

**SCS FALL MEETING 2015, POSTER SESSIONS**

Name (regular font) = Presenting Author

Name (*italic font*) = Main Research Leader**Analytical Sciences [AS]  
Poster Session**

Jury members: Stefan Schürch, University of Bern, Hanspeter Andres, METAS

**Investigating the binding sites of RAPTA-C and RAPTA-EA to a 50 amino acid peptide using ETD fragmentation and ChemInfo algorithms [AS-101]**Laure Menin, *Paul Dyson*, EPF Lausanne,**Nano-SIMS to study the distribution of metal based anti-cancer compounds *in vitro* [AS-102]**Ronald FS Lee, *Paul Dyson*, EPF Lausanne**A Universal Low-Flow Secondary ElectroSpray Ionizer: High Sensitivity Volatile Analysis on Pre-existing MS Instruments [AS-103]**César Barrios, *Pablo Martinez-Lozano Sinues*, ETH Zurich**Characterization of a 2D Polymer Monolayer with Tip-Enhanced Raman Spectroscopy [AS-104]**Feng Shao, *Renato Zenobi*, ETH Zurich**Target plate material resistivity influences LDI efficiency [AS-105]**Guido Paul Zeegers, *Renato Zenobi*, ETH Zurich**Sr isotope ratios and Rb-Sr ages by LA-ICPMS with isobar separation by on-line electrothermal vaporization [AS-106]**Hale Ceren Yilmaz, *Bodo Hattendorf*, ETH Zurich**Full-metal AFM probes for tip-enhanced Raman spectroscopy [AS-107]**Jacek Szczerbiński, *Renato Zenobi*, ETH Zurich**MALDI-MS for Population Profiling with Single-Cell Resolution [AS-108]**Jasmin Krismer, *Renato Zenobi*, ETH Zurich**Observing gas-phase proton transfer reactions inside the MALDI plume [AS-109]**Mario Francesco Mirabelli, *Renato Zenobi*, ETH Zurich**Quantification of Trace Elements in Brass and Silicate Glasses by Portable Laser Ablation Sampling and Subsequent ICPMS [AS-110]**Peter Velicsanyi, *Detlef Günther*, ETH Zurich**Nucleoside phosphate monitoring in cell cultures using MALDI TOF MS [AS-111]**Robert Steinhoff, *Renato Zenobi*, ETH Zurich**Gap-mode TERS spectra of small organic amides and small peptides: is the amide I mode present? [AS-112]**

Üzeyir Dogan, ETH Zürich

**Novel fluorescence assays for monitoring recombinant proteins during biotechnological production and purification [AS-113]**Enrico Antonino Condemi, *Jean-Manuel Segura*, HES-SO Valais**Defensin Levels in Spider Hemolymph [AS-114]**Alena Krüger, *Stefan Schürch*, University of Bern**Binding of Metallocenes to Short Oligonucleotides [AS-115]**Rahel Eberle, *Stefan Schürch*, University of Bern**Elucidation of the gas-phase structure of a sugar-modified DNA analogue [AS-116]**Yvonne Hari, *Stefan Schürch*, University of Bern**Carbonate-Selective Potentiometric Solid Contact Electrode [AS-118]**Dajing J Yuan, *Eric Bakker*, University of Geneva**Efficient normal phase MS directed purification of natural products at the preparative scale [AS-119]**Davide Righi, *Jean-Luc Wolfender*, University of Geneva**Ion-selective Nanospheres as Heterogeneous Indicator Reagents in Complexometric Titrations [AS-120]**Jingying Zhai, *Eric Bakker*, University of Geneva**Charged Solvatochromic Dyes as Signal Transducers in Fluorescent and Colorimetric Ion Selective Nanosensors [AS-121]**

Xiaojiang Xie, University of Geneva

**Quantifying the detection capabilities of LA-ICPMS [AS-122]**Alex Ulianov, *François Bussy*, University of Lausanne**The ICPMS signal as a doubly stochastic Poisson process [AS-123]**

Alex Ulianov, University of Lausanne

**Online analysis of mass spectra of hydrocarbons [AS-124]**

Luc Patiny, EPF Lausanne

**Lipid droplets and large unilamellar lipid vesicles investigated by asymmetric-flow field-flow fractionation in combination with multi-angle light-scattering [AS-125]**Valerija Vežočnik, University of Ljubljana, *Ema Žagar*, National Institute of Chemistry Slovenia**Native nano-ESI-MS Applied to Fragment Based Drug Discovery. [AS-126]**Agni Gavrilidou, *Renato Zenobi*, ETH Zurich**Unraveling the requirements for immortality – Phenotype characterization of the  $\Delta tlc1$  Type II ALT survivors. [AS-127]**

Alfredo J. Ibanez, ETH Zurich

**UV-fs-LA-ICPMS of  $\text{La}_{0.4}\text{Ca}_{0.6}\text{MnO}_3$  PLD thin Films [AS-128]**Kevin Guex, *Detlef Günther*, ETH Zurich**Dopant-induced conformational changes of proteins in the gas phase evaluated by Transversal Modulation Ion Mobility Spectrometry [AS-129]**Nicole Andrea Meyer, *Renato Zenobi*, ETH Zurich**Comprehensive detection of obstructive sleep apnea in humans and drug monitoring in mice by real-time breath analysis [AS-130]**

Pablo Martinez-Lozano Sinues, ETH Zurich

**Studying the 3-(2-Furoyl)quinoline-2-Carboxaldehyde (FQ) protein labelling reaction to improve accuracy of quantification in capillary electrophoresis-sodium dodecyl sulfate with laser induced fluorescence detection (CE-SDS-LIF) [AS-131]**

Miriam Arrell, HES-SO Valais

**Thin Layer Chemical Modulations by a Combined Selective Proton Pump and pH Probe for Direct Alkalinity Detection [AS-132]**Majid Ghahraman Afshar, *Eric Bakker*, University of Geneva**Ion-exchange nanosphere doped hydro-gel as buffer for electrochemical AS(III) detection in weakly buffered environmental media [AS-133]**Romain Touilloux, *Eric Bakker*, University of Geneva**Ion-selective fluorescent and pH independent nanosensors based on functionalized polyether macrocycles [AS-134]**Zdenka Jarolimová, *Eric Bakker*, University of Geneva**Solve complex and challenging mass spectrometry problems directly from the browser [AS-135]**

Luc Patiny, EPF Lausanne

**Chemical Composition and Biological Activities of Essential Oils Extracted from *Pittosporum Mannii* Hook (*Pittosporaceae*) [AS-136]**  
Souaibou Yaouba, University of Nairobi

**Computational Chemistry [CC]  
Poster Session**

Jury members: Tomasz Wesolowski, University of Geneva, Jiri Vanicek, EPF Lausanne, Matthew Wodrich, EPF Lausanne

**Averaged Molecular Dynamics Trajectories in Frozen-Density Embedding Theory [CC-101]**  
Andrey Laktionov, EPF Lausanne, Tomasz Adam Wesolowski, University of Geneva

**Effect of Mixed Organic Cations on the Phase Stability of Hybrid Organic/Inorganic Lead Perovskites for Solar Cell Applications [CC-102]**  
Ariadni Boziki, Ursula Röthlisberger, EPF Lausanne

**Computational Investigations of a  $\beta$ -Class Carbonic Anhydrase from *Desulfovibrio vulgaris* [CC-103]**  
Esra Bozkurt, Ursula Röthlisberger, EPF Lausanne

**Intramolecular symmetry-adapted perturbation theory - a tool for elucidating the weak intramolecular interactions [CC-104]**  
Ewa Pastorcak, Jérôme Gonthier, EPF Lausanne

**Visualizing and quantifying molecular excited state interactions with scalar fields. [CC-105]**  
Laurent Vannay, Clemence Corminboeuf, EPF Lausanne

**Empirical valence bond simulations of the hydride transfer step in the monoamine oxidase B [CC-106]**  
Matej Repic, EPF Lausanne

**A TD-DFT-based Approach to Describe Electron Dynamics of Molecules in Intense Laser Fields [CC-107]**  
Pablo Lopez Tarifa, Ursula Röthlisberger, EPF Lausanne

**Computational Rationalization of the selectivity of Ru(II) and Os(II) anticancer agents in HIS/HER binding to the histone components of the Nucleosome Core Particle [CC-108]**  
Thibaud von Erlach, Ursula Röthlisberger, EPF Lausanne

**Investigation of the Posttranslational Modifications Expressed in Polyteonamide B by Molecular Dynamics Simulations [CC-109]**  
Annick Renevey, Sereina Riniker, ETH Zurich

**Mechanistic Study of Denitrification in Truncated Hemoglobin using Adiabatic Reactive Molecular Dynamics [CC-110]**  
Akshaya Kumar Das, University of Basel, Markus Meuwly, University of Basel

**Assembly of a diverse 10M GDB Fragment Set [CC-111]**  
Ricardo Visini, Jean-Louis Reymond, University of Bern

**DFT study of the influence of guest-host interactions on the high-spin/low-spin energy difference in  $\text{Co}(\text{bpy})_3^{2+}@Y$  [CC-112]**  
Andrea Missana, Andreas Hauser, University of Geneva

**Accounting for electronic polarization in subsystem DFT calculations [CC-113]**  
Emilie Chalaye-Chemineau, Tomasz Adam Wesolowski, University of Geneva

**Study of Excited State Geometries of Organic Chromophores [CC-114]**  
Marie Humbert-Droz, University of Geneva

**Porphyrin Adsorption on Au(111) Surface: Influence of Herringbone Reconstruction [CC-115]**  
Yeliz Gurdal, University of Zurich

**Exploiting dispersion-driven aggregators as a route to new one-dimensional organic nanowires [CC-116]**  
Adrien Nicolai, Clemence Corminboeuf, EPF Lausanne

