characterization of Double-stranded DNA on Single-walled Carbon Nanotubes (SWCNTs) [AS-121]

Shang-Jung Wu, EPFL Lausanne

N. Schürgers, K. Lin, A. J. Gillen, C. Corminboeuf*, A. A. Boghossian*

Mediatorless, Reversible Optical Nanosensor Enabled through Enzymatic Pocket Doping [AS-122]

Vitalijs Zubkovs, EPFL Lausanne

N. Schürgers, B. Lambert, E. Ahunbay, A. A. Boghossian*

A Multi-Detector Set-Up Comprising of UV/Vis Detection, Charged Aerosol Detection and Single Quadrupole Mass Spectrometric Detection for Comprehensive Quantitative Sample Analysis [AS-123]

Stephan Meding, Thermo Fisher Scientific

K. Lovejoy, M. Samonig, F. Hoefler, R. Swart, F. Steiner, M. Ruehl

Catalysis Sciences & Engineering [CE] Poster Session

Novel approaches for the biosynthesis of tailor-made polyhydroxyalkanoates [CE-101]

Camila Utsunomia, HES-SO Valais

N. Hanik, M. Zinn*

Selective ensembles in supported palladium sulfide nanoparticles for alkyne semi-hydrogenation [CE-102]

Davide Albani, ETH Zurich

M. Shahrokhi, Z. Chen, S. Mitchell, N. López, J. Pérez-Ramírez*

K10 montmorillonite clay as an environmentally friendly catalyst for methanol dehydration reaction [CE-103]

Ali Bahmanpour, EPFL Lausanne

F. Héroguel, C. Baranowski, J. Luterbacher, O. Kröcher*

Etched Nickel Foam as Highly Efficient Catalyst for Overall Water Splitting [CE-104]

S. Balaghi, University of Zurich
G. R. Patzke*

Investigation of the catalytic performance of tin-montmorillonite clay for the synthesis of polyoxymethylene dimethyl ethers (OME) [CE-105]

Christophe Baranowski, EPFL
A. Bahmanpour, O. Kröcher*

Ammonia Synthesis and catalyst poisoning: understanding the catalyst activity to improve the process [CE-106]

Pierdomenico Biasi, CASALE SA
J. D'Alessandri, C. Zele, A. Garbujo

Multi-Scale Characterization and Porous Network Efficiency Analysis on VPO Catalytic Bodies [CE-107]

Leonid Bloch, ETH Zürich
J. C. da Silva, J. A. van Bokhoven*

Electrocatalytic CO₂ Reduction on Stable Cu@CuPd Core-shell Nanowires [CE-108]

Aline Bornet, University of Bern
Y. Hou, R. Erni, R. Widmer, P. Broekmann*, R. Fasel*

Bulk and surface properties of Sr₂TaO₃N by density functional theory [CE-109]

Maria Bouri, University of Bern
U. Aschauer*

Design of nitrogen-doped carbon hosts for single-atom catalysts [CE-110]

Simon Büchele, ETH Zürich
Z. Chen, S. Mitchell, J. Pérez-Ramírez*

Selective Depolymerization of Lignin over Rh@HCS in Methanol [CE-111]

Lu Chen, EPFL Lausanne
A. P. van Muyden, P. J. Dyson, G. Laurency*

Stabilization of Pd_n catalysts (n = 1–3) on carbon nitride and nuclearity dependence in hydrogenations and C-C couplings [CE-112]

Zupeng Chen, ETH Zurich
E. Vorobyeva, S. Mitchell, E. Fako, G. Vilé, S. M. Collins, P. A. Midgeley, O. V. Safonova, N. López, J. Pérez-Ramírez*

Design of solid bases for the sustainable synthesis of a vitamin A intermediate [CE-113]

Ferdy Coumans, ETH Zurich
S. Mitchell, J. Schütz, J. Medlock, J. Pérez-Ramírez*

Slowing the Kinetics of Alumina Sol-gel Chemistry for Controlled Catalyst Overcoating and Improved Catalyst Stability and Selectivity [CE-114]

Yuan-Peng Du, EPFL Lausanne
F. Héroguel, J. Luterbacher*

Beyond Copper in CO₂ Electrolysis: Effective Hydrocarbon Production on Silver Nano-Foam Catalysts [CE-115]

Abhijit Dutta*, University of Bern
C. Morstein, M. Rahaman, A. López, A. Dutta*, P. Broekmann*

A Viable Hydrogen-Storage System: Towards the "Formic Acid Battery" [CE-116]

Cornel Fink, EPFL Lausanne
G. Laurency*

Pd nanoparticles solid-liquid interface study during liquid phase selective hydrogenation by combined XAS and ATR-IR [CE-117]

Thibault Fovanna, Paul Scherrer Institut
M. Nachtegaal, O. Kröcher, D. Ferri

High Performance Electrochemical Water Oxidation Using Manganese Oxide-Based Electrodes [CE-119]

Sima Heidari, University of Zurich
G. R. Patzke*

Ionic Liquid Catalysts and the N-Formylation of Amines with CO₂; Scope, Reactivity, Mechanism and the Chemical Equilibria Involved [CE-120]

Martin Hulla, EPFL
F. Bobbink, S. M. Chamam, P. J. Dyson*, G. Laurency*

Controlling the speciation and reactivity of carbon-supported gold nanostructures in catalyzed acetylene hydrochlorination [CE-121]

Selina Kaiser, D-CHAB, ETH Zurich
R. Lin, S. Mitchell, E. Fako, J. Pérez-Ramírez*

Unprecedented methane to methanol conversion on Cu-zeolites: Copper concentration dependent activity in zeolite omega [CE-122]

Amy Knorpp, ETH Zürich
A. B. Pinar, M. Newton, V. L. Sushkevich, J. A. van Bokhoven*

Ruthenium catalyst for dry biomass derived CO methanation in the presence of sulfur poisons [CE-123]

Dzulija Kuzmenko, Paul Scherrer institute
C. Copéret, M. Nachtegaal, T. Schildhauer

Selective Methanol Synthesis by Zirconium Surface Sites in Silica-supported Cu Nanoparticles: Synthesis and Spectroscopy [CE-124]

Erwin Lam, ETH Zürich
K. Larmier, P. Wolf, S. Tada, O. V. Safonova, C. Copéret*

Cheap and upscalable process for atomic layer deposition on powder through stoichiometric grafting in solution [CE-125]

Benjamin Le Monnier, EPFL Lausanne
F. G. Wells, J. Luterbacher, J. Luterbacher*

σ-hole Interactions in Catalysis and Anion Transport [CE-126]

Lucia Lee, University of Geneva
S. Benz, S. Matile*

Understanding the functionality of molecular cocatalysts on hematite photoanode for water oxidation [CE-127]

Jingguo Li, University of Zurich
G. R. Patzke*

Pore Formation in ZSM-5 Zeolites, a Transmission Electron Microscopy Study [CE-128]

Teng Li, ETH Zurich
J. A. van Bokhoven*

Influence of Synthesis Parameter in Microwave-HT Preparation of Co₃O₄ for Water Oxidation Catalysis [CE-129]

Karla Lienau, University of Zurich
L. Reith, S. E. Balaghi, G. R. Patzke*

Uncovering the Interfacial Carrier Dynamics of CuInGaS₂ Photocathodes during Hydrogen Production [CE-130]

Yongpeng Liu, EPFL Lausanne
F. Le Formal, F. Boudoire, K. Sivula*, N. Guijarro*

CO₂ Hydrogenation to Formate with Immobilized Ru-Catalysts based on Hybrid Organo-Silica Mesostructured Materials [CE-131]

Hung-Kun Lo, ETH Zürich
C. Copéret*

Higher alcohols synthesis over carbon-supported and K-promoted copper-iron catalysts [CE-132]

Ho Luk, ETH Zurich

C. Mondelli, S. Mitchell, S. Siol, J. A. Stewart, D. Curulla Ferré, J. Pérez-Ramírez*

Miniaturized Continuous Stirred-tank Reactors – mini-CSTR, a New Process Tool for the Lab [CE-133]

Roger Marti, HEIA Fribourg

E. Vanoli, M. Kaehr

Selective oxidation of methane to methanol by isolated copper site(s) on oxide supports [CE-134]

Jordan Meyet, ETH Zürich

K. Searles, M. Newton, A. P. van Bavel, A. D. Horton, J. A. van Bokhoven*, C. Copéret*

Techno-economic assessment of a glycerol biorefinery [CE-135]

Cecilia Mondelli, ETH Zurich

G. M. Lari, G. Pastore, M. Haus, Y. Ding, S. D'Angelo, A. Dall'Ara, S. Papadokostantakis, J. Pérez-Ramírez*

Investigation of a possible Mars-van Krevelen mechanism of the aqueous ethanol oxidation [CE-136]

Sotiria Mostrou, ETH Zurich

A. Nagl, K. Föttinger, J. A. van Bokhoven*

Surface modified CeO₂ nanoparticles supported on electrospun nanofibers: an effective photocatalyst in the visible and the UV [CE-137]

Sara Mousavi, Zurich University of Applied Sciences ZHAW

M. Aliabadi, A. Haji, F. Deuber, C. Adlhart*, F. Shahraki*

Time-Resolved Spectroscopic Study of NH₃-SCR on Cu/SSZ-13 [CE-138]

Rob Jeremiah Nuguid, Paul Scherrer Institut

A. Marberger, A. Petrov, A. Clark, P. Steiger, M. Elsener, O. Kröcher, M. Nachttegaal, D. Ferri*

Development of Robust Photocathodes for Solar Induced CO₂ Reduction [CE-139]