**Statistical Averaging over Molecular Dynamics Ensembles in Frozen-Density Embedding Theory [CC-117]**  
Andrey Laktionov, EPF Lausanne, Tomasz Adam Wesolowski, University of Geneva

**Molecular binding mechanism of a potent ruthenium-arene anticancer agent to the nucleosome core particle (NCP) [CC-118]**  
Giulia Palermo, Ursula Röthlisberger, EPF Lausanne

**EVOLVE: a new genetic algorithm toolbox for protein engineering [CC-119]**  
Marta A. S. Perez, Ursula Röthlisberger, EPF Lausanne

**The role of dispersion-correction in the description of metal-ligand bonds in density functional theory [CC-120]**  
Martin Peter Bircher, Ursula Röthlisberger, EPF Lausanne

**The role of  $\text{Mg}^{2+}$  ions in adenylate cyclase [CC-121]**  
Siri Van Keulen, Ursula Röthlisberger, EPF Lausanne

**The reactivity of hypervalent  $\lambda^{3,4}$ -iodanes explored using ab initio (meta-)dynamics [CC-122]**  
Oliver Sala, ETH Zurich

**The new second-generation ETH DMRG program for quantum chemical applications [CC-123]**  
Stefan Knecht, Markus Reiher, ETH Zurich

**Bohmian Mechanics with virtual particles [CC-124]**  
Oliver Thorsten Unke, Markus Meuwly, University of Basel

**A Force Field Approach to Reproduce Grothuss Mechanism in Reactive Systems [CC-125]**  
Zhen-Hao Xu, Markus Meuwly, University of Basel

**New computational approaches for liquids and energy-related compounds [CC-126]**  
Sandra Luber, Jürg Hutter, University of Zurich

**Physical Organic Characterisation of the Molecule-Electrode Contact in Single Molecule Junctions [CC-127]**  
Ganna Grynova, Clemence Corminboeuf, EPF Lausanne

**Multicenter Bonding in Hypervalent  $\lambda^3$ -Iodanes: New Insight from the Analysis of Domain Averaged Fermi Holes [CC-128]**  
Halua Magalhães, ETH Zurich

**Processing Data from Quantum Chemical Calculations using Turbomole-XML-eXist [CC-129]**  
Stefan Heinen, Hans Peter Lüthi, ETH Zurich

**Thermal stability predictions as a tool for inherently safer process design [CC-130]**  
Nadia Baati, Thierry Meyer, EPF Lausanne

**Catalysis Sciences & Engineering [CE]  
Poster Session**

Jury members: S. David Tilley, University of Zürich, Jeremy Luterbacher, EPF Lausanne, Martin Albrect, University of Bern

**Effect of the Pd-state in perovskite-type  $A(\text{B},\text{Pd})\text{O}_{3\pm\delta}$  ( $A = \text{La}, \text{Y}$ ;  $B = \text{Mn}, \text{Fe}, \text{Co}$ ) oxidation catalysts in terms of  $\text{CH}_4$ -oxidation activity [CE-101]**  
Arnim Eyssler, EMPA Dübendorf

**Hydrogen Storage in Formic Acid/Carbon Dioxide Systems - Solvent Effects: Heat of Mixing and pH of the Reaction Media [CE-102]**  
Cornel Fink, Gábor Laurenczy, EPF Lausanne

- Insights into the Ionic Liquid-Promoted Electrochemical Reduction of CO<sub>2</sub> [CE-103]**  
Genevieve Lau, EPF Lausanne
- Ni<sub>2</sub>P nanoparticles as Janus catalyst for electrochemical water splitting [CE-104]**  
Lucas-Alexandre Stern, *Xile Hu*, EPF Lausanne
- Aerogels for CO<sub>2</sub> Capture [CE-105]**  
Marco Roman Holzer, *Andreas Züttel*, EPFL Valais/Wallis
- Selective dehydrogenation of formic acid over sub-nanometric gold particles supported on silica [CE-106]**  
Amaia Beloqui-Redondo, ETH Zürich
- Esterification of 2-Methoxyphenol and Octanoic Acid over modified MCM-41 for Biomass Conversion [CE-107]**  
Bahir Duraki, ETH Zürich
- Simple One-Pot Synthesis of Iridium-Titanium Oxide Composites [CE-108]**  
Emma Oakton, *Christophe Copéret*, ETH Zürich
- Silver-indium catalysts for the electrochemical reduction of carbon dioxide [CE-109]**  
Gastón Larrazábal, *Javier Pérez-Ramírez*, ETH Zürich
- Electrocatalysts for carbon dioxide recycling based on silver-indium materials [CE-110]**  
Gastón O. Larrazábal, *Javier Pérez-Ramírez*, ETH Zürich
- Highly selective basic zeolites for the dehydrogenation of ethanol to acetaldehyde [CE-111]**  
Giacomo Marco Lari, *Javier Pérez-Ramírez*, ETH Zürich
- Stability of tin-containing zeolites in continuous biomass conversions [CE-112]**  
Giacomo Marco Lari, *Javier Pérez-Ramírez*, ETH Zürich
- Structure-performance relationships of hybrid nanocatalysts for selective hydrogenation [CE-113]**  
Gianvito Vilé, *Javier Pérez-Ramírez*, ETH Zürich
- CO activation on Ruthenium Nanoparticles: *Ab Initio* calculations under reaction conditions. [CE-114]**  
Lucas Foppa, *Aleix Comas-Vives*, ETH Zürich
- Impact of defect chemistry in zeolite desilication [CE-115]**  
Marilyne Boltz, *Javier Pérez-Ramírez*, ETH Zürich
- Improving the Oxygen Evolution Kinetics of a Nanostructured Composite Hematite Photoanode [CE-116]**  
Mario Bärtsch, ETH Zürich, *Jan Augustyński*, University of Warsaw
- Dehydrogenation and Polymerization on Cr(III) Silicates Are Rate-Determined by an Analogous Mechanistic Step [CE-117]**  
Murielle F. Delley, *Christophe Copéret*, ETH Zürich
- Improved Solution Finding in Industrial Waste Incineration Scheduling Through Implementation of Multi-Objective Strategies [CE-118]**  
Oliver Weder, *Konrad Hungerbühler*, ETH Zürich
- Handling forecast uncertainty in industrial waste incineration scheduling [CE-119]**  
Ralph Bannerman, *Konrad Hungerbühler*, ETH Zürich
- Towards a general pore connectivity index in hierarchically-organized zeolites by positron annihilation spectroscopy [CE-120]**  
Robbie Warringham, *Javier Pérez-Ramírez*, ETH Zürich
- Integration of Hierarchical Waste Incineration Scheduling Levels for Improved Industrial Performance [CE-121]**  
Samuel Perren, *Konrad Hungerbühler*, ETH Zürich
- Cu Particle Size and Support Effect on CO<sub>2</sub> Hydrogenation to MeOH over Supported Cu Catalysts [CE-122]**  
Shohei Tada, *Christophe Copéret*, ETH Zürich
- Why does the addition of Fe increase the activity and stability of Ni-based dry reforming catalysts: An in-situ XRD and XAS study. [CE-123]**  
Sung Min Kim, *Christophe Copéret*, ETH Zürich
- Atomistic Description of Silica Supported (SiO)W(NAr)(=CHtBu)(OR) Catalysts Through DNP-SENS [CE-124]**  
Ta-Chung Ong, *Christophe Copéret*, ETH Zürich
- Design of mild base catalysts for the deoxygenation of bio-oil by aldol condensation [CE-125]**  
Tobias Keller, *Javier Pérez-Ramírez*, ETH Zürich
- Fast pyrolysis of lignin: Relating the Structure with Product selectivity [CE-126]**  
Victoria Custodis, *Jeroen A. van Bokhoven* ETH Zürich/PSI Villigen
- Novel catalysts for the oxybromination of methane [CE-127]**  
Vladimir Paunovic, *Javier Pérez-Ramírez*, ETH Zürich
- Encapsulated Polarizing Agents for Application in Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy [CE-128]**  
Wei-Chih Liao, *Christophe Copéret*, ETH Zürich
- Opportunities of catalysis for tuning selectivity during lignin catalytic fast pyrolysis [CE-129]**  
Zhiqiang Ma, *Jeroen A. van Bokhoven* ETH Zürich/PSI Villigen
- Electrocatalytic water oxidation with Co<sub>1-x</sub>M<sub>x</sub>NCN metal carbodiimides [CE-130]**  
Rafael Müller, *Greta Ricarda Patzke*, University of Zurich
- Approaches towards heterogenization of Ru(II) half-sandwich catalysts for asymmetric hydrogenation [CE-131]**  
Beáta Vilhanová, Institute of Chemical Technology, Prague, Czech Republic, *Jeroen A. van Bokhoven*, ETH Zürich/PSI Villigen
- Hierarchical Pd/ZSM-5 catalysts for methane oxidation in the presence of steam [CE-132]**  
Andrey W. Petrov, *Jeroen A. van Bokhoven*, PSI Villigen
- Structural analysis of individual Fluid Catalytic Cracking catalyst particle studied by synchrotron-based ptychographic X ray-computed tomography [CE-133]**  
Julio C. da Silva, PSI Villigen, *Jeroen A. van Bokhoven*, ETH Zürich/PSI Villigen
- Exploring the self-regenerating function of perovskite-type oxides on catalytically active nickel [CE-134]**  
Patrick Steiger, PSI Villigen
- Time-resolved measurements of the terahertz conductivity in noble metal-on-TiO<sub>2</sub> nanoparticles for photocatalytic applications [CE-135]**  
Arno Schneider, PSI Villigen, *Jacques-E. Moser*, EPF Lausanne
- Dual-phase Zn-modified ceria nanocrystals: establishing a correlation between the structural characteristics, oxygen storage capacities and catalytic activities [CE-136]**  
Fangjian Lin, PSI Villigen
- From mechanism to catalyst design: Highly active formic acid decomposition catalysts under SCR-relevant conditions [CE-137]**  
Manasa Sridhar, PSI Villigen, *Oliver Kröcher*, PSI Villigen and EPF Lausanne
- In situ X-ray Absorption Spectroscopy of Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2-d</sub> at 1773 K [CE-138]**  
Matthäus Rothensteiner, PSI Villigen, *Jeroen A. van Bokhoven*, ETH Zürich/PSI Villigen

**Investigating the influence of CO and ceria on CH<sub>4</sub> abatement on Pd-based TWC using modulation excitation spectroscopy [CE-139]**

Valentina Marchionni, PSI Villigen

**Tuning reactant selectivity in the direct aldol-Tishchenko reaction using space constraints in multifunctional MOFs [CE-140]**

Xiaoying Xu, PSI Villigen, Jeroen A. van Bokhoven, ETH Zurich/PSI Villigen

**Synthesis of hollow ZSM-5 nano-reactors containing copper-metal oxide nanoparticles [CE-141]**

Jin Hee Lee, PSI, Jeroen A. van Bokhoven, ETH Zurich/PSI Villigen

**Engineering Streptavidin as Scaffold for the Design of Artificial Metalloenzymes [CE-142]**

Hendrik Mallin, Thomas R. Ward, University of Basel

**Towards cheap and sustainable energy sources by exploiting self-organized catalyst micro- and nano structures [CE-143]**

Roche Marcel Walliser, Edwin C. Constable, University of Basel

**Dynamic kinetic resolution of allylic acetates [CE-144]**

Valentin Köhler, University of Basel

**Heterogenization of chiral Ru(II) catalysts on mesoporous silica via the arene ligand [CE-145]**

Jaroslav Aubrecht, University of chemistry and technology, Petr Kačer, Institute of Chemical Technology, Prague, Czech Republic

**Synthesis of highly active ruthenium catalyst for transfer hydrogenation of ketones [CE-146]**

Leoš Kořený, University of Chemistry and Technology, Prague, Petr Kačer, Institute of Chemical Technology, Prague, Czech Republic

**TiO<sub>2</sub> and Ag-doped TiO<sub>2</sub> nanocontainers as photocatalysts for CO<sub>2</sub> reduction [CE-147]**

Nelly Hérault, Katharina Fromm, University of Fribourg

**Metal Center Tuning of Layered Double Hydroxides for Electrochemical Water Oxidation [CE-148]**

Fabio Evangelisti, Greta Ricarda Patzke, University of Zurich

**Doped Manganese Oxides as Water Oxidation Catalysts [CE-149]**

Michael Olah, Greta R. Patzke, University of Zurich

**Optimization of Ceria-Based Materials for Solar Thermochemical Two-Step CO<sub>2</sub>-Splitting [CE-150]**

Roger Jacot, University of Zurich, Aldo Steinfeld, ETH Zurich

**Screening of Lewis Acidic Chlorometallate Ionic Liquids Combined with Nanoparticle Catalysts for Aromatic Hydrogenation Activity [CE-151]**

Alena Karakulina, Paul Joseph Dyson, EPF Lausanne

**Continuous flow synthesis of metal-organic frameworks utilizing microwave irradiation [CE-152]**

Daniel Antti Steitz, ETH Zürich, Jeroen A. van Bokhoven, ETH Zurich/PSI Villigen

**Cationic co-doped TiO<sub>2</sub> nanoparticles as efficient visible-light active photocatalyst: experimental and theoretical study [CE-153]**

Darinka Prime, ETH Zürich

**Design and technical development of iron zeolite catalysts for the gas phase oxidation of glycerol to dihydroxyacetone [CE-154]**

Giacomo Marco Lari, Javier Pérez-Ramírez, ETH Zurich

**Zinc-rich copper catalysts promoted by gold for methanol synthesis [CE-155]**

Oliver Martin, Javier Pérez-Ramírez, ETH Zurich

**Evidence on the direct formation of methane from H<sub>2</sub>O and CO<sub>2</sub> by thermochemical cycles using Ni- and Rh-doped ceria [CE-156]**

Fangjian Lin, PSI Villigen

**Towards stabilization of active methanation catalysts: Effect of boron promotion [CE-157]**

Anastasios Kambolis, Oliver Kröcher, PSI Villigen

**Superior durability of flame-made WO<sub>3</sub>/CeO<sub>x</sub>-TiO<sub>2</sub> DeNO<sub>x</sub> catalysts [CE-158]**

Katarzyna Anna Michalow-Mauke, Oliver Kröcher, PSI Villigen

**Photo-catalytic evolution of dihydrogen from water by Ni@MOF: a nickel catalyst encapsulated inside MIL-125-NH<sub>2</sub> (Ti) [CE-159]**

Kim Meyer, PSI Villigen, Jeroen A. van Bokhoven, ETH Zurich/PSI Villigen

**Metal-support interaction of platinum nanoparticles supported on yttria stabilized zirconia catalysts for environmentally important reaction systems [CE-160]**

Rima J Isaifan, Qatar Environment and Energy Research Institute (QEERI), Elena A Baranova, University of Ottawa

**Inorganic Chemistry [IC]**

**Poster Session**

Jury members: Albert Ruggi, University of Fribourg, Gábor Laurenczy, EPF Lausanne, Anne-Sophie Chauvin, EPF Lausanne

**Homogeneous Catalytic Hydrogen Storage and Release in the Formic Acid-Carbon Dioxide Couple using Ruthenium Pre-Catalysts. [IC-101]**

Antoine van Muyden, Gábor Laurenczy, EPF Lausanne

**Self-sorting of Pd-based coordination cages: the importance of subtle steric effects [IC-102]**

Giacomo Cecot, Kay Severin, EPF Lausanne

**Small Molecule Activation at siloxide "ate" complexes of f elements [IC-103]**

Julie Andrez, EPF Lausanne

**A viable hydrogen storage and release system based on formate and bicarbonate salts: mechanistic insights into the hydrogen release step. [IC-104]**

Katerina Sordakis, Gábor Laurenczy, EPF Lausanne

**Multi-Electron Redox Reactions Promoted by f-Elements Complexes [IC-105]**

Marta Falcone, Marinella Mazzanti, EPF Lausanne

**Carboxylic acid-functionalized clathrochelate complexes as scaffolds for supramolecular metalloligands [IC-106]**

Mathieu Marmier, Kay Severin, EPF Lausanne

**Selective Hydrogen Production from Formic Acid: Development of Homogeneous Iron Catalysts in Aqueous Solution [IC-107]**

Mickael Montandon-Clerc, Gábor Laurenczy, EPF Lausanne

**Supramolecular cages from clathrochelates and stabilized imines [IC-108]**

Suzanne Maria Jansze, Kay Severin, EPF Lausanne

**Nickel Complexes as Catalysts for Silane Dehydrogenation and Hydrogenative Cleavage Reactions of Oligosilanes. [IC-109]**

Bruno Pribanic, Hansjörg Grützmacher, ETH Zurich

**Synthesis of New Polarization Matrices for Dynamic Nuclear Polarization [IC-110]**

Daniel L Silverio, Christophe Copéret, ETH Zurich

**The Mechanism of C-H activation by Transition Metal Siloxides [IC-111]**Deven Paul Estes, *Christophe Copéret*, ETH Zurich**Catalytic Dehydrogenation of Amino Boranes – Formation of Condensed Borazine Compounds [IC-112]**Fabian Müller, *Hansjörg Grützmacher*, ETH Zurich**Cycloaddition Reactions of Diazoalkane Ruthenium Complexes with Chiral PNNP Ligands [IC-113]**Joël Egloff, *Antonio Mezzetti*, ETH Zurich**Synthesis and Application of N-Trifluoromethyl N-Heterocyclic Carbene Ligands and Their Complexes [IC-114]**Pascal Engl, *Antonio Togni*, ETH Zurich**Iron(II) Catalysts with a P-Stereogenic NPPN Ligand for the Enantioselective Strecker Reaction of Azomethine Imines [IC-115]**Raffael Huber, *Antonio Mezzetti*, ETH Zurich**Low temperature synthesis of nickel silicide: from preparing colloidal nanoparticles to coating silicon [IC-116]**Tsung-Han Lin, *Christophe Copéret*, ETH Zurich**Quantitatively Analyzing Metathesis Catalyst Activity and Structural Features in Silica-Supported Tungsten Imido-Alkylidene Complexes [IC-117]**Victor Mougel, *Christophe Copéret*, ETH Zurich**Amorphous Cobalt Silicate Nanobelts@Carbon Composites as Stable Anode Material for Lithium Ion Batteries [IC-118]**

Wei Cheng, ETH Zurich

**High Resolution Powder X-ray Diffraction on Functional Metal-Organic Frameworks with UiO-66 Topology [IC-119]**Marco Taddei, *PSI Villigen, Jeroen Anton van Bokhoven*, ETH Zurich**Synthesizing Functionalized  $[M(\eta^6\text{-arene})_2]^+$  (Re,  $^{99m}\text{Tc}$ ) Complexes for Receptor Targeting [IC-120]**Giuseppe Meola, *Roger Alberto*, University of Zurich**Target Specific Multimodality Nanoparticles for (Nano)Medical Applications [IC-121]**Michel Wuillemin, *Henrik Braband*, University of Zurich**Structural and magnetic investigations of a mononuclear 4f polyoxometalate family with single molecule magnet behaviour [IC-122]**Robin Güttinger, *Pierre-Emmanuel Car*, University of Zurich**Exceptionally long-lived light-emitting electrochemical cells: multiple intra-cation  $\pi$ -stacking interactions in  $[\text{Ir}(\text{C}^{\wedge}\text{N})_2(\text{N}^{\wedge}\text{N})][\text{PF}_6]$  emitters [I] [IC-123]**