Xavier Pereira Da Costa, EPFL Lausanne

F. Le Formal, N. Guijarro, K. Sivula*

Understanding lignin fast pyrolysis using model compounds [CE-140]

Allen Puente-Urbina, ETH Zurich

J. A. van Bokhoven*

Enhanced base-free formic acid production from CO₂ over Pd/g-C₃N₄ by tuning of the carrier defects [CE-141]

Begoña Puértolas, D-CHAB, ETH Zurich

M. Ackermann, Z. Chen, J. Pérez-Ramírez, C. Mondelli*

Zeolite-based heterogeneous catalysts for the selective oxidation of methane to methyl trifluoroacetate [CE-142]

Manoj Ravi, ETH Zurich

J. A. van Bokhoven*

Combining *in situ* powder XRD and *ex situ* quenching experiments to optimize cobalt spinel water oxidation catalysts [CE-143]

Lukas Reith, University of Zurich

K. Lienau, D. S. Cook, R. Morè, R. I. Walton, G. R. Patzke*

Development of Heterogeneous Catalysts for Alkane Dehydrogenation from Surface Organometallic Chemistry Principles [CE-144]

Lukas Rochlitz, ETH Zurich

K. Searles, C. Copéret*

Engineered Pd embedded N, S co-doped graphene wrapped magnetic core-shell nanospheres: as a highly stable catalyst for the Suzuki–Miyaura coupling reaction [CE-145]

Sahar Rohani, University of Geneva

G. Mohammadi Ziarani *

Deactivation mechanisms of ruthenium-based catalysts in the hydrodebromination of dibromomethane [CE-146]

Ali Saadun, ETH Zurich

V. Paunović, J. Pérez-Ramírez*

***In Vivo* Metathesis of Artificial Metalloenzymes: Progress Towards Non-Natural Metabolism [CE-147]**

Valerio Sabatino, University of Basel

T. Ward*

Unravelling metal-ligand combination effects for the hydrogenation of carbon dioxide using molecular volcano plots [CE-148]

Boodsarin Sawatlon, EPFL Lausanne

M. D. Wodrich, C. Corminboeuf*

Integrated Chemical Systems for the On-chip Synthesis of Compound Libraries [CE-150]

Dominik Scherrer, University of Basel

G. Puebla-Hellmann, M. Hellstern, M. Mayor, C. Sparr*, E. Lörtscher*

Effect of Active Sites Structure on Activity of Copper Mordenite in Aerobic and Anaerobic Conversion of Methane to Methanol [CE-151]

Vitaly Sushkevich, Paul Scherrer Institut

D. Palagin, J. A. van Bokhoven

Development of a microfluidics assay for the genetic evolution of artificial metalloenzymes [CE-152]

Jaicy Vallapurackal, University of Basel

F. Schwizer, T. Ward*

A Multi-Metallic Catalysts Screening Method Applied to the Hydrogenolysis of Diphenyl Ether Revealed a Highly Active Catalyst for the Valorization of Lignin [CE-153]

Antoine van Muyden, EPFL Lausanne

S. Siankevich, P. J. Dyson*

Metal/Metal Oxide Hybrid Nanocrystals As Electrocatalysts For CO₂ Reduction Reaction [CE-154]

Seyedeh Varandili, EPFL Lausanne

R. Buonsanti*

Choline-based systems for electrochemical reduction of carbon dioxide [CE-155]

Dmitry Vasilyev, EPFL Lausanne

A. V. Rudnev, P. Broekmann*, P. J. Dyson*

A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling [CE-156]

Evgeniya Vorobyeva, ETH Zurich

Z. Chen, S. Mitchell, E. Fako, M. A. Ortuño, N. López, G. Vilé, J. Pérez-Ramírez*

Selectivity control during the one-pot conversion of aliphatic carboxylic acids to linear olefins through tandem hydrogenation/dehydration [CE-157]

Jher Hau Yeap, EPFL Lausanne

B. Rozmysłowicz, J. Luterbacher*

Self-templated formation of Co_{3-x}Ni_xO₄ hollow spheres for enhanced electrocatalytic water oxidation [CE-158]

Yonggui Zhao, University of Zurich

G. R. Patzke*

Smart Hydrogenated Wrinkled Yolk@Shell Architecture of TiO₂ toward Powerful Visible Light Photocatalytic Application [CE-159]Abolfazl Ziarati, University of Geneva
A. Badiei***Mechanistic origin of the halogen-dependent selectivity switch in catalyzed alkane oxyhalogenation [CE-160]**Guido Zichittella, ETH Zurich
M. Scharfe, B. Puértolas, V. Paunović, P. Hemberger, A. Bodi, L. Szentmiklósi, N. López, J. Pérez-Ramírez***Computational and Theoretical Chemistry [CC]
Poster Session****Vibrational Density Matrix Renormalization Group [CC-101]**Alberto Baiardi, ETH Zürich
C. J. Stein, V. Barone, M. Reiher**Exploring Chemical Reaction Networks with KiNetX [CC-102]**Francesco Bosia, ETH Zürich
J. Proppe, M. Reiher***Reactive collision dynamics investigation of Methane-MgO⁺ [CC-103]**Sebastian Brickel, University of Basel
M. Meuwly***A QM/MM Study of the Dihydroxylation of Nitroaromatic Contaminants Catalyzed by Nitrobenzene Dioxygenase [CC-104]**Christoph Brunken, ETH Zürich
T. B. Hofstetter, H. E. Kohler, M. Reiher***Ab Initio Instanton Calculations with GPR [CC-105]**Danilo Calderini, ETHZ
G. Laude, J. O. Richardson***Al_xGa_{1-x}As crystals with direct band gaps larger than 2 eV from computational alchemy [CC-106]**Kuang-Yu Chang, University of Basel
O. von Lilienfeld**2D IR spectroscopy of Insulin: a combined experimental-computational study [CC-107]**Jasmine Desmond, University of Basel
M. Meuwly**How Do London Dispersion Interactions Impact the Photochemical Processes of Molecular Switches? [CC-108]**Alberto Fabrizio, EPFL
C. Corminboeuf**Time scaling of Frozen-Density Embedding Theory for excited states calculations [CC-109]**Yann Gimbal-Zofka, University of Geneva
A. Zech, N. Ricardi, T. Wesolowski***Calculating free-energy differences by conveyor belt thermodynamic integration [CC-110]**David Hahn, ETH Zürich
P. H. Hünenberger***Local resolution of the identity approach for time dependent density functional perturbation theory [CC-111]**Anna Hehn, University of Zurich
A. Bussy, M. Iannuzzi, J. Hutter***Towards efficient, accurate, scalable, and transferable quantum machine learning with AM-ons: The 'DNA' of chemistry [CC-112]**Bing Huang, University of Basel
O. von Lilienfeld***Analysis of the formation, structure and dynamics of a calcium phosphate aggregate using molecular dynamics simulations [CC-113]**Riccardo Innocenti Malini, Empa
F. Spano, R. Rossi, C. L. Freeman, J. H. Harding**First-Principles Simulations of Aqueous CO/Pt(111) Interface [CC-114]**Jinggang Lan, University of Zurich
M. Iannuzzi, J. Hutter**Revealing the Structure-Property Relationship of Organic Hole Transport Materials in Perovskite Solar Cell [CC-115]**Kun-Han Lin, EPFL Lausanne
A. Prlj, C. Corminboeuf***Revealing chemical patterns by combining sketch-map with the density overlap region indicator [CC-116]**Benjamin Meyer, EPFL Lausanne
M. Ceriotti, C. Corminboeuf***How does halogenation change binding affinity of ligands in a protein cavity? [CC-117]**Leila Mohammadzadeh, University of Basel
M. Meuwly**Tungsten oxide clusters in solution stabilized by boron nitride nanomesh [CC-118]**Tiziana Musso, University of Zurich
M. Müllner, A. Hemmi, J. Balajka, M. Schmid, U. Diebold, M. Iannuzzi, S. F. Mertens***NMR Meets Machine Learning: Orders of Magnitude Faster Chemical Shifts Predictions in Solids [CC-119]**Federico Paruzzo, EPFL
A. Hofstetter, F. Musil, S. De, M. Ceriotti*, L. Emsley***Wavefunction Frozen Density Embedding: an analysis of the errors in excitation energies [CC-120]**Niccolò Ricardi, University of Geneva
A. Zech, S. Prager, A. Dreuw, T. Wesolowski***A study of the Diels-Alder reaction between 2,3-dibromo-1,3-butadiene and maleic anhydride [CC-121]**Uxía Rivero, University of Basel
M. Meuwly, S. Willitsch***Atomistic Simulations: Vibrational Probes for Structural Studies [CC-122]**Debasish Koner, University of Basel
M. Meuwly***Reactivity of Carbon Allotrope Prism C₂₀ [CC-123]**Hiroko Satoh, University of Zurich
K. Ohno, M. Iannuzzi, J. Hutter*, H. Satoh***Machine Learning Models for Homogeneous Catalysis [CC-124]**Boodsarin Sawatlon, EPFL Lausanne
B. Meyer, S. Heinen, O. von Lilienfeld*, C. Corminboeuf***Concerted steps on CeO₂ enable vinyl chloride production through ethylene oxychlorination [CC-125]**Matthias Scharfe, ETH Zurich
M. Capdevila-Cortada, V. A. Kondratenko, E. Kondratenko, S. Colussi, A. Trovarelli, N. López, J. Pérez-Ramírez***Understanding Artificial Water Splitting - In Silico Study and Design of Water Oxidation Catalysts [CC-126]**Mauro Schilling, University of Zurich
S. Lubert*