Andreas M. M. Bünzli, University of Basel

**Porphyrin-decorated polypyridines for dye sensitized solar cells [IC-124]**Angelo Lanzilotto, *Edwin C. Constable*, University of Basel**Asymmetric copper(I)-based dyes to combine with sterically demanding anchoring ligands for dye-sensitized solar cells. [IC-125]0**Annika Büttner, *Edwin C. Constable*, University of Basel**Going to Extremes: From Fluorine-Free Blue to Stable Red Emitting Iridium Complexes for LEECs [IC-126]**Cathrin D. Ertl, *Edwin C. Constable*, University of Basel**Anionic Ir(III) Complexes for Light-Emitting Electrochemical Cells [IC-127]**Collin D. Morris, *Catherine E. Housecroft*, University of Basel**Influence of a co-adsorbent on the performance of copper(I)-based dye-sensitized solar cells [IC-128]**Frederik J. Malzner, *Edwin C. Constable*, University of Basel**Rhodium-catalyzed Olefin Cyclopropanation by Engineered Streptavidin [IC-129]**Jingming Zhao, *Thomas R. Ward*, University of Basel**Strong, Chemically Robust Photoreductants [IC-130]**Laura A. Büldt, University of Basel, *Oliver S. Wenger*, Basel**Modifying spacers and anchoring groups for heteroleptic Cu(I) - 6,6'-dimethyl-2,2'-bipyridine based DSSCs [IC-131]**Maximilian Klein, *Edwin C. Constable*, University of Basel**Heteroleptic light-emitting copper(I) complexes for possible applications in LECs and OLEDs [IC-132]**Sarah Keller, *Catherine E. Housecroft*, University of Basel**The Performance of a Series of Copper(I) Phenanthroline Dyes in DSCs [IC-133]**Sebastian Olivier Fürer, *Catherine E. Housecroft*, University of Basel**Tuning the in vitro cell cytotoxicity of dinuclear arene ruthenium trithiolato complexes: Influence of the arene ligand [IC-134]**

Lennart Geiser, University of Bern

**Synthesis, reactivity and cytotoxicity of dithiolato diruthenium complexes  $[(\eta^6\text{-}p\text{-cymene})_2\text{Ru}_2(\mu_2\text{-SR})_2\text{X}_2]$ , X = Cl, I [IC-135]**

Lennart Geiser, University of Bern

**Did the presence of a guest in the cavity of an arene ruthenium metallaprism modify its reactivity towards biomolecules? [IC-136]**Lydia Paul, *Julien Furrer*, University of Bern**Synthesis of metal oxide precursors for the generation of oxides or similar nanomaterials for Na-ion battery cathode production [IC-137]**Benoît Baichette, *Katharina Fromm*, University of Fribourg**Stimuli responsive cavitands for triggered release of antimicrobial drugs [IC-138]**Noémie Voutier, *Katharina Fromm*, University of Fribourg**Sn/C composite anode material for lithium ion batteries [IC-139]**Sivarajakumar Maharajan, *Katharina Fromm*, University of Fribourg**Pyridine versus pyrazine in asymmetric didentate ligands: unexpected behaviour in  $\text{Fe}^{\text{II}}$  spin crossover complexes [IC-140]**Timothée Lathion, *Claude Piguet*, University of Geneva**Synthesis of heteroaryl meso substituted porphyrins, and their coordination with ruthenium complexes [IC-141]**Balazs Brem, University of Neuchâtel, *Luminita Silaghi-Dumitrescu, Babes-Bolyai University***Anti-Cancer Activities of Zwitterion-Bridged Arene Ruthenium Metalla-Assemblies [IC-142]**Minghui Yuan, *Bruno Therrien*, University of Neuchâtel**Poly versus Mono-Disperse Rodlike Lipophilic Fluoroacetylacetonate Eu(III) Complexes: Mesomorphic and Thermodynamic Consequences [IC-143]**Sebastiano Guerra, University of Neuchâtel, *Claude Piguet, University of Geneva***Water-soluble organometallic assemblies containing photo-switchable ligands [IC-144]**Thomas Cheminel, *Bruno Therrien*, University of Neuchâtel**Efficient Triplet Blue Emitters Based on Neutral Gold(III) Complexes [IC-145]**Alexander Szentkuti, *Koushik Venkatesan*, University of Zurich**Investigating the structure of the metallothionein 2 protein from the plant *Cicer arietinum* [IC-146]**Alma Salim, *Eva Freisinger*, University of Zurich

- Highly Homoperfluorinated Ionic Liquids for NMR Field Probes for Magnetic Field Monitoring in MRI [IC-147]**  
Anna Christina Looser, *Roger Alberto*, University of Zurich
- Photocatalytic Proton Reduction with Molecular Ru and Co Complexes Immobilized on Hydrophobic Silica [IC-148]**  
Cyril Bachmann, *Roger Alberto*, University of Zurich
- Unique histidine-rich metallothioneins – “cracking the code” [IC-149]**  
Jelena Habjanic, *Eva Freisinger*, University of Zurich
- Tackling the structure of the metal binding domains of a plant metallothionein 3 [IC-150]**  
Jovana Jakovleska, *Eva Freisinger*, University of Zurich
- Characterization of Mg<sup>2+</sup> binding sites in the CPEB3 ribozyme studied by NMR spectroscopy. [IC-151]**  
Kenneth Adea, *Roland K.O. Sigel*, University of Zurich
- Polyoxometalate catalysts for artificial photosynthesis [IC-152]**  
Kim Dimuth von Allmen, *Greta R. Patzke*, University of Zurich
- B<sub>12</sub> derivatives with a modified corrin structure [IC-153]**  
Lucas Prieto, *Felix Zelder*, University of Zurich
- Influence of hetero-biaryl-ligands on the photophysical properties of [Re<sup>I</sup>NCS(CO)<sub>3</sub>diimine]-type photosensitizers. [IC-154]**  
Mathias Lukas Mosberger, *Roger Alberto*, University of Zurich
- Covalently labeling of the *btuB* riboswitch with fluorophores for the studies at the single molecule level [IC-155]**  
Meng Zhao, *Roland K.O. Sigel*, University of Zurich
- N-Heterocyclic Carbenes - Stabilizing Ligands for Various Oxidation States of Rhenium and Technetium [IC-156]**  
Michael Benz, *Henrik Braband*, University of Zurich
- Porphyrin and Phenphyrin Scaffold Revisited: Physico-Chemical Properties and Photocatalysis [IC-157]**  
Stephan Schnidrig, *Roger Alberto*, University of Zurich
- A General Approach of Reduced Graphene Oxide Nanocomposite Aerogels with Multifunctional Electrode Materials towards Advanced Lithium-ion Batteries [IC-158]**  
Guobo Zeng, *Markus Niederberger*, ETH Zurich
- Phosphine oxidation catalyzed by zerovalent cobalt complexes using nitrous oxide as oxidant [IC-159]**  
Thomas Lucien Gianetti, *Hansjörg Grützmacher*, ETH Zurich
- Multitopic precursors for oxide materials' synthesis [IC-160]**  
Alba Finelli, *Katharina M. Fromm*, University of Fribourg
- Stability and reactivity of dinuclear thiolato-bridged arene ruthenium complexes and their interactions with biological ligands [IC-161]**  
David Stibal, *Georg Süß-Fink*, University of Neuchâtel
- Using Oxidative Quenching of a Copper Photosensitizer for Light-Driven Hydrogen Production [IC-162]**  
Johannes Windisch, *Roger Alberto*, University of Zurich
- Peptide Backbone Vitamin B<sub>12</sub> Derivative: a Biomimetic Model [IC-163]**  
Marjorie Sonnay, *Felix Zelder*, University of Zurich

### Medicinal Chemistry & Chemical Biology [MC] Poster Session

Jury members: Leonardo Scapozza, University of Geneva, Cornelia Zumbrunn, Actelion, Christian Heinis, EPF Lausanne, Georg Jaeschke, F. Hoffman-La Roche

- Siglec-8 – A Novel Target For Asthma [MC-101]**  
Blijke Suzanne Kroezen, Basel, *Beat Ernst*, University of Basel
- Chemically defined chromatin and protein engineering via EPL to study histone ubiquitination on the single molecule level [MC-102]**  
Andreas Linus Bachmann, EPF Lausanne
- Engineering of a specific probe for the visualization and analysis of bivalent epigenetic marks in living cells [MC-103]**  
Aurore Delachat, *Beat Fierz*, EPF Lausanne
- The Power of the ‘SCS’: Improving the Pharmacological Properties of Peptide Therapeutics [MC-104]**  
Christopher Kourra, *Nicolai Cramer*, EPF Lausanne
- An “*in vivo*” temperature dependence study of the protoporphyrin IX delayed fluorescence lifetime while measuring the oxygen partial pressure. [MC-105]**  
Emmanuel Louis Arthur Gerelli, *Georges Wagnières*, EPF Lausanne
- HP1 $\alpha$  dynamic binding to different compaction states of chromatin [MC-106]**  
Louise Bryan, *Beat Fierz*, EPF Lausanne
- Tackling Malaria by Inhibiting the SHMT Enzyme [MC-107]**  
Geoffrey Schwertz, *François Diederich*, ETH Zurich
- Investigation of an engineered AaLS-13 capsid and Identification of the encapsulation pathway for GFP (+36) by high mass MALDI MS analysis [MC-108]**  
Katharina Root, *Renato Zenobi*, ETH Zurich
- Fluorine Scan at the Active Sites of Rhodocytin and Human Cathepsin L: Enhanced Binding Affinity by Stacking of Fluorinated Phenyl Rings on Flat Dipeptide Fragments [MC-109]**  
Maude Giroud, *François Diederich*, ETH Zurich
- O<sup>6</sup>-Alkylguanine Post-lesion DNA synthesis by Y-family DNA polymerase  $\zeta$  characterized with synthetic nucleosides [MC-110]**  
Michael Heinrich Rätz, *Shana Sturla*, ETH Zurich
- Structural Characterization of Oligoproline [MC-111]**  
Patrick Wilhelm, *Helma Wennemers*, ETH Zurich
- Cell Penetrating Peptides Based on an Oligoproline Scaffold [MC-112]**  
Philipp Raschle, *Helma Wennemers*, ETH Zurich
- Oligoprolines as Scaffolds for Tumor Targeting with Hybrid Bombesin Analogues [MC-113]**  
Stefanie Dobitz, *Helma Wennemers*, ETH Zurich
- Impact of minor groove alkylation on transcription by RNA polymerase II [MC-114]**  
Stefano Malvezzi, *Shana Sturla*, ETH Zurich
- Novel azobenzene-derived visible light photoswitches for biological applications [MC-115]**  
Zbigniew Pianowski, *Karlsruher Institut für Technologie (KIT)*
- Bacterial Resistance to Silver: The Role of SilE Protein [MC-116]**  
Valentin Chabert, *Katharina Fromm*, University of Fribourg