Error-Controlled Exploration of Chemical Reaction Networks with Gaussian Processes [CC-127]Gregor Simm, ETH Zürich
M. Reiher***Molsembler: Molecular graph interpretation, modification and conformer generation with stereopermutational treatment of multidentate and haptic ligands [CC-128]**Jan-Grimo Sobez, ETH Zürich
M. Reiher***Water slip and osmotic transport on two-dimensional materials from *ab initio* molecular dynamics [CC-129]**Gabriele Tocci, University of Zurich
L. Joly, J. Hutter*, M. Iannuzzi***The Effects of S-Nitrosylation on the Conformational Dynamics of Myoglobin [CC-130]**Haydar Turan, University of Basel
M. Meuwly***Fast and accurate energy predictions with alchemical perturbation [CC-131]**Guido Falk von Rudorff, University of Basel
O. von Lilienfeld**Statistical Analysis of Semiclassical Dispersion Corrections [CC-132]**Thomas Weymuth, ETH Zürich
J. Proppe, M. Reiher***Inorganic Chemistry [IC]
Poster Session****New arene ruthenium metalla-assemblies for the transport of ¹⁸O₂ to treat hypoxic cancer [IC-101]**Marie Gaschard, Université of Neuchâtel
B. Therrien***Carbon etching chemistry for the generation of nanopores in single-layer graphene for gas-sieving [IC-102]**Kumar Agrawal, EPFL Lausanne
J. Zhao, K. V. Agrawal***Cu(I) Photoredox Catalyzed Trifluoromethylation Reactions [IC-103]**Murat Alkan-Zambada, EPFL Lausanne
X. Hu****In situ* neutron diffraction study of carbon dioxide adsorption on M-BTT frameworks, a series of highly crystalline MOFs [IC-104]**Mehrddad Asgari, EPFL Valais Wallis, Sion
S. Jawahery, P. A. Schouwink, R. Semino, M. Ceriotti, W. L. Queen***Dinitrogen reduction and functionalization by uranium multimetallic complexes. [IC-105]**Luciano Barluzzi, EPFL Lausanne
M. Falcone, J. Andrez, F. T. Fadaei, I. Zivkovic, M. Mazzanti*, K. Severin***Bridging the Gap: crosslinking allosteric sites on the nucleosome [IC-106]**Lucinda Batchelor, EPFL Lausanne
L. De Falco Jr, T. Von Erlach, Z. Adhireksan, U. Röthlisberger, C. A. Davey, P. J. Dyson***A catalytic CO₂ scrubber that generates cyclic carbonates from simple epoxide:ionic liquid mixtures. [IC-107]**Felix Bobbink, EPFL Lausanne
P. J. Dyson***Phosphane tuning for [Cu(N[^]N)(P[^]P)][PF₆] complexes in Light Emitting Electrochemical Cells [IC-108]**Fabian Brunner, University of Basel
E. C. Constable, C. E. Housecroft, H. J. Bolink, E. Ortí**Towards One-Photon Two-Electron Processes in Molecular Systems [IC-109]**Tobias Bürgin, University of Basel
O. S. Wenger***Catalytic activity and asymmetric induction of carbohydrate-functionalised transition metal–NHC systems [IC-110]**Joseph Byrne, University of Bern
M. Albrecht***The Importance of Subtle Steric Effects on Self-Assembled Coordination Cages [IC-111]**Giacomo Cecot, EPFL Lausanne
K. Severin***(RO)₂W(O)(pyridine)₃: Activity in Alkene Metathesis and Mode of Initiation [IC-112]**Ka Chan, ETH Zürich
F. Allouche, E. Lam, V. D'Anna, C. Michel, P. Sautet, O. V. Safonova, C. Copéret***A nanoporous two-dimensional silicate: synthesis and application in molecular-sieving [IC-113]**Mostapha Dakhchoune, EPFL Lausanne
G. He***Asymmetric Transfer Hydrogenation of Ketones: The Long-Standing Issue of the Base and its Solution [IC-114]**Lorena De Luca, ETH Zürich
A. Mezzetti***The Effect of Iron Binding on Pentavalent Uranyl(V) Stability [IC-115]**Radmila Faizova, EPFL Lausanne
S. White, R. Scopelliti, M. Mazzanti***Non-innocent behavior of pyridylideneamide (PYA) ligands [IC-116]**Albert Farré, University of Bern
M. Albrecht***A facile chemistry route for *in situ* passivation of hybrid imidazolium/methylammonium lead iodide perovskite solar cells [IC-117]**Zhaofu Fei, EPFL Lausanne
P. J. Dyson***New Star Shape Organometallic Complexes Containing Three Dinuclear Trithiolato-Bridged Ruthenium(II) Arene Units – Synthesis and Characterisation [IC-118]**Timo Felder, University of Bern
E. Păunescu, J. Furrer***Tuneable Exciton Binding Energy in New Fluorous Two Dimensional Perovskites [IC-119]**Inés García Benito, EPFL Valais Wallis, Sion
V. I. Queloz, C. Quarti, I. Zimmermann, S. Orlandi, M. Cavazzini, S. Marras, G. Pozzi, M. K. Nazeeruddin, G. Grancini***Light-driven base-promoted homolytic aromatic substitution reactions catalysed by a Mo⁰ complex [IC-121]**Felix Glaser, University of Basel
C. B. Larsen, O. S. Wenger***Structural and magnetic investigations of a mononuclear 4f polyoxometalate family with single molecule magnet behaviour [IC-122]**Robin Güttinger, University of Zurich
A. Kostanyan, O. Blacque, P. E. Car, G. R. Patzke*

[Re(η^6 -benzene)₂]⁺ as scaffold for artificial photosynthesis [IC-123]

Daniel Hernández Valdés, University of Zurich
B. Probst, B. Spingler, R. Alberto*

Synthesis and transfer of single-layer nanoporous graphene for molecular separation [IC-124]

Shiqi Huang, École Polytechnique Fédérale de Lausanne (EPFL)
G. He*

Synthesis and light-induced disassembly of coordination cages [IC-125]

Suzanne Jansze, EPFL Lausanne
K. Severin*

Stepwise introduction of large bite angle ligands in Cr(III) complexes: from terpyridine to dipyridine-2-yl-pyridine-2,6-diamine [IC-127]

Juan-Ramon Jimenez, University of Geneva
B. Doistau, C. Besnard, L. Guéene, C. Piguet*

Cuprophilia: dye-sensitized solar cells with copper(I) dyes and copper(I)/(II) redox shuttles [IC-128]

Mariia Karpacheva, University of Basel
F. J. Malzner, C. Wobill, A. Büttner, E. C. Constable, C. E. Housecroft*

Modifying spacers and anchoring groups for heteroleptic bisdiimine copper(I) based DSSCs [IC-129]

Y. Klein, University of Basel
C. E. Housecroft*, E. C. Constable*

Non-Aqueous Aluminium-Graphite Batteries: Status, Prospects and Future [IC-130]

Kostiantyn Kravchyk, ETH Zurich
S. Wang, L. Piveteau, M. V. Kovalenko*, K. V. Kravchyk*

Novel post-modification strategy of triazolylidene metal complexes to efficiently enhance catalytic activity [IC-131]

Karst Lenzen, University of Bern
M. Albrecht*

Coordination-induced evolution of single gold atoms on nitrogen-doped carbon for alkyne semi-hydrogenation [IC-132]

Ronghe Lin, D-CHAB, ETH Zurich
D. Albani, E. Fako, O. V. Safonova, N. López, J. Pérez-Ramírez*

Trimethylsilyl-Induced N–O Bond Cleavage in Nitrous Oxide-Derived Aminodiazotates [IC-133]

Yizhu Liu, EPFL Lausanne
L. Eymann, E. Solari, F. F. Tirani, R. Scopelliti, K. Severin*

Fighting Cancer with the Next Generation of Organometallic Assemblies Using the EPR-Effect [IC-134]

Vidya Mannancherril, Université de Neuchâtel
B. Therrien*

Characterization and improvement of p-type dye sensitized solar cells [IC-135]

Nathalie Marinakis, University of Basel
M. Willgerts, E. C. Constable, C. E. Housecroft

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Philipp Melle, University of Bern
M. Albrecht*

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Vivian Merk, Northwestern University
D. Joester*

'Liquid Perovskites': highly luminescent lead(II) halide ionic liquids [IC-138]

Viktoriia Morad, ETH Zürich
M. V. Kovalenko*

Artificial Photosynthesis: Immobilization Strategy on Metal Oxides [IC-139]

Mathias Mosberger, University of Zurich
N. Weder, P. Müller, B. Probst, R. Alberto*

The Influence of the Bridging Position in Cobalt Poly-pyridyl Water-Reduction Catalysts Towards Activity [IC-140]

Peter Müller, University of Zurich
R. Alberto*

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J. Madhusudhan Naik, University of Zurich
R. Jacot, R. Morè, R. Michalsky, A. Steinfeld, G. R. Patzke*

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Rob Jeremiah Nuguid, Paul Scherrer Institut
A. Marberger, M. Nachtegaal, D. Ferri, O. Kröcher*

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Marta Olivares, Universität Bern
M. Li, C. van der Ham, D. Hettler, S. Bernhard, M. Albrecht*

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Chad Palumbo, EPFL Lausanne
M. Mazzanti*

Mn(I) Complexes with P-Stereogenic Pincer Ligands in the Asymmetric Hydrogenation of Ketones [IC-145]

Alessandro Passera, ETH Zürich
A. Mezzetti*

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Monica Perinelli, University of Zurich
M. Tegoni, E. Freisinger*

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Claude Piguet, University of Geneva
B. Doistau, G. Collet, E. Acuna-Bolomey, C. Besnard, C. Piguet*

Towards a Better Understanding of Lead-Halide-Perovskite Structures with NMR [IC-148]

Laura Piveteau, ETH Zürich
V. Morad, M. Aebli, M. Millen, R. Verel, M. V. Kovalenko*

Synthetic route of trithiolato-bridged dinuclear arene ruthenium(II) complexes [(η^6 -*p*-MeC₆H₄Pr⁺)₂Ru₂(m-SR)₃]⁺: DFT calculations and synthesis of previously unreported complexes [IC-149]

Hedvika Primasová, University of Bern
S. Ninova, U. Aschauer*, J. Furrer*

Bridging the gap with silica-supported molybdenum-Oxo alkylidene for Olefin Metathesis [IC-150]

Margherita Pucino, ETH Zurich
C. Copéret*

Olefin dimerization and isomerization catalyzed by pyridylideneamide palladium complexes [IC-151]

Vera Rosar, University of Bern
M. Navarro, B. Milani, M. Albrecht*

A two-output signal Boolean logic-gate based on a blue colored [Ni(PCV)]Cl₂ complex for naked-eye detection of phosphate or thiol based molecules [IC-152]

Thibaud Rossel, Gymnase français de Bienne, Chemistry department

M. Creus, Students GF Bienne, T. Rossel*

Pyridylidene amide ligands for ruthenium(II) catalyzed CO₂ reduction [IC-153]

Kevin Salzmann, University of Bern

A. Weilhard, J. Dupont, V. S. Sangorrin, M. Albrecht*

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Lucius Schmid, University of Basel

J. Nomrowski, O. S. Wenger*

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Mirjam Schreier, University of Basel

J. Freudiger, X. Guo, O. S. Wenger*

N-Heterocyclic carbene ligands for oxidation catalysis with copper complexes [IC-156]

Nathalie Ségaud, University of Bern

M. Albrecht*

New chiral ligands derived from terpenes [IC-157]

Atena Solea, University of Fribourg

I. Cornu, K. M. Fromm, C. Allemann, O. Mamula Steiner*

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Petr Šot, ETH Zürich

C. Copéret*, J. A. van Bokhoven*

Porous Molecular Networks from Dative B-N Bonds [IC-159]

Alexander Stephens, EPFL Lausanne

R. Scopelliti, F. T. Fadaei, E. Solari, K. Severin*

New Organometallic Complexes Containing Two Dinuclear Trithiolato-Bridged Ruthenium(II) Arene Units [IC-160]

Valentin Studer, University of Bern

E. Păunescu, J. Furrer*

Multi-decker Arene Bridged Complexes of Lanthanides [IC-161]

Davide Toniolo, EPFL Lausanne

R. P. Kelly, R. Scopelliti, L. Maron, M. Mazzanti*

Luminescent π - π -assembled complexes of Zn and Cd with anthracene functionalized azole ligands [IC-162]

Serhii Vasylevskyi, University of Fribourg

Study of Plasmon-enhanced water splitting in a hematite photoanode [IC-163]

Luc Driencourt, University of Basel

B. Gallinet, S. Fricke, E. C. Constable*, C. E. Housecroft*

Scalable synthesis and exfoliation of poly(triazine imide) for nanometer-thick, molecular-sieving membranes [IC-164]

Luis Villalobos, EPFL Lausanne

K. V. Agrawal*

Current Collectors from Earth-Abundant Elements for Aluminum Chloride-Graphite Batteries [IC-165]

Shutao Wang, ETH Zürich

K. V. Kravchyk, M. V. Kovalenko*

Synthesis Towards Heterogeneous Cobalt Water Reduction Catalysts [IC-166]

Nicola Weder, University of Zurich

B. Probst, R. Alberto*

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Alexandra Wiesler, University of Basel

I. A. Dinu, M. Garni, S. Stolarov, E. C. Constable, C. G. Palivan, C. E. Housecroft*

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Cedric Wobill, University of Basel

C. E. Housecroft*, E. C. Constable*

Disordered dolomite mesocrystals: Direct synthesis from solution at ambient temperature and pressure [IC-170]

Jacinta Xto, ETH Zürich

D. Huachuan, C. Borca, J. A. van Bokhoven, T. Huthwelker

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Prerna Yadav, University of Zurich

F. Zelder*

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Fan Zhang, University of Neuchâtel

B. Therrien

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A non-stereogenic imidazolidinyl proline derivative as a pH-sensitive and functionalizable probe for tuning collagen triple helix stability [MC-101]

Matthew Aronoff, ETH Zürich

J. Egli, M. Menichelli, H. Wennemers*

Single molecule TIRF microscopy unveils prolonged residency time of PRC2 on chromatin through DNA binding mediated by PHF1 [MC-102]

Andreas Bachmann, EPFL Lausanne

J. Choi, B. Fierz*, J. Müller*

Click-code-seq: genome-wide nucleotide resolution mapping of 8-oxoG [MC-103]

Jasmina Büchel, ETH Zürich

J. Wu, S. J. Sturla, S. J. Sturla*

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Anne-Marinette Cao, EPFL Lausanne

M. Mivelaz, L. Bryan, I. Boichenko, J. Chavalley, S. Kubik, D. Shore, B. Fierz*

Beyond Lipinski – an analysis of the PubChem chemical space [MC-105]

Alice Capecchi, University of Bern

D. Probst, J. L. Reymond*

Crystallographic study of an antimicrobial bicyclic peptide from chemical space [MC-106]

Stéphane Carlessi, EPFL

I. Di Bonaventura, A. Stocker, S. Javor, J. L. Reymond*

Synthesis of aminopyrazole analogues for the treatment of leishmaniasis: A University-DNDi Open Synthesis project. [MC-107]

Carlotta Cecchini, University of Geneva

H. M. Ismail, N. Deschamps, L. Pellissier, G. Students from BUSP2, E. Rivara-Minten, E. Varesio, B. Perry, S. Tardy

Accelerating Turnover Frequency in Nucleic Acid Templated Reactions [MC-108]

Dalu Chang, University of Geneva
K. Kim, E. Lindberg, N. Winssinger*

Design, synthesis and photochemical properties of a new photoswitchable TRPV6 inhibitor [MC-109]

Micael Cunha, University of Bern
R. Bhardwaj, M. Hediger, J. L. Reymond*

Multifunctional harmonic nanoparticles targeting the microenvironment of lung cancer tumor for multimodal imaging and diagnosis [MC-110]

Raphaël de Matos, EPFL Lausanne
J. Vuilleumier, S. Passemard, D. Staedler, C. Mas, S. Constant, L. Bonacina, S. Gerber-Lemaire*

Structure-based Optimization of a selective TRPM4 inhibitor [MC-111]

Clémence Delalande, University of Bern
L. Ozhathil, D. Ross-Kaschitza, P. Arullampalam, M. Rubin, J. Gertsch, H. Abriel, S. Javor, J. L. Reymond*

Coumarin-labeled Dinuclear Trithiolato-Bridged Ruthenium(II) Arene Complexes – Synthesis, Characterization and Spectral Properties [MC-112]

Oksana Desiatkina, University of Bern
E. Păunescu, J. Furrer*

Phenylcarbonates as reactive species in DNA templated reactions [MC-113]

Kim Long Diep, University of Fribourg
E. Janett, C. G. Bochet*

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Jasmine Egli, ETH Zürich
H. Wennemers*

Tracking the Entry of Antimicrobial Peptide Dendrimer G3KL into *Pseudomonas aeruginosa* [MC-116]

Bee Gan, University of Bern
T. Darbre, J. L. Reymond*

Protective Role of Polymeric Carriers in Chlorin Delivery Against Protein Binding [MC-117]

Ilche Gjuroski, University of Bern
J. Furrer, M. Vermathen*

Chemical Surface Modification of Living Cells: Enzyme Immobilization and Light Guided Delivery [MC-118]

Simone Grendelmeier, University of Zurich
K. Gademann*

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Nora Guidotti, EPFL Lausanne
R. Gomez Ojea, B. Fierz*

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Jelena Habjanič, University of Zurich
A. Mathew, L. Eberl, O. Zerbe, E. Freisinger*

Therapeutic approaches for erythropoietic protoporphyria [MC-121]

François Halloy, ETH Zürich
P. Iyer, P. Cwiek, D. Schümperli, J. Hall*

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Anja Holzheu, University of Fribourg
S. I. Vasylevskyi, A. Crochet, K. M. Fromm*

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Ngoc An Le, University of Zurich
B. Spingler*

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Raphael Lengacher, University of Zurich
A. Frei, R. Alberto*

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Jinghui Luo, Paul Scherrer Institute
C. Wallin, Y. Hiruma, S. K. Wärmländer, I. Huvent, J. Jarvet, J. P. Abrahams, A. Gräslund, G. Lippens

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Rémi Martinent, University of Geneva
E. Bartolami, J. Saabach, Y. Cheng, N. Chuard, L. Zong, Y. Okamoto, N. Sakai, T. Ward, S. Matile*

Bicelles – Combining the Advantages of Micelles and Liposomes for Photosensitizer Delivery? [MC-127]

Max Meier, University of Bern
I. Gjuroski, J. Furrer*, M. Vermathen*

Synthesis of new building blocks from the chemical universe database GDB [MC-128]

Kris Meier, University of Bern
J. Arús-Pous, J. L. Reymond*

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Andrea Meier, University of Zurich
R. Berg, C. Gertzen, K. Zerbe, M. Gwerder, M. Remškar, H. Gohlke, R. Müller, K. Gademann*

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Christoph Meyer, University of Bern
I. Gjuroski, L. Sauser, J. Furrer, M. Vermathen*

Shaping the centromere – role of CCAN proteins in determining centromere chromatin [MC-131]

Harsh Nagpal, EPFL Lausanne
B. Fierz*

Induction of Reductive Stress in Mitochondria by Enzymatic Activation of a Trialkylphosphine Probe [MC-132]