**The use of phosphorylated peptides to explore the folding properties of the protein tau required for AT8 antibody recognition [MC-117]**

Yves Jacquot, Université Pierre et Marie Curie, Paris, *Guy Lippens, University of Lille 1*

**Pollen induced asthma - could small molecules in pollen exacerbate the protein-mediated allergic response? [MC-118]**

Alen Bozicevic, *Matthias Hamburger, University of Basel*

**Search for alternatives to copper in organic farming: Fungicidal activity of a *Juncus effusus* medulla extract and its active constituent, dehydroeffusol, against downy mildew and apple scab [MC-119]**

Justine Ramseyer, *Matthias Hamburger, University of Basel*

**Natural and semisynthetic antitrypanosomal sesquiterpene lactones from *Anthemis nobilis* [MC-120]**

Maria De Mieri, *Matthias Hamburger, University of Basel*

**Antagonizing Bacterial Adhesion – Hit Identification by a Dynamic Combinatorial Chemistry Approach [MC-121]**

Priska Frei, *Beat Ernst, University of Basel*

**It's better to bend than to break [MC-122]**

Said Rabbani, *Beat Ernst, University of Basel*

**Development of small molecular tools for the cellular study of adenosine A<sub>1</sub> receptors [MC-123]**

Jennifer Hemmings, *Martin Lochner, University of Bern*

**Fluorescent probes for the cellular study of the 5-HT<sub>3A</sub> receptor – synthesis and evaluation of near-infrared probes [MC-124]**

Jonathan Simonin, *Martin Lochner, University of Bern*

**Peptide dendrimer as SiRNA transfection reagent [MC-125]**

Marc Heitz, *Tamis Darbre, University of Bern*

**Excess Electron Transfer in DNA Containing a Pyrenyl Donor and Multiple Stable Phenanthrenyl Base-Surrogates [MC-126]**

Pascal Röthlisberger, *Christian Leumann, University of Bern*

**Antimicrobial Cyclic Peptides with L,D- architecture Targeting *Pseudomonas aeruginosa* [MC-127]**

Runze He, *Jean-Louis Reymond, University of Bern*

**Synthesis of a Geminal Difluorinated Tricyclic Nucleoside Analog [MC-128]**

Sibylle Frei, *Christian Leumann, University of Bern*

**Synthesis of photo-crosslinking probes and their application for the site-selective chemical modification of the 5-HT<sub>3</sub> receptor [MC-129]**

Thomas Jack, *Martin Lochner, University of Bern*

**Design of 3D Protein Fingerprint and its Application to Map the Protein Data Bank [MC-130]**

Xian Jin, *Jean-Louis Reymond, University of Bern*

**QPD-BA, A Precipating Dye For Monitoring Hydrogen Peroxide In Living Cells [MC-131]**

Eric Lindberg, *Nicolas Winssinger, University of Geneva*

**Protein Glycoconjugation by bioorthogonal click chemistry [MC-132]**

Takuya Machida, *Nicolas Winssinger, University of Geneva*

**Platinum-Porphyrin Conjugates as Highly Phototoxic Agents against Human Cancer Cells [MC-133]**

Bernhard Spingler, *University of Zurich*

**RNA internal loop: suitable binding site for metallo-intercalators? [MC-134]**

Elena Alberti, *Daniela Donghi, University of Zurich*

**Secrets of *in vitro* RNA folding and splicing revealed by fluorescent PNA labels [MC-135]**

Ilija Vukadin, *Roland K.O. Sigel, University of Zurich*

**RNA and Oxaliplatin: Investigation of Possible Platinum Binding Sites [MC-136]**

Marianthi Zampakou, *Daniela Donghi, University of Zurich*

**Studies on the mode of action of cationic  $\beta$ -hairpin antibiotics [MC-137]**

Matthias Urfer, *John A. Robinson, University of Zurich*

**Towards *in vivo* splicing of group II intron ai5 $\gamma$  [MC-138]**

Maya Gulotti-Georgieva, *Roland K.O. Sigel, University of Zurich*

**Characterization of group II introns *retrohoming* site at the single molecule level. [MC-139]**

Mokrane Khier, *Roland K.O. Sigel, University of Zurich*

**Correlation between structure and antimicrobial activity of chitosan-alkyl thiomers – a biological study [MC-140]**

Simona Conti, *Greta Ricarda Patzke, University of Zurich*

**Peptide Shuttle System to Deliver PNAs to their Place of Action [MC-141]**

Susann Zelger-Paulus, *Roland K.O. Sigel, University of Zurich*

**Roles of the continuous internal water pathway in G-protein-coupled receptors activations [MC-142]**

Shuguang Yuan, *Actelion Pharmaceuticals Ltd., Horst Vogel, EPF Lausanne*

**Molecular Mechanism of Ruthenium and Gold Anticancer Agents in the Allosteric Regulation of the Nucleosome Core Particle (NCP) [MC-143]**

Giulia Palermo, *Ursula Röthlisberger, EPF Lausanne*

**Bicyclic peptide that selectively inhibits MMP-2 [MC-144]**

Maola Khan, *Christian Heinis, EPF Lausanne*

**Long-Lived States of Pairs of Fluorine-19 Nuclei: a new Tool for Ligand-Protein Screening [MC-145]**

Roberto Buratto, *Geoffrey Bodenhausen, EPF Lausanne*

**Comparison of <sup>18</sup>F-labeled alpha and gamma-conjugated folate derivatives for tumor imaging using positron emission tomography (PET) [MC-146]**

Silvan David Boss, *Simon Mensah Ametamey, ETH Zurich*

**Human Biomonitoring Bridging Gaps between Medicine and Environment [MC-147]**

Basem Shomar, *Qatar Environment and Energy Research Institute (QEERI)*

**Palladium-mediated Suzuki-Miyaura coupling: an efficient method for the formation of therapeutically relevant protein conjugates [MC-148]**

Anaëlle Dumas, *Université Paris-Sud*

**Enzyme catalyzed sulfur-carbon bond formation by ergothioneine biosynthetic sulfoxide synthase [MC-149]**

Kristina Goncharenko, *Florian Seebeck, University of Basel*

**Electrostatic Effect Of Halogenation On The Thermodynamic Stability Of Rapid Insulin Analogs [MC-150]**

Krystel El Hage, *Markus Meuwly, University of Basel*

**Preventing aggregation of porphyrinic photosensitizers using a biodegradable triblock copolymer [MC-151]**

Ilche Gjurroski, *Julien Furrer, University of Bern*

**Why are Vesicles of the Artificial 1,3-Diamidophospholipid Pad-PC-Pad Mechanosensitive? [MC-152]**

Dennis Müller, *Andreas Zumbühl, University of Fribourg*

**Addressing the temporomandibular joint disorder [MC-153]**

Etienne Stalder, *Andreas Zumbühl, University of Fribourg*

**Computer-aided drug design unveils the structural requisites for selective GPBAR1 activation [MC-154]**

Francesco Saverio Di Leva, *University of Naples Federico II*

**NMR investigation of the human RNA BCL2 G-quadruplex: restricting folding dynamics [MC-155]**Alicia Dominguez-Martin, *Roland K. O. Sigel*, University of Zurich**Metal ion dependency and multimerization behavior of biologically relevant human RNA G-quadruplexes [MC-156]**Helena Guiset-Miserachs, *Roland K. O. Sigel*, University of Zurich**Structure - antimicrobial activity relationships of chitosan-alkyl thiomers [MC-157]**Matteo Croce, *Greta Ricarda Patzke*, University of Zurich**Real-time Characterisation of a Large, Catalytic and Dynamic RNA by Single Molecule Microscopy. [MC-158]**Mélodie C.A.S. Hadzic, *Roland K. O. Sigel*, University of Zurich**Pore size matters - A crowding study of ribozyme folding and activity [MC-159]**Richard Börner, *Roland K. O. Sigel*, University of Zurich**The binding mechanism between a B<sub>12</sub>-specific RNA and its ligand coenzyme B<sub>12</sub> [MC-160]**Sofia Gallo, *Roland K. O. Sigel*, University of Zurich**Organic Chemistry [OC]****Poster Session**

Jury members: Martin Lochner, University of Bern, Amalia Poblador Bahamonde, University of Geneva, Jieping Zhu, EPF Lausanne, Jérôme Waser, EPF Lausanne