Jade Nguyen, ETH Zürich
A. Tirla, P. Rivera-Fuentes*

Activated Charcoal Promotes Surgical Wound Healing Effects of *Musa Sapientum* and *Citrus Limon* Peel Gel in *Rattus Novergicus* [MC-133]

James Omale, Kogi State University, Nigeria

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Zbigniew Pianowski, KIT Karlsruhe
J. Karcher, Z. Pianowski*

Molecular Tools for the Cellular Study of Adenosine A₁ Receptors [MC-135]

Barbara Preti, University of Bern
B. Tesfazghi, P. Bartlome, M. Leuenberger, B. G. Frenguelli, G. Ladds*, M. Lochner*

Fast approximate tree representations of high-dimensional chemical spaces using minimum spanning trees [MC-136]

Daniel Probst, University of Bern
J. L. Reymond*

Strategies to crystallize the 1st human ribozyme: the CPEB3 ribozyme and its mutants [MC-137]

Anna Przytula-Mally, University of Zurich
S. Johannsen, R. K. Sigel*

Manufacturing of Novel Ultra-High Molecular Weight Branched Biopolymers for use with Antibody Based Bioconjugate Therapies [MC-138]

Stephen Raillard, Kodiak Sciences; Palo Alto, Ca / USA

Anti-cancer activity of metaldrug RAPTA-C in combination with repurposed medication [MC-139]

Magdalena Rausch, University of Geneva
P. J. Dyson, P. Nowak-Sliwinski*

Sesquiterpene lactones from *Artemisia argyi* – determination of absolute configurations and immunosuppressive activity [MC-140]

Jakob Reinhardt, University of Basel
A. M. Klemd, M. De Mieri, M. Smieško, R. Huber, T. Bürgi, C. Gründemann*, M. Hamburger*

A novel bioorthogonal ligation method and its application for *in vivo* glycan labelling [MC-141]

Rebecca Schäfer, ETH Zurich
M. R. Monaco, M. Li, H. Wennemers*

Study of 2-aminoethoxydiphenyl borate (2-APB) analogues in MDA-MB-231 and MCF-7 cells towards Orai isoform-specific modulation of store-operated calcium entry (SOCE) [MC-142]

Achille Schild, Universität Bern
R. Bhardwaj, M. Hediger*, M. Lochner*

Long-lasting and fast-acting *in vivo* efficacious antiplasmodial azepanylcarbazole amino alcohol [MC-143]

Thomas Spangenberg, Merck Global Health Institute

A Crystal Structure of EgtB, from Ergothioneine Biosynthesis, reveals an Alternative Catalytic Architecture to Catalyze an Identical Reaction [MC-144]

Anja Stampfli, University of Basel
T. Schirmer, F. P. Seebeck*

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Karolina Strakova, University of Geneva
M. Macchione, A. Goujon, A. Colom, A. Roux, N. Sakai, S. Matile*

Metabolic Labeling and Selective Cross-linking of Duplex DNA [MC-146]

Masayuki Tera, University of Zurich
N. W. Luedtke, N. W. Luedtke*

Hypervalent iodine reagents for fast and efficient peptide and protein labelling [MC-147]

Romain Tessier, EPFL Lausanne
J. de Ceballos, N. Guidotti, R. Simonet-Davin, B. Fierz*, J. Waser*

A Photoactivatable Probe for Super-Resolution Imaging of Nitroreductase Activity in Live Cells [MC-148]

Zacharias Thiel, ETH Zürich
P. Rivera-Fuentes*

Organelle targeting with short peptides that contain asparagusic acid [MC-150]

Alina Tirla, ETH Zürich
M. Hansen, P. Rivera-Fuentes*

Synthesis of functionalized probes based on GSK7975A to study SOCE [MC-151]

Dominic Tscherrig, University of Bern
R. Bhardwaj, M. Hediger*, M. Lochner*

Light triggered release of encaged molecular cargos from the surface of functionalized harmonic nanoparticles [MC-152]

Jérémy Vuilleumier, EPFL Lausanne
R. de Matos, V. Kilin, L. Bonacina, S. Gerber-Lemaire

Development of Personalized Cancer Nanovaccines against Neoantigens [MC-153]

Lixia Wei, EPFL Lausanne
Y. Zhao, L. Tang*

On-support synthesis of alkylamino linked oligonucleotides and their bypass by DNA polymerases [MC-154]

Junzhou Wu, ETH Zürich
S. J. Sturla*

Peptide dendrimers as delivery systems for nucleic acids [MC-155]

Susanna Zamolo, University of Bern
M. Heitz, J. L. Reymond*, T. Darbre*

Photophysical investigation on the interaction between Pt(II) complexes and an RNA G-quadruplex [MC-156]

Wang Zenghui, University of Zurich
F. D. Steffen, R. Börner, R. K. Sigel*

Near-Infrared Confocal Imaging of Single-Walled Carbon Nanotube Uptake in Nanobionic Bacterial Cells [MC-157]

Alessandra Antonucci, EPFL Lausanne
N. Schürgers, V. Zubkovs, A. A. Boghossian*

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Photoredox-catalysed Decarboxylative Alkynylation and Cyanation Using Cyclic Hypervalent Iodine Reagents [OC-101]

Stephanie Amos, EPFL Lausanne
F. Le Vaillant, J. Waser*

Development of Mild Procedure for Metal-Cp Complex Preparation to Enable *in situ* Applications [OC-102]

Benoît Audic, EPFL Lausanne
N. Cramer*

4-Epimerization of ascarosides downstream of the canonical β -oxidation cycle creates species specificity in nematode chemical signalling [OC-103]

Célia Bergame, University of Neuchâtel
C. Dong, S. H. von Reuss*

Control of Through-Space Spin Interactions in Diradical Systems [OC-104]

Annika Bernhardt, University of Zurich
M. Juríček*

Rapid and scalable synthesis of chiral bromolactones as precursors to α -exo-methylene- γ -butyrolactone-containing sesquiterpene lactones [OC-105]

Mathéo Berthet, University of Geneva
R. Lagoutte, M. Pastor fernandez, N. Winssinger*

Axially Chiral Dibenzazepinones *via* a Pd(0)-Catalyzed Intramolecular Atropo-enantioselective C-H Arylation [OC-106]

Elena Braconi, EPFL Lausanne
C. G. Newton, J. Kuziola, M. D. Wodrich, N. Cramer*

Enantioselective trifluoromethylation using hypervalent iodine based reagents : reaction development and mechanistic studies. [OC-107]

Roxan Calvo, ETH Zürich
A. Comas-Vives, D. Katayev*

High cooperativity in a molecular switch [OC-108]

Kenji caprice, Université de Geneve

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D. Lotter, C. Sparr***A Chiroptical and Magnetic Diradicaloid Photoswitch [OC-110]**Daniel Cavlović, University of Zurich
M. Juriček***Conception de pillar[5]arene[2]rotaxanes liquides-cristallins chiraux [OC-111]**Ahmed Chadi, University of Neuchâtel
P. Pieper, I. Nierengarten, J. F. Nierengarten, R. Deschenaux**Rh(III)-Catalysed C-H (Hetero)arylation of Pyridones and Quinolines with IndoleBX [OC-112]**Ashis Das, EPFL Lausanne
E. Grenet, P. Caramenti, J. Waser***Hypervalent Iodine reagents for fast and efficient peptide and protein modification [OC-113]**Javier de Ceballos, EPFL Lausanne
J. Waser***Nickel-Catalyzed Enantioselective Pyridone C-H Functionalizations Enabled by a Bulky *N*-Heterocyclic Carbene Ligand [OC-114]**Johannes Diesel, EPFL Lausanne
A. M. Finogenova, N. Cramer***Cp^{*}Rh(III)-Catalyzed Enantioselective Cyclopropanation via Alkenyl C-H Activation [OC-115]**Coralie Duchemin, EPFL Lausanne
N. Cramer***Pd-catalyzed carboamination of 2-substituted conjugated 1,3-dienes [OC-116]**Michele Garbo, University of Geneva
G. M. Borrajo-Calleja, C. Mazet***Decarboxylative alkylation of peptides C-terminal using photoredox catalysis [OC-117]**Marion Garreau, EPFL Lausanne
J. Waser***Trifluoroaldehyde-Based Tethers for Palladium Catalysis [OC-118]**Phillip Greenwood, EPFL Lausanne
J. Waser***Reactivity of the key intermediate of gold catalysed olefin hydroamination [OC-119]**Joël Gubler, ETH Zürich
P. Chen***Catalyst-Controlled Diastereoselective Isomerization of Acyclic Optically Active Primary Allylic Alcohols [OC-120]**Julien Guillemin, University of Geneva
H. Li, C. Mazet***Pyrrrolizidines for Direct Air Capture and CO₂ Conversion [OC-121]**Jan Hanusch, University of Zurich
I. P. Kerschgens, F. Huber, M. Neuburger, K. Gademann***Towards an Excited State Hammond Postulate [OC-122]**Freya Harvey, University of Fribourg
C. Bochet***Enantioselective Cp^xIr^{III}-Catalyzed C-H Amidations and Arylations Give Access to *P*-Chiral Phosphorus(v) Compounds [OC-123]**Yun-Suk Jang, EPFL Lausanne
N. Cramer***[8]Cethrene: A Helical Non-Kekulé Triplet Diradical [OC-124]**Mohebodini Karbasiyou, University of Zurich
M. Juriček***Double-Stranded RNA-Specific Templated Reaction with Triplex Forming PNA [OC-125]**Ki Kim, University of Geneva
D. Chang, N. Winssinger**Synthesis of 1-Acyl Triazenes by Gold(I)-Catalysed Oxidation of 1-Alkynyl Triazenes [OC-126]**Iris Landman, EPFL Lausanne
K. Severin***Synthèse de *tris*-[60]fullérodendrimères liquides-cristallins pour la conception de matériaux ferroélectriques [OC-127]**Giau Le, University of Neuchâtel
R. Deschenaux***An eco-friendly route to Pd-containing mesoporous carbons for hydrogenations and C-C bond forming reactions in ethanol or water [OC-128]**Claude Le Drian, Université de Haute-Alsace
M. Enneimy, C. Matei Ghimbeu, J. Becht***Harnessing photoredox-catalyzed decarboxylation as a key step in the functionalization of carboxylic acids and cyclic alkylketones using hypervalent iodine reagents [OC-129]**Franck Le Vaillant, EPFL Lausanne
M. Garreau, S. Nicolai, J. Waser***Towards the Total Synthesis of the Antimycobacterial Natural Product Amicetin and SAR Studies [OC-130]**Lukas Leu, ETH Zürich
K. Altmann***Proline-rich cyclic peptides for cation recognition [OC-131]**Simon Loosli, ETH Zürich
C. A. Foletti, H. Wennemers***Toward the Total Synthesis of Puraquinonic Acid via Pd(0)-Catalyzed Enantioselective C(sp³)-H Arylation as the Key Step [OC-132]**Romain Melot, University of Basel
M. Craveiro, M. Craveiro, O. Baudoin***Palladium-Catalyzed Carboamination of Allylic Alcohols Using a Removable Tether [OC-133]**Bastian Muriel, EPFL Lausanne
U. Orcel, J. Waser***Development of New Hypervalent Indole(D)BX reagent And Its Application to Regioselective Arylation of Indoles [OC-134]**Raj Nandi, EPFL Lausanne
P. Caramenti, J. Waser***Catalysis with and without Metals towards the Total Synthesis of Tocopherols [OC-135]**