**1-Alkynyltriazenes as Functional Analogues of Ynamides [OC-101]**Florian Gérald Perrin, *Kay Severin*, EPF Lausanne**Convergent Synthesis of Glycopeptide Dendrimer Biofilm Inhibitors based on the Chloroacetyl-Thioether-Cysteine (ClAc) Ligation [OC-102]**Gaëlle Michaud, *Jean-Louis Reymond*, University of Bern**Mechanism, Optimization and Scope studies of Rh(II) Catalyzed One-Step Multi-Component Macrocyclization Reactions [OC-103]**Daniele Poggiali, *Jérôme Lacour*, University of Geneva**Synthesis and application of tetrafluoroethylation reagents based on hypervalent iodine [OC-104]**Jiri Vaclavik, *Antonio Togni*, ETH Zurich**Synthesis of a Hydrogen-Bonded Quaterthiophene and its Use in Organic Field-Effect Transistors [OC-105]**Bilal Özen, *Holger Frauenrath*, EPF Lausanne**[4+2]-Annulations of Aminocyclobutanes [OC-106]**Daniele Perrotta, *Jérôme Waser*, EPF Lausanne**Synthesis of chiral Ruthenium-cyclopentadienyl complexes and application to formal [4+2] cyclizations of yne-enones [OC-107]**David Kossler, *Nicolai Cramer*, EPF Lausanne**Synthesis, Characterization and Application of Styrene-Functionalized Imidazolium Salts [OC-108]**Felix D. Bobbink, *Paul Dyson*, EPF Lausanne**Rhodium(III)-Catalyzed C-H Activation Rapid Access to Versatile Organic Molecules [OC-109]**Manh Van Pham, *Nicolai Cramer*, EPF Lausanne**Chiral Cyclopentadienyl-Iridium Complexes as Catalysts for Cycloisomerizations of *N*-tethered 1,6-Enynes [OC-110]**Michael Christian Dieckmann, *Nicolai Cramer*, EPF Lausanne**Annulation of strained Rings, a Usefull Tool for the Synthesis of Nucleoside Analogues [OC-111]**Sophie Racine, *Jérôme Waser*, EPF Lausanne**Vicinal Amino Alcohols Synthesis from Allyl Amines via in Situ Tether Formation and Pd-Catalyzed Carboetherification [OC-112]**Ugo Orcel, *Jérôme Waser*, EPF Lausanne**Total Synthesis of (±)-Aspidophylline A [OC-113]**Weiwu Ren, *Jieping Zhu*, EPF Lausanne**Synthesis and Properties of Quinone-Type Push-Pull Chromophores [OC-114]**Cagatay Dengiz, *François Diederich*, ETH Zurich**Stereoselective Organocatalytic Synthesis of Oxindoles with Adjacent Tetrasubstituted Stereocenters [OC-115]**Oliver Dieter Engl, *Helma Wennemers*, ETH Zurich**Synthesis of Tröger's Base Analogues via a Phase-Transfer-Catalyzed Double Aza-Michael Reaction Under Base-Free Conditions [OC-116]**Takuya Kamiyama, *Jan Cvengros*, ETH Zurich**Towards a Short Synthesis of (*R,R,R*)- $\alpha$ -Tocopherol [OC-117]**Thomas Netscher, *F. Hoffmann-La Roche AG***Chiral verdazyl radicals for metal-organic functional assemblies [OC-118]**Mattia Poretti, *Olimpia Mamula-Steiner*, Haute Ecole d'Ingénierie et d'Architecture Fribourg**Hyaluronic Acid-Based Hydrogels for Drug Delivery [OC-119]**Roger Marti, *School of Engineering and Architecture of Fribourg***Efficient Access to Functionalized Cyclobutanone Derivatives Using Cyclobuteniminium Salts as Highly Reactive Michael Acceptors and Dienophiles [OC-120]**Alexandre Lumbroso, *Alain De Mesmaeker*, Syngenta Crop Protection AG**Strigolactam: New potent strigolactone analogues for the germination of Orobanche Cumana [OC-121]**Alexandre Lumbroso, *Alain De Mesmaeker*, Syngenta Crop Protection AG**6 $\pi$ /10 $\pi$ -electrocyclization of ketene-iminium salts for the synthesis of substituted naphthylamines [OC-122]**Amandine Kolleth-Krieger, *Alain De Mesmaeker*, Syngenta Crop Protection AG**Asymmetric synthesis of (+)-GR-24 and the four stereoisomers of (+)-5-deoxystrigol using [2+2]-cycloadditions of ketene-iminiums to olefins [OC-123]**Pierre-Yves Dakas, *Alain De Mesmaeker*, Syngenta Crop Protection AG**Organocatalytic Atroposelective Aldol Condensation [OC-124]**Achim Link, *Christof Sparr*, University of Basel**Total Synthesis of Fidaxomicin [OC-125]**Elias Kaufmann, *Karl Gademann*, University of Basel**Preparation of Fidaxomicin Analogs via Total Synthesis [OC-126]**Hiromu Hattori, *Karl Gademann*, University of Basel**Setting the Hook for Specific Single Walled Carbon Nanotubes [OC-127]**Ina Bodoky, *Marcel Mayor*, University of Basel**Direct preparation of pyrrolizidines using imines and isonitriles [OC-128]**Isabel Patrizia Kerschgens, *Karl Gademann*, University of Basel



**Chemical modification of peptide and proteins for UV postionization and quantum interference experiments [OC-129]**

jonas schaeetti, *Valentin Köhler*, University of Basel

**Towards a Perylene-Based Cyclophane with Charge-Transfer Capability [OC-130]**

Kevin Weiland, *Marcel Mayor*, University of Basel

**Synthesis of a Diacetylene-Bridged Geländer-Type Oligomer [OC-131]**

Linda Maria Bannwart, *Marcel Mayor*, University of Basel

**Synthesis of an Unknown Tetracyclic Derivative of Norbornane [OC-132]**

Lorenzo Delarue Bizzini, *Marcel Mayor*, University of Basel

**Molecules in Gasphase: Synthesis of Multi-Porphyrin-Systems for Quantum Interference Experiments [OC-133]**

Lukas Felix, *Marcel Mayor*, University of Basel

**Rotational restricted and functionalized CBP derivatives for blue emitting OLEDs [OC-134]**

Manuel Hellstern, *Marcel Mayor*, University of Basel

**Total synthesis of Aeruginosin 828A [OC-135]**

Manuel Scherer, *Karl Gademann*, University of Basel

**Radical Cyclizations involving Aryl Azides as Radical Traps [OC-136]**

Benjamin Wyler, *Philippe Renaud*, University of Bern

**Lipid Linked Oligosaccharide (LLO) Analogues as Bacterial Oligosaccharyltransferase (OST) PglB Substrates [OC-137]**

Jérémy Boilevin, *Jean-Louis Reymond*, University of Bern

**Synthesis of Nitrogen-Containing Macrocycles via  $\alpha$ -Imino Diazo Intermediates [OC-138]**

Alejandro Guarnieri Ibáñez, *Jérôme Lacour*, University of Geneva

**Enantiospecific C-H Azidation and ensuing functionalization of Tröger Bases [OC-139]**

Alessandro Bosmani, *Jérôme Lacour*, University of Geneva

**A Series of Novel Redox Gradient Fullerenes in Triple-Channel Photosystems [OC-140]**

Altan Bolag, *Stefan Matile*, University of Geneva

**The Anion- $\pi$  Interaction: A Tuneable Non-Covalent Interaction for Catalysis [OC-141]**

François Nicolas Miros, *Stefan Matile*, University of Geneva

**Twisted Push-Pull Fluorophores as Mechanosensitive Probes [OC-142]**

Saeideh Soleimanpour, *Stefan Matile*, University of Geneva

**Arylamine Tribenzopentaphenes: Versatile Synthesis and study of their Hole Mobility [OC-143]**

Andrew H. Rice, University of Washington, Seattle, USA

**Route to the controlled formation of prostaglandin double bonds [OC-144]**

Katalin Molnár, BME Szerves Kémia és Technológia Tanszék

**Towards a Total Synthesis of Fijiolide A [OC-145]**

Christoph Heinz, *Nicolai Cramer*, EPF Lausanne

**Molecular and Polymeric Nanostructures Based on a Novel AAA-DDD Triple Hydrogen Bonding Motif [OC-146]**

Marcus Pappmeyer, *Kay Severin*, EPF Lausanne

**Revisiting the Suzuki Coupling Based on Volcano Plots and Linear Scaling Relations [OC-147]**

Michael Busch, *Clemence Corminboeuf*, EPF Lausanne

**Suzuki-Miyaura Cross-Coupling Reactions of Unactivated Alkyl Halides Catalyzed by a Nickel Pincer Complex [OC-148]**

Thomas Di Franco, *Xile Hu*, EPF Lausanne

**Towards the Total Synthesis of the 3-Acyltetramic Acid Antibiotics Bu-2313A/B [OC-149]**

Claudio Bomio, *Karl-Heinz Altmann*, ETH Zurich

**KAT ligation for 3D control in hydrogels using 2-photon microscopy [OC-150]**

Dmitry Mazunin, *Marcy Zenobi-Wong*, ETH Zurich

**Towards the Total Synthesis of Acalycixeniolide F [OC-151]**

Leo Betschart, *Karl-Heinz Altmann*, ETH Zurich

**Functional Cumulene-Based Molecular Materials [OC-152]**

Przemyslaw Gawel, *François Diederich*, ETH Zurich

**Synthesis, Characterization and Application of an Ethano-Tröger's Base Derived Electrophilic Fluorinating Reagent [OC-153]**

Raul Pereira, ETH Zurich, *Veronique Gouverneur*, University of Oxford

**Cyanomethylation of aryl halides by domino Suzuki/fragmentation reaction [OC-154]**

Juraj Velcicky, Novartis Pharma AG

**Stabilization of Non-Kekulé Triangulene [OC-156]**

Michal Juricek, University of Basel

**Multi-Catalyst Screening for the Asymmetric Morita-Baylis-Hillman Reaction by Mass Spectrometric Monitoring of the Back Reaction [OC-157]**

Patrick Isenegger, *Andreas Pfaltz*, University of Basel

**Helically Chiral Biradicaloid Polycyclic Aromatic Hydrocarbon [OC-158]**

Prince Ravat, University of Basel

**Concentration Controlled Synthesis of Molecular Daisy Chains – Towards [c2]Daisy Chains as Functional Materials [OC-159]**