Thomas Netscher, DSM Nutritional Products

Control of Spin Interactions in Helical Diradicaloids [OC-136]Tomáš Pastierik, University of Zurich
M. Juriček***Gold Nanoparticle Dimers via Acetylene Homocoupling [OC-137]**E. Peters, University of Basel
M. Mayor*

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Giovanni Picca, University of Bern
S. M. Langenegger, M. Probst, O. Khorev, P. Bütikofer, A. Menon,
R. Häner*

Copper-Catalyzed transformation of Diazo Compounds with Hypervalent Iodine Reagents [OC-139]

Guillaume Pisella, EPFL Lausanne
J. Waser*

Mechanistic Insights into Azobenzene-Ester Coupling: Evidence for Nickel Imide Intermediates [OC-140]

Marten Ploeger, EPFL Lausanne
A. Daru, J. N. Harvey, X. Hu*

Developing Chiral 1,3,2-Diazaphospholenes for Enantioselective Catalysis [OC-141]

John Reed, EPFL Lausanne
S. F. Miaskiewicz, P. Donets, C. Oliveira, N. Cramer*

Synthesis of Nitrogen Heterocycles by Palladium(0)-Catalyzed C(sp³)-H Activation [OC-142]

Ronan Rocaboy, University of Basel

Increasing Molecular Complexity by Remote Refunctionalization: Merging Olefin Isomerization and Cross-Coupling [OC-144]

Ciro Romano, University of Geneva
C. Mazet*

Pd-Catalyzed γ -Arylation of γ,δ -Unsaturated *O*-Carbamates via an Unusual Haptotropic Rearrangement. [OC-145]

Titouan Royal, University of Basel
T. Royal, O. Baudoin*

Synthesis of α -amanitin via a Rh(III)-catalyzed tryptathionine formation [OC-146]

Philipp Seeberger, EPFL Lausanne
N. Cramer*

AzidoBenziodolone (ABX) & Analogues: Development of a New Reaction and Safety Studies [OC-147]

Raphaël Simonet-Davin, EPFL Lausanne
S. Alazet, J. Preindl, S. Nicolai, A. Nanchen, T. Meyer, J. Waser*

Thio-catalyzed Hydroalkylation of Alkenes Employing Water as Source of Hydrogen [OC-148]

Valentin Soulard, Universität Bern
M. Meyer Mojzes, P. Renaud*

Studies Towards the Total Synthesis of Nahuoic Acid A [OC-149]

Barbara Stoessel, ETH Zürich
K. Altmann*

Rh(III)-Catalyzed Asymmetric Synthesis of Heteroatom-Stereogenic Compounds [OC-150]

Yang Sun, EPFL Lausanne
N. Cramer*

Development of Novel Reagents for the C-H Trifluoromethoxylation of Arenes [OC-151]

Pascal Tripet, ETH Zürich
B. J. Jelier, I. Franzoni, G. Jeschke, A. Togni*

Organic linker molecules designed to provide regional control over MOF growth [OC-152]

David Vogel, University of Basel
M. Mayor*

Lewis Acid catalyzed enantioselective desymmetrization of donor-acceptor *meso*-diaminocyclopropanes [OC-153]

Mingming Wang, EPFL Lausanne
J. Waser*

A Readily Accessible Class of Chiral Cp Ligands and their Application in Ru(II)-Catalyzed Enantioselective Syntheses of Dihydrobenzoindoles [OC-154]

Shou Wang, EPFL Lausanne
S. H. Park, N. Cramer*

Chitosan/Carboxymethyl Cellulose Sulfuric Acid Hydrogels and Their Nanocomposites: Preparation and Application in Tartrazine Removal [OC-155]

Ali Karimi, Arak University, Iran
G. Torabi

**Physical Chemistry [PC]
Poster Session****High Resolution Spectroscopy of Monodeuterooxirane from the GHz and THz to the IR Range (n₈ Fundamental) [PC-101]**

Sieghard Albert, ETH Zürich
K. Keppler, C. Manca Tanner, Z. Chen, J. Stohner, P. Lerch, O. Trapp, V. Schurig, M. Quack*

From Monomers to Stacks: From “simple” photophysics to complex sub-populations [PC-102]

Alexander Aster, University of Geneva
A. Bornhof, S. Matile, E. Vauthey

Crystal Structure Prediction & NMR Powder Crystallography [PC-103]

Martins Balodis, EPFL Lausanne
A. Hofstetter, F. M. Paruzzo, G. Stevanato, A. C. Pinon, C. Widdifield, P. , G. M. Day, L. Emsley

2D Raman-THz Spectroscopy of water and heavy water near the freezing point [PC-104]

Arian Berger, University of Zurich
G. Ciardi, A. Shalit, P. Hamm*

Photo-controlling protein allostery in PDZ3 domain [PC-105]

Olga Bozovic, University of Zurich
B. Jankovic, C. Zanobini, P. Hamm*

Early Charge Carrier Dynamics in Lead Halide Perovskites [PC-106]

Andrés Burgos-Caminal, EPFL Lausanne
A. Willauer, A. Ajdar-Zadeh, J. Moser*

Gas-Liquid Scattering Dynamics in Crossed Jets [PC-107]

Bruno Credidio, EPFL Lausanne
C. Schewe, S. Malerz, H. Haak, H. Ali, C. Kolbeck, M. Pohl, B. Winter, G. Meijer, A. Osterwalder*

Synthesis and self-assembly of amphiphilic PEO-*b*-PEHOx polymers into multicompartement micelles [PC-108]

Davy Daubian, University of Basel
J. Gaitzsch, W. Meier*

Lipid transmembrane asymmetry probed by vibrational sum-frequency scattering [PC-109]

Jan Dedic, EPFL Lausanne
H. I. Okur, G. Pabst, S. Roke

2D IR spectroscopy of Insulin: a combined experimental-computational study [PC-110]

Jasmine Desmond, University of Basel
M. Meuwly

Temperature dependence of water-water and ion-water correlations in bulk water and electrolyte solutions probed by femtosecond elastic second harmonic scattering [PC-111]

Nathan Dupertuis, EPFL Lausanne
Y. Chen, S. Roke*

Understanding the structural and chemical changes of SnO₂ nanoparticles during CO₂ electro-catalysis derived from operando XAS and Raman Spectroscopy [PC-112]

Abhijit Dutta*, University of Bern

A. Kuzume, V. Kaliginedi, M. Rahaman, I. Sinev, B. R. Cuenya, S. Vesztergom, P. Broekmann*

Compositionally variant CuAg bimetallic foam: Towards electrochemical CO₂ conversion into selective Ethanol [PC-113]

Abhijit Dutta*, University of Bern

I. Z. Montiel, M. Rahaman, P. Broekmann*

Label-free Nonlinear Microscopy of Model Biological Membranes with Incorporated Ion Channels [PC-114]

Maksim Eremchev, EPFL Lausanne

O. Tarun, S. Roke

Measurement of Long-Range Heteronuclear Coupling Constants Using the Peak Intensity in Classical 1D HMBC Spectra [PC-115]

Julien Furrer, University of Bern

P. Bigler, J. Furrer*

Why is HMBC superior to LR-HSQC? Influence of homonuclear couplings J_{HH} on the intensity of long-range correlations [PC-116]

Julien Furrer, University of Bern

P. Bigler, J. Furrer*

Hydrogen evolution reaction on metallic electrodes in acidic solutions [PC-117]

María de Jesús Gálvez-Vázquez, University of Bern

V. Grozovski, S. Vesztergom, P. Broekmann*

Stereodynamics Coming in From The Cold: The Chemi-ionisation of Neutrals [PC-118]

Sean Gordon, EPFL Lausanne

J. Zou, S. Tanteri, P. Brumer, J. R. Romero, A. Osterwalder*

2D/3D Hybrid Perovskites for Stable and Efficient Solar Cells [PC-119]

Giulia Grancini, EPFL Lausanne

C. C. Roldan-Carmona, I. Zimmermann, K. Cho, D. Martineau, M. Graetzel, M. K. Nazeeruddin

High-Resolution Spectroscopy in the Vacuum-Ultraviolet exploiting a new KBBF Prism-Coupled Device [PC-120]

Holger Herburger, ETH Zürich

U. Hollenstein, F. Merkt*

Determination of the Lowest Rovibrational Intervals in H₂⁺ with 10⁻⁹ Accuracy [PC-121]

Nicolas Hölsch, ETH Zürich

M. Beyer, F. Merkt*, C. Jungen*

Examining the Ultrafast Ligand to Metal Charge Transfer in Ferricyanide [PC-122]

Rebecca Ingle, EPFL Lausanne

J. Odeja, L. Mewes, S. Carlessi, J. Grilj, C. A. Arrel, M. Reinhard, F. van Mourik, M. Chergui*

Modulating S-protein/S-peptide interactions in RNase S complex by light [PC-123]

Brankica Jankovic, University of Zurich

C. Zanobini, O. Bozovic, R. Pfister, P. Hamm*

Spectroscopic Parameters and Electronic Relaxation of Paramagnetic Gadolinium Complexes [PC-124]

Katharina Keller, ETH Zurich

M. Qi, J. Wegner, V. Koch, H. Hintz, J. A. Clayton, S. Han, M. S. Sherwin, A. Godt, M. Yulikov*

Ligand dissociation and recombination of Nitrosyl-myoglobin in physiological media studied by ultrafast X-ray spectroscopy and X-ray Diffuse Scattering [PC-125]

Dominik Kinschel, EPFL Lausanne

C. Bacellar, O. Cannelli, B. Sorokin, F. Lima, G. Mancini, T. Katayama, W. Gawelda, T. Suzuki, M. Chergui*

Enhanced electrocatalytic CO₂ conversion on nanostructured silver electrodes in ionic liquids [PC-126]

Kiran Kiran, University of Bern

A. V. Rudnev, I. Gjuroski, A. Cedeño López, J. Furrer, P. Broekmann

How to accelerate diffusion of CO₂ in ionic liquids for its electrochemical conversion [PC-127]

Kiran Kiran, University of Bern

A. V. Rudnev, I. Gjuroski, D. Vasilyev, P. J. Dyson, J. Furrer, P. Broekmann

Selective Reaction of Phosphonate with Strained Siloxane Bridges on Silica Surfaces via ³¹P Solid-State NMR and DNP-SENS [PC-128]

Tsung-Han Lin, ETH Zürich

W. Liao, K. Searles, M. Schwarzwalder, A. J. Rossini, L. Emsley, C. Copéret*

Towards hybrid trapping of cold molecules and cold molecular ions [PC-129]

Christian Mangeng, University of Basel

D. Haas, C. von Planta, D. Zhang, S. Willitsch*

Probing the CPEB3 RNA structure by NMR [PC-130]

Irina Markova, University of Zurich

S. Johannsen, R. K. Sigel*

Molecular Engineering Towards Highly Efficient and Stable Perovskite Solar Cells [PC-131]

Jovana Milic, EPFL Lausanne

X. Li, D. Bi, J. Seo, J. Im, D. Kubicki, A. Ummadisingu, I. M. Dar, T. LaGrange, L. Emsley*, M. Graetzel*

Discerning γ -Alumina Surface Sites with Nitrogen-15 Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy of Adsorbed Pyridine [PC-132]

Iliia Moroz, ETH Zürich

K. Larmier, W. Liao, C. Copéret*

Excited state dynamics of helicene dimers [PC-133]

Christoph Nançoz, University of Geneva

I. H. Delgado, K. Ramakrishna, J. Lacour, E. Vauthey*

Mechanosensitivity of polydiacetylene with a phosphocholine headgroup [PC-134]

Roberto Ortuso, University of Geneva

K. Sugihara*

Long-range Rydberg molecules bound by electron-atom scattering [PC-136]

Michael Peper, ETH Zürich

H. Saßmannshausen, F. Merkt*, J. Deiglmayr*

The Use of Peptide Bonds for Cold Ion Spectroscopy [PC-137]

Aleksandr Pereverzev, EPFL Lausanne

O. Boyarkin

Novel Oxide Derived Zn Nano-Catalysts for Efficient Conversion of CO₂ to Formate [PC-139]

Motiar Rahaman, University of Bern

N. Schlegel, A. Dutta*, P. Broekmann*

Understanding OECT; The new THz ATR spectroscopic option [PC-140]

Gonzague Rebetez, University of Bern

J. Réhault, N. Banerji*

Broadband Ultrafast Spectroscopy and Molecular Dynamics Simulations of Electron Donor/Acceptor Complexes [PC-141]

Christopher Rumble, University of Geneva
E. Vauthey*

Scattering study of C(³P)+NO(X²Π) collisions on 2A', 2A'' and 4A'' potential energy surfaces [PC-142]

Debasish Koner, University of Basel
M. Meuwly*, R. J. Bemish*

Small-Molecule Reactions : NO₂ case [PC-143]

Juan Carlos San Vicente Veliz, University of Basel
M. Meuwly

Inorganic Perovskite Nanocrystal Antennae for Photocatalytic Applications [PC-144]

Erik Saparbayev, EPFL Lausanne

Cold ion spectroscopy of non-covalent complexes for identification of isomeric glycans [PC-145]

Erik Saparbayev, EPFL Lausanne
V. Kopysov, A. Y. Pereverzev, O. Boyarkin*

Tailored photocleavable peptides: a strategy for charge control in high vacuum [PC-146]

Jonas Schaetti, University of Basel
M. Debiossac, M. Kriegleder, P. Geyer, A. Shayeghi, M. Mayor, M. Arndt*, V. Köhler*

Manipulating the translational and internal degrees of freedom of hydrogen atoms [PC-147]

Simon Scheidegger, ETH Zurich
P. Jansen, J. A. Agner, H. Schmutz, F. Merkt*

Excited-State Dynamics of BODIPY Decorated Phenyl-ethynylene Dendrimers [PC-148]

Konstantinos Seintis, University of Geneva
A. Rosspeintner, M. Blanchard-Desce, E. Vauthey*

High-resolution spectroscopy of the $a^3\Sigma_u^+$ state of ⁴He, using Zeeman-decelerated spin-polarized molecular beams [PC-149]

Luca Semeria, ETH Zurich
P. Jansen, J. A. Agner, H. Schmutz, F. Merkt*

Towards Interpretation of the 2D-Raman-THz Spectrum of Water by Systematic Modification of a Polarizable Water Force Field [PC-150]

David Sidler, University of Zurich
P. Hamm*

Quantum-Logic Spectroscopy of Molecular Ions [PC-151]

Mudit Sinhal, University of Basel
K. Najafian, G. Hegi, S. Willitsch*

Effect of structural disorder on excited-state symmetry breaking in D-A-D quadrupolar molecules [PC-152]

Magnus Soderberg, University of Geneva
E. Vauthey*

Dye sensitization of photoelectrodes with copper based sensitizer molecules [PC-153]

Jens Top, Empa
B. S. Mun, A. Braun*, C. E. Housecroft*

Bulk nuclear hyperpolarization of inorganic solids using dynamic nuclear polarization [PC-154]

Brennan Walder, EPFL Lausanne
S. Björgvinsdóttir, A. C. Pinon, L. Emsley*

High-resolution laser spectroscopy of Mg Rydberg states in a supersonic beam [PC-155]

Dominik Wehrli, ETH Zürich
M. Génévriez, J. Agner, F. Merkt

A new approach to quantitative analysis of oligosaccharides [PC-156]

Natalia Yalovenko, EPFL Lausanne
T. Rizzo*

Rydberg-Stark Deceleration of Helium Atoms on a Chip for Merged-Beam Experiments in Low-Temperature Ion-Molecule Chemistry [PC-157]

Matija Zesko, ETH Zürich
V. Zhelyazkova, J. A. Agner, H. Schmutz, F. Merkt*

Trapping Rydberg helium atoms above a chip device [PC-158]

Valentina Zhelyazkova, ETH Zurich
M. Zesko, J. A. Agner, H. Schmutz, F. Merkt*

Stereodynamics of the Ne(³P₂) + X (X = Rg, N₂) reactions [PC-159]

Junwen Zou, EPFL Lausanne
S. Gordon, S. Tanteri, A. Osterwalder, A. Osterwalder*

Spinning-disc confocal microscopy in the second near-infrared window (NIR-II) [PC-160]

Vitalijs Zubkovs, EPFL Lausanne
A. Antonucci, N. Schürgers, B. Lambert, A. Latini, R. Ceccarelli, A. Santinelli, A. Rogov, D. Ciepielewski, A. A. Boghossian*

**Polymers, Colloids & Interfaces [PI]
Poster Session****Tapered Graphene Cross-Sectional Materials: Synthesis of Various Molecular and Polymer Derivatives [PI-101]**

Bassam Alameddine, Gulf University for Science and Technology, Kuwait
N. Baig, S. Shetty, F. Al-Sagheer, S. Al-Mousawi, B. A. Alameddine*

Organogel and Microporous Polymers from a One-pot Synthesis of Iron(II) Clathrochelate Building Blocks [PI-102]

Bassam Alameddine, Gulf University for Science and Technology, Kuwait
N. Baig, S. Shetty, F. Al-Sagheer, S. Al-Mousawi, B. A. Alameddine*

New Materials For the 3D Printing of Biodegradable Personalized Medical Devices [PI-103]