Sylvie Drayss-Orth, *Marcel Mayor*, University of Basel

**Modular Synthesis, Functionalization and resolution of Cationic [6]HELICENES [OC-160]**

Geraldine Labrador, *Jérôme Lacour*, University of Geneva

**Online swiss army knife for organic chemists [OC-161]**

Luc Patiny, EPF Lausanne

**Structure Refinement of a  $\beta$ -Heptapeptide Using RDCs Measured in a Stretched PVA Gel in Methanol [OC-162]**

Carla Rigling, *Marc-Olivier Ebert*, ETH Zurich

**Peptide-Catalyzed Stereoselective Conjugate Addition Reactions of Aldehydes to Maleimides [OC-163]**

Claudio Grünenfelder, *Helma Wennemers*, ETH Zurich

**Enantioselective Aldol Reactions with Fluoromalonyl Halfthioesters as Masked Fluoroacetates [OC-164]**

Jakub Saadi, *Helma Wennemers*, ETH Zurich

## Physical Chemistry [PC]

### Poster Session

Jury members: Hans Jakob Wörner, ETH Zürich, Marcel Drabbels, EPF Lausanne, Samuel Leutwyler, University of Bern

**A dive into the Cytochrome *b<sub>L</sub>* complex via ultrafast spectroscopy. [PC-101]**

Adrien Chauvet, *Majed Chergui*, EPF Lausanne

**Revealing conformers of protonated tryptophan by IR-IR-UV triple resonance spectroscopy of cold ions. [PC-102]**

Aleksandr Y Pereverzev, EPF Lausanne

**Bond-selective chemisorption of methane isotopologues on Pt(111) [PC-103]**

Ana Gutiérrez-González, *Rainer Beck*, EPF Lausanne

- Ultrafast Electro-modulated Differential Absorption Spectroscopy of Methylammonium Lead Iodide Perovskite Thin Films: Evidence for Carriers Trapping and Accumulation at the Surface [PC-104]**  
Arun Aby Paraecattil, *Jacques-E. Moser*, EPF Lausanne
- Cold ion spectroscopy reveals the exact structure of protonated helical peptides in the gas-phase. [PC-105]**  
Chiara Masellis, *Thomas R Rizzo*, EPF Lausanne
- Femtosecond transient absorption spectroscopy of CsPbX<sub>3</sub> perovskite nanoparticles [PC-106]**  
F. G. Santomauro, *Majed Chergui*, EPF Lausanne
- Photoinduced charge transfer mechanism in Diketopyrrolopyrrole(DPP) dye-sensitized solar cell [PC-107]**  
Heewon Bahng, EPF Lausanne
- Spectroscopic studies of kinetically trapped conformations in the gas phase: the case of triply protonated bradykinin [PC-108]**  
Liudmila Voronina, *Thomas R Rizzo*, EPF Lausanne
- State-to-state scattering of CH<sub>4</sub>(v<sub>3</sub>) from Ni(111) and LiF(100) surfaces. [PC-109]**  
Maarten van Reijzen, *Rainer Beck*, EPF Lausanne
- Infrared spectroscopy of mobility-selected H<sup>+</sup>-Gly-Pro-Gly-Gly (GPGG) [PC-110]**  
Michael Z Kamrath, *Thomas R Rizzo*, EPF Lausanne
- Electronic energy transfer in model peptides [PC-111]**  
Valeriu Scutelnic, *Thomas R. Rizzo*, EPF Lausanne
- Pushing the limits of cold ion spectroscopy: structural characterization of protonated ubiquitin in the gas phase [PC-112]**  
Vladimir Kopysov, *Oleg V Boyarkin*, EPF Lausanne
- Photoassociation of cesium atoms upon Rydberg excitation in a dense ultracold gas [PC-113]**  
Heiner Saßmannshausen, *Frédéric Merkt*, ETH Zurich
- Precision Spectroscopy in Cold Molecules: The First Rotational Intervals of He<sup>+</sup><sub>2</sub> by High-Resolution Spectroscopy and Rydberg-Series Extrapolation [PC-114]**  
Luca Semeria, *Frédéric Merkt*, ETH Zurich
- Continuous trap loading of Rydberg-Stark decelerated metastable helium using overlaid electric and magnetic traps [PC-115]**  
Matija Zesko, *Frédéric Merkt*, ETH Zurich
- MQDT-assisted high-resolution spectroscopy of the Rydberg states of H<sub>2</sub> - ionization energy of H<sub>2</sub> and rovibrational structure of H<sub>2</sub><sup>+</sup> [PC-116]**  
Maximilian Beyer, *Frédéric Merkt*, ETH Zurich
- High-Resolution VUV-Absorption Spectroscopy using Phase Modulation [PC-117]**  
U. Hollenstein, *Frédéric Merkt*, ETH Zürich
- Mapping the electronic states of small transition metal clusters by nonlinear spectroscopy [PC-118]**  
Martin Beck, *Peter Pal Radi*, PSI Villigen
- Dissociation dynamics of dissolved CH<sub>3</sub>I studied with time-resolved resonant inelastic X-ray scattering [PC-119]**  
Rok Bohinc, PSI Villigen
- Femtosecond Time-resolved Spectroscopy in the Extreme Ultraviolet Spectral Range [PC-120]**  
Jakob Grilj, Stanford University School of Medicine, *Majed Chergui*, EPF Lausanne
- Quantum-Logic Spectroscopy for Single Trapped Molecular Ions [PC-121]**  
Gregor Hegi, *Stefan Willitsch*, University of Basel
- Towards hybrid trapping of cold molecules and cold molecular ions [PC-122]**  
Dominik Haas, *Stefan Willitsch*, University of Basel
- Cold Ion-Neutral Reactions in Next-Generation Ion-Atom Hybrid Traps [PC-123]**  
Pascal Eberle, *Stefan Willitsch*, University of Basel
- Ionic Liquids based on crown ether as electrolytes for batteries [PC-124]**  
Hervé YAO, *Katharina M. Fromm*, University of Fribourg
- Electrons and ionic liquids - a novel approach to study electron scattering from nonvolatile compounds [PC-125]**  
Khrystyna Regeta, *Michael Allan*, University of Fribourg
- Ligand exchange reactions with Palladium, Platinum doped Au<sub>25</sub>(SR)<sub>18</sub> clusters [PC-126]**  
Annelies Sels, *Thomas Bürgi*, University of Geneva
- Tracking Solvent Controlled Photoinduced Electron Transfer Using Broadband Fluorescence Up-Conversion [PC-127]**  
Arnulf Rosspeintner, *Eric Vauthey* University of Geneva
- Ligand exchange reaction of chiral Pd<sub>2</sub>Au<sub>36</sub>(SR)<sub>24</sub> cluster [PC-128]**  
Bei Zhang, *Thomas Bürgi*, University of Geneva
- Chiral Recognition in Bimolecular Photoinduced Electron Transfer [PC-129]**  
Christoph Nançoz, *Eric Vauthey*, University of Geneva
- Excited-state dynamics of radical ions [PC-130]**  
Joseph Samuel Beckwith, *Eric Vauthey*, University of Geneva
- Separation of chemical shifts and J-couplings using homodecoupled-DIAG spectra [PC-131]**  
Marta Brucka, *Damien Jeannerat*, University of Geneva
- Ultrafast Intersystem-crossing Dynamics and Breakdown of the Kasha-Vavilov's Rule of Naphthalenediimides [PC-132]**  
Oleksandr Yushchenko, *Eric Vauthey*, University of Geneva
- Time Resolved infrared spectroscopy of Ruthenium(II) tris-bipyridyl complexes [PC-133]**  
Qinchao Sun, *Andreas Hauser*, University of Geneva
- Structural investigation of the HS to LS relaxation dynamics on the porous coordination network [Fe(pz)Pt(CN)<sub>4</sub>·xH<sub>2</sub>O [PC-134]**  
Teresa Delgado, *Andreas Hauser*, University of Geneva
- Marangoni flow driven maze solving [PC-135]**  
Rita Toth, EMPA
- Identification of Gas-Phase-Active Reactive Intermediates in Thermal Decomposition of Organophosphorus Compounds [PC-136]**  
Shuyu Liang, EMPA, *Hansjörg Grützmacher*, ETH Zurich
- Exact versus approximate methods for nonadiabatic quantum molecular dynamics induced by the interaction with the electromagnetic field [PC-137]**  
Aurélien Patoz, *Jiri Vanicek*, EPF Lausanne
- Hyperpolarized *para*-ethanol [PC-138]**  
Daniele Mammoli, *Geoffrey Bodenhausen*, EPF Lausanne
- Excitonic Effects and Optical Spectra of Single Walled Carbon Nanotubes for Biosensor Applications in Life Sciences and Medicine [PC-139]**  
Dejan M Djokic, *Ardemis A. Boghossian*, EPF Lausanne
- Studying Xe Migration in Truncated Hemoglobin with Molecular Dynamics Simulations [PC-140]**  
Polydefkis Diamantis, EPF Lausanne, *Markus Meuwly*, University of Basel

**Tunneling in molecules probed by high-resolution photoelectron spectroscopy [PC-141]**Katrin Dulitz, *Frédéric Merkt*, ETH Zurich**Spectroscopy of Rydberg Helium in Electric and Magnetic Fields [PC-142]**Ondřej Tkáč, *Frédéric Merkt*, ETH Zurich**Kinetics of platinum oxidation [PC-143]**Urs Hartfelder, *Jeroen Anton van Bokhoven*, ETH Zurich**Single walled Carbon nanotubes-based composites for hybrid organic photovoltaic application [PC-144]**

Brahim Aïssa, Qatar Environment and Energy Research Institute (QEERI)