Yinyin Bao, ETH Zürich
N. Arsenovic, K. Masania, N. Kleger, J. Cadalbert, A. Studart*, J. Leroux*

Multilayered polymeric hybrid materials: How to covalently bond silk proteins on polymers for optical materials [PI-104]

Livia Bast, University of Fribourg
N. Bruns*

Compartments and cascades: a model reaction for complex nanoscale systems [PI-105]

Andrea Belluati, University of Basel
I. Craciun, J. Liu, C. G. Palivan*

Enhanced Vibrational Circular Dichroism signal as a result of interaction between water soluble gold nanocluster and CoCl₂ [PI-106]

Sarita Bhattacharya, University of Geneva
T. Bürgi*

Polarimetric angle-resolved second harmonic scattering on colloidal TiO₂ nanoparticles in aqueous environments [PI-107]

Marie Bischoff, EPFL Lausanne
A. Marchioro*, S. Roke*

Degrading of Zwitterionic Poly(2-Methacryloyloxyethyl Phosphorylcholine) Brushes from Silicon Substrates in Aqueous Media [PI-108]

Julian Bleich, EPFL Lausanne
H. A. Klok*

Oscillatory structural forces of confined silica particles in solution [PI-109]

Johannes Bookhold, University of Geneva
M. Borkovec*

Micro-heterogeneous Catalysis of the *N*-Nitrosation of Secondary Amines by Micelles Forming Surfactants [PI-110]

Florian Breider, EPFL Lausanne
I. Salihu, U. von Gunten

DNA-Functionalized amphiphilic Spheres [PI-111]

Nutcha Bürki, University of Bern
S. M. Langenegger, R. Häner*

Elasticity in physically cross-linked amyloid fibril networks [PI-112]

Yiping Cao, ETH Zurich
S. Bolisetty, J. Adamcik, R. Mezzenga*

Silicone elastomers with thioether side groups as dielectric for electromechanical transducers [PI-113]

Philip Caspari, EPFL Lausanne
S. J. Duenki, F. A. Nüesch, D. M. Opris*

Stiff and tough bio-inspired hydrogels [PI-114]

Alvaro Charlet, EPFL Lausanne
E. Amstad*

Patchy Modification of Cellulose Nanocrystals towards Symmetric and Asymmetric Twisted Nanorods [PI-115]

Gwenn Delepierre, University of Fribourg
B. Risteen, P. Russo, E. Reichmanis, C. Weder, J. Zoppe*

Diffusion of polymers through periodic networks of lipid-based nanochannels [PI-116]

Reza Ghanbari, ETH, Zürich
S. Assenza, A. Saha, R. Mezzenga*

Enzyme immobilization on different solid silicate surfaces with the help of a dendronized polymer [PI-117]

Nicolas Ghéczy, ETH Zürich
M. Yoshimoto, P. Walde*

A Nanoparticle Platform for Heterogeneous Nucleation Events in Amyloid Formation and Protein Aggregation [PI-118]

Fulvio Grigolato, ETH Zürich
C. Colombo, R. Ferrari, L. Rezabkova, P. Arosio*

Polyhydroxyalkanoate blockcopolymers – A comparison of different approaches [PI-119]

Nils Hanik, HES-SO Valais
C. Utsunomia, S. Weinberger, D. Ribitsch, G. Gübitz, M. Zinn*

Stimuli-responsive supramolecular polymer adhesives exhibiting high toughness and stiffness [PI-120]

Diana Hohl, University of Fribourg
J. Sautaux, L. Montero de Espinosa, C. Weder*

Aggregation-Induced Emission in Lamellar Solids of Colloidal Perovskite Quantum Wells [PI-121]

Jakub Jagielski, ETH Zürich
S. Kumar, C. Shih

Alternating Layers of Cationic and Anionic Supramolecular Polymers on Mica [PI-122]

Jovana Jevric, University of Bern
S. M. Langenegger, R. Häner*

Multi-functional hydrogel systems based on PU and PAAA hydrogels [PI-123]

Haiyan Jia, EPFL Lausanne
Z. Huang, X. Wang*, M. S. Sakar*

Growth Nano-/Micro-Architectures by ATRP [PI-124]

Chengjun Kang, Zurich University of Applied Sciences
A. Honciuc

CdSe/CdSe_xTe_{1-x} Core/Alloyed Crown Nanoplatelets with Highly Tunable Excitonic Properties [PI-125]

Yusuf Kelestemur, ETH Zurich
H. V. Demir, H. V. Demir*

Controlling the Local Composition of Hydrogels [PI-126]

Michael Kessler, EPFL Lausanne
E. Amstad*

Merging of DNA-Photonic Wires with Light-Harvesting Supramolecular Polymers [PI-127]

Mariusz Kownacki, University of Bern
S. M. Langenegger, S. Liu, R. Häner*

Depletion forces present between silica particles in solutions of polyelectrolytes [PI-128]

Katarzyna Kubiak, University of Geneva
M. Borkovec

Using dynamic covalent bonds to fabricate high-performance bio-inspired composites [PI-129]

Rafael Libanori, ETH Zurich
S. T. Roldan Velasquez, J. A. Ulbrich, M. R. Binelli, A. Studart*

Mechanical interlocking in highly-stretchable hydrogel-based composites [PI-130]

Rafael Libanori, ETH Zurich
S. T. Roldan Velasquez, A. Studart*

Colloid-electrospinning: polymer properties controlling the release rate of volatiles from microcapsules-in-fibers morphology [PI-131]

Nicolas Luisier, Empa
C. Toncelli, R. Rossi, G. Fortunato*

Colloidal Cu₃VS₄ nanocrystals as promising candidates for efficient energy conversion and storage systems [PI-132]

Valeria Mantella, EPFL Lausanne
S. Saris, A. Loiudice, R. Buonsanti*

Aggregation of a squaraine-modified oligonucleotide in aqueous solution [PI-133]

Larysa Markova, University of Bern
R. Häner*

Synthesis of PEDOT Capsules from Pickering Emulsions Stabilized by Janus Nanoparticles [PI-134]

Voichita Mihali, Zurich University of Applied Sciences
A. Honciuc

Reversibly crosslinked polymer brushes by covalent and hydrogen bonding [PI-135]

Piotr Mocny, EPFL Lausanne
M. A. González Alanís, H. A. Klok*

Development of Mechanically-Adaptive, Stimuli-Responsive Polymer Networks [PI-136]

Baptiste Monney, University of Fribourg
D. Moatsou, C. Weder*

Nonlinear optical imaging of silica-water interface [PI-137]

Igor Nahalka, EPFL Lausanne
C. M. Romero, H. I. Okur, S. Roke*

Covalent conjugation of ketoprofen to alginate-based hydrogels reduces fibrosis in the transplantation of insulin producing cells [PI-138]

François Noverraz, EPFL Lausanne

L. Szabó, E. Montanari, D. Ortiz, L. H. Bühler, S. Gerber-Lemaire*

Understanding phase diagrams in organic ternary blend solar cells [PI-139]

Frank Nüesch, EPFL Lausanne

M. Makha, P. Schwaller, K. Strassel, S. B. Anantharaman, R. Hany, J. Heier

Stimuli-responsive Pt⁽⁰⁾-containing metallosupramolecular polymers [PI-140]

Luis Olachea, University of Fribourg

L. Montero de Espinosa, E. Oveisi, S. Schrettl, C. Weder*

Polyamides Comprising Bithiophene Segments [PI-141]

Bilal Özen, EPFL Lausanne

J. C. Plummer, H. Frauenrath*

How to transfer electrons across liposomal membranes with light [PI-142]

Andrea Pannwitz, Leiden University, Netherlands

S. Bonnet

Synthesis of novel cyclosiloxane monomers containing push-pull moieties and their anionic ring opening polymerization [PI-143]

Elena Perju, Empa

E. Cuervo-Reyes, S. Shova, D. M. Opris*

Immobilisation of Photosensitizers by Electropolymerization [PI-144]

Franziska Rahn, University of Zurich

R. Alberto, B. Probst, R. Alberto*

Self-assembly of a Bolaamphiphilic Cyclopenta[hi]aceanthrylene Derivative in Aqueous Medium [PI-145]

Simon Rothenbühler, University of Bern

S. M. Langenegger, R. Häner*

Low voltage actuators with polar silicones [PI-146]

Yauhen Sheima, EMPA / EPFL Lausanne

Engineering of Multifunctional Alginate-based Hydrogels to Enhance Mechanical Properties and Immunoprotection in the Transplantation of Microencapsulated Cells [PI-147]

Luca Szabó, EPFL Lausanne

F. Noverraz, E. Montanari, L. H. Bühler, C. Gonelle-Gispert, S. Gerber-Lemaire*

Label-free and charge-sensitive dynamic imaging of lipid membrane hydration on millisecond time scales [PI-148]

Orly Tarun, EPFL Lausanne

C. Hanneschläger, P. Pohl, S. Roke*

Microwave-Assisted Synthesis of PDMS-PMOXA as Amphiphilic Diblock Copolymer [PI-149]

Riccardo Wehr, University of Basel

D. Daubian, J. Gaitzsch, W. Meier*

One-component polymer nanocomposites based on hairy cellulose nanocrystals [PI-150]

Sandra Wohlhauser, University of Fribourg

W. Meesorn, L. Montero de Espinosa, J. Zoppe, C. Weder*

Ultralight nanofiber aerogels with dual functionality for oil/water and water/oil separation [PI-151]

Anja Wohlhauser, Zurich University of Applied Sciences ZHAW

C. Adlhart*

Key Properties of Nanoparticles that Control Their Spontaneous Adsorption at Liquid-Liquid Interfaces [PI-152]

Dalin Wu, Zurich University of Applied Sciences ZHAW

A. Honciuc

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