**Gas-phase Microsolvation of an Adenine Analogue [PC-145]**Luca Siffert, *Samuel Leutwyler*, University of Bern**Jet-Cooled UV-Spectra and Nonradiative Relaxation Dynamics of N1-Substituted Cytosines [PC-146]**Maria A. Trachsel, *Samuel Leutwyler*, University of Bern**Unusually long-lived transient negative ion of c-C<sub>4</sub>F<sub>8</sub>O formed by electron impact ionisation [PC-147]**

Radmila Janeckova, University of Fribourg

**Directional Energy Migration in Nanoparticles of Crystalline Transition Metal Complexes [PC-148]**

Elia Previtera, University of Geneva

**Nanoparticle – polyelectrolyte composites: Enhanced IR absorption and electron transfer upon visible light illumination [PC-149]**Harekrishna Ghosh, *Thomas Bürgi*, University of Geneva**Concentration dependent kinetic model of the energy transfer of Eu<sup>2+</sup> in SrAl<sub>2</sub>O<sub>4</sub> including thermal quenching processes [PC-150]**Jakob Bierwagen, *Hans Hagemann*, University of Geneva**Gold nanowire fabrication with lipid nanotubes [PC-151]**Kristina Jajcevic, *Kaori Sugihara*, University of Geneva**Raman optical Activity of chiral (6,5) Single Walled Carbon Nanotubes [PC-152]**Martin Magg, University of Geneva, *Bruce R. Weisman*, Rice University**Development of membrane mechanosensors with characterization in giant unilamellar vesicles. [PC-153]**Roberto Diego Ortuso, *Kaori Sugihara*, University of Geneva**Charge transfer processes in a molecular pentad [PC-154]**Margherita Oraziotti, *Peter Hamm*, University of Zurich**Polymers, Colloids & Interfaces [PCI]**  
**Poster Session**

Jury members: Stephen Schrettl, EPF Lausanne, Dorina Opris, EMPA, Samuel Jones, EPF Lausanne

**Transport of calcium ions through thick biomimetic polymer membranes [PCI-101]**Mihai Lomora, *Cornelia Gabriela Palivan*, University of Basel**Amphiphilic Hexayne Derivatives as Precursors for Atomically Dense Carbon Nanolayers [PCI-102]**Bjoern Schulte, *Holger Frauenrath*, EPF Lausanne**Development of functionalized hybrid hydrogels [PCI-103]**Francois Noverraz, *Sandrine Gerber*, EPF Lausanne**Supramolecular organogels based on boronate esters and imidazolyl ligands [PCI-104]**Nicolas Luisier, *Kay Severin*, EPF Lausanne**PEGylation of sodium alginate for tuning the properties of hydrogel microspheres [PCI-105]**Solène Passemard, *Sandrine Gerber*, EPF Lausanne**Light-Induced Fragrance Release from Microcapsules Containing 2-Oxoacetates [PCI-106]**

Andreas Herrmann, Firmenich SA

**Effect of Reactive Extrusion on the Morphology of Polymer Nanocomposites [PCI-107]**

Shirin Shokoohi, Research Institute of Petroleum Industry

**An investigation into thermal analysis methods of detection and quantification of oxidative degradation of PVC-coated constructional steel. [PCI-108]**

Rachel Louise Alexander, Swansea University UK

**Structural characteristics of amyloid-like fibers issued from a human estrogen receptor  $\alpha$ -derived peptide [PCI-109]**

Yves Jacquot, Université Pierre et Marie Curie, Paris

**H-Bonded Supramolecular Polymers Selectively Dispersing and Subsequent Releasing Single-Walled Carbon Nanotubes [PCI-110]**Guojun Ke, *Marcel Mayor*, University of Basel**Synthetic biocompartments with selective membrane permeability towards protons and monovalent cations [PCI-111]**Mihai Lomora, *Cornelia Gabriela Palivan*, University of Basel**Development of triggered nanoreactor platforms [PCI-112]**Tomaz Einfalt, *Cornelia Gabriela Palivan*, University of Basel**Phenanthrene Nanotubes [PCI-113]**Caroline D. Bösch, *Robert Häner*, University of Bern**The formation of large assemblies through single, non-covalently attached pyrene phosphates [PCI-114]**Markus Probst, *Robert Häner*, University of Bern**Hierarchical self-assembly of the DNA-grafted supramolecular polymers [PCI-115]**Yuliia Vyborna, *Robert Häner*, University of Bern**Pt<sup>0</sup> containing metallosupramolecular polymers [PCI-116]**Luis Miguel Olachea, *Christoph Weder*, University of Fribourg**Incorporation of dithiomaleimide as mechanophores into polymers chain. [PCI-117]**Marc Karman, *Christoph Weder*, University of Fribourg**Side reactions in polycondensation of aromatic amino acids [PCI-118]**Michael Badoux, *Andreas Kilbinger*, University of Fribourg**Synthesis of polymer-silver nanocomposites for biomedical applications [PCI-119]**Milene Tan, *Katharina Fromm*, University of Fribourg**Design of Ag@SiO<sub>2</sub> nanorattles for antimicrobial implant coatings [PCI-120]**Sarah-Luise Abram, *Katharina Fromm*, University of Fribourg**DNA complexation effect on a cyanine probe studied at liquid/water interfaces by SSHG [PCI-121]**Giuseppe Leonardo Licari, *Eric Vauthey*, University of Geneva**Large-scale self-assembled gold nanoparticle arrays and plasmonic-enhanced fluorescence [PCI-122]**Mahshid Chekini, *Thomas Bürgi*, University of Geneva**Dispersion stability of layered double hydroxide particles in the presence of polyelectrolytes [PCI-123]**

Marko Pavlovic, University of Geneva

**Inverse Schulze-Hardy Rule [PCI-124]**Tianchi Cao, *Michal Borkovec*, University of Geneva

**Improved fiber diameter determination of nanofibers through image analysis using a hierarchical scaling approach. [PCI-125]**

Fabian Deuber, *Christian Adlhart*, Zurich University of Applied Sciences, ZHAW

**Tuning the size and aspect ratio of arrays of silica nanochannels [PCI-126]**

Nicola Zucchetto, *Dominik Brühwiler*, Zurich University of Applied Sciences, ZHAW

**Surface Activity of Nanoparticle Suspensions at Interfaces [PCI-127]**

Yong Zen Tan, *Andrei Honciuc*, Zurich University of Applied Sciences, ZHAW

**Ellipsoid-Shaped Superparamagnetic Nanoclusters through Emulsion Electrospinning [PCI-128]**

Markus B. Bannwarth, EMPA

**Long-lived charge carriers in organic Nanowires [PCI-129]**

Regina Judith Hafner, *Holger Frauenrath*, EPF Lausanne

**Porous nitrogen-doped carbon materials generated from fractal gels for CO<sub>2</sub> capture [PCI-130]**

Anna Beltzung, *Massimo Morbidelli*, ETH Zurich

**Synthesis and characterization of homologous (non-)interacting (hybrid) dendronized polymers with tunable bulk properties [PCI-131]**

Leon F. Scherz, *A. Dieter Schlüter*, ETH Zurich

**Nanocrystals of Cesium Lead Halide Perovskites (CsPbX<sub>3</sub>, X=Cl, Br, and I) Showing Bright Emission with Wide Color Gamut [PCI-132]**

Loredana Protesescu, *Maksym Kovalenko*, ETH Zurich

**Controlled synthesis and functionalization of AuTTF micro- and nanowire sensors [PCI-133]**

Mario Lenz, *Petra Dittrich*, ETH Zurich

**Insight into how vesicles control the course of a laccase – catalysed oligomerization reaction [PCI-134]**

Sandra Luginbühl, *Peter Walde*, ETH Zurich

**Stability of radiation grafted polymer electrolyte membranes for water electrolysis cells [PCI-135]**

Albert Albert, PSI Villigen

**Chemical functionalization of nanocelluloses: a route to functional materials [PCI-136]**

Philippe Tingaut, EMPA

**Intact flying nanoparticles for gas-phase investigations [PCI-137]**

Almudena Gallego, University of Basel, *Markus Arndt*, University of Vienna

**Surfactant-Free Polarity Tuned Polymeric Nanoparticles Prepared by Ultrasonic Emulsion-Polymerization [PCI-138]**

Dalin Wu, University of Basel, *Andrei Honciuc*, Zurich University of Applied Sciences, ZHAW

**Janus Dumbbells: A flexible template for colloidal chemistry [PCI-139]**

Florian Guignard, *Marco Lattuada*, University of Fribourg

**Stimuli-responsive azo-containing polymeric materials [PCI-140]**

Mathieu André Ayer, *Christoph Weder*, University of Fribourg

**ATRPases: Controlling Radical Polymerizations with Enzymes [PCI-141]**

Nico Bruns, University of Fribourg

**Cholesterol Interactions with an Artificial Phospholipid [PCI-142]**

Radu Tanasescu, *Andreas Zumbühl*, University of Fribourg

**Amyloid Fibrils as reinforcement filler of polymeric nanocomposite materials [PCI-143]**

Simonetta Rima, *Marco Lattuada*, University of Fribourg

**Development of cell membrane mechanosensor for quantitative force detection of peptides [PCI-144]**

Jiri Kulhavy, *Kaori Sugihara*, University of Geneva

**Characterization of voltage sensitive dyes with free-standing lipid bilayers [PCI-145]**

Maria Tsemperouli, *Kaori Sugihara*, University of Geneva

**Ionic liquids and ion-specific effects in particle aggregation: an experimental study beyond the Hofmeister series [PCI-146]**

Tamas Oncsik, *Michal Borkovec*, University of Geneva

**Tuning the nanostructure and the properties of silica surfaces by heat treatment [PCI-147]**

Valentina Valmacco, *Michal Borkovec*, University of Geneva

**Enhancing the Rheological Properties of a Sulfobetaine using a Cationic Surfactant [PCI-148]**

Shirin Shokoohi, Research Institute of Petroleum Industry

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