SCS Fall Meeting 2023, Poster Sessions

Poster Presentation Title [Code]
First line = Presenting Author
Second line = Coauthors

Analytical Sciences [AS] Poster Session

Optimal sensitivity regime for ^{1}H detected relayed DNP [AS-101]
Saumya Badoni, EPFL Lausanne
P. Berruyer, L. Emsley

N Spectroelectrochemical Investigation of the Nitrogenase-like Dark Operative Protochlorophyllide Oxidoreductase (DPOR) [AS-102]
Giada Bedendi, University of Geneva
A. Kulkarni, P. Maroni, R. D. Milton

N-doping Graphene at Ambient Conditions with N_2-DBD-Plasma and the role of neutral species [AS-103]
Alina Begley, ETH Zurich
G. Bartolomeo, D. Abbott, V. Mougel, R. Zenboi

Oxygen Isotope Analysis of Phosphate by Electrospray Orbitrap Mass Spectrometry for Assessing the Microbial Metabolism in the Environment [AS-104]
Nora Bernet, Eawag Dübendorf & ETH Zurich
C. A. Soldini, K. Kantnerová, C. Neubauer, F. Tamburini, T. B. Hofstetter

Nanoscale chemical analysis of Sb_2Se_3 solar cell using tip-enhanced Raman spectroscopy [AS-105]
Siiri Bienz, ETH Zurich
G. Spaggiari, D. Bersani, D. Calestani, G. Trevisi, N. Kumar, R. Zenobi

Broadband APT (BAPT): a Versatile APT Experiment with Improved *J*-Compensation and Optimal Suppression of Artifacts in C_q-only Spectra [AS-106]
Peter Bigler, University of Bern
D. Chakif, I. Gjuroski, J. Furrer

An electrochemical approach for routine radioanalytical separations [AS-107]
Paul Dutheil, Paul Scherrer Institut, Villigen
M. Heule, H. Dominik, P. Steinegger, N. Walter, S. Mayer

Examination of Sampling Bags for Offline Breath Analysis using Secondary Electrospray Ionization (SESI) Mass Spectrometry [AS-108]
Mateusz Fido, ETH Zurich
S. Giannoukos, R. Zenobi

Can exhaled breath metabolomics replace rumen sampling in dairy cows? [AS-109]
Stamatios Giannoukos, ETH Zurich
Z. Islam, S. Räisänen, A. Schudel, F. Wahl, R. Zenobi, M. Niu

Achieving Data Reduction in Space by Applying Unsupervised Machine Learning to Mass Spectrometric Data [AS-110]
Salome Gruchola, University of Bern
M. Tulej, P. Keresztes Schmidt, N. J. Boeren, L. N. Knecht, A. Riedo, P. Wurz

Examining the Structure-Function Relationship of Enzymes using Temperature-Controlled Nanoelectrospray Mass Spectrometry [AS-111]
Julian Harrison, ETH Zurich
A. Pruška, R. Zenobi

Nuclear Forensic Investigations of High Purity Depleted Uranium Ammunition [AS-112]
Michael Hofstetter, ETH Zurich
S. Röllin, P. Steinegger

Quantifying Total Mercury in Plankton by Cold Vapor Atomic Fluorescence Spectroscopy: Simple and Efficient Acid Digestion Procedure [AS-113]
João Santos, University of Geneva
L. Mehmeti, V. I. Slaveykova

Additive Electrochemical Oxidation of Ascorbic Acid and Glucose in Enzyme Based Blood Electrochemical Meters [AS-114]
Ritik Singhal, International School of Basel
K. Ravuri

Hyphenated MS-Methods as a Tool for Orthogonal Metabolite Annotation in On-Line Breath Analysis with SESI-HRMS [AS-115]
Albin Vadakkechira, ETH Zurich
C. Wüthrich, P. Fuchsmann, G. Vergères, R. Zenobi, S. Giannoukos

Development of an NMR Method for the Quantification of Phthalimidoperoxycaproic acid (PAP) in Tooth Whitening Products [AS-116]
Diego Zenhäusern, University of Bern
C. Melendez, J. Furrer, P. Vermathen, M. Vermathen

Computational Chemistry [CC] Poster Session

Computational Study of the Mechanical Properties of Epoxy Resins and Carbon Nanotubes Doped with SiO_2 Nanoparticles [CC-101]
Alejandro Bastos R., Central University of Venezuela
J. G. Parra, R. Hernández, J. Castillo, V. Mujica

Molecular Hypergraph Neural Network [CC-102]
Junwu Chen, EPFL Lausanne

A machine learning-based QSAR approach to predict biological removal of organic micropollutants during wastewater treatment [CC-103]
Jose Cordero, Eawag Dübendorf
K. Fenner

Perturbatively corrected ring-polymer instanton theory for accurate tunneling splittings [CC-104]
Jindřich Dušek, ETH Zurich
J. E. Lawrence, J. O. Richardson

Insights into the nature of host-guest interactions in emergent framework materials [CC-105]
Michelle Ernst, University of Zurich
G. Gryn'ova

Mirrors and reaction rates: how "quantum" is vibrational polariton chemistry? [CC-106]
Marit Fiechter, ETH Zurich
J. E. Runeson, J. E. Lawrence, J. O. Richardson

Redox-Based Defect Detection in Packed DNA: Insights from Hybrid Quantum Mechanical/Molecular Mechanics Molecular Dynamics and Feature Selection Studies [CC-107]
Sophia Johnson, EPFL Lausanne
M. Kılıç, P. Diamantis, O. Toth, U. Rothlisberger

Tunnelling in Complex Molecular Systems: Bridging Theory and Experiment [CC-108]
Gabriel Laude, ETH Zurich
J. O. Richardson

Explicit treatment of the time-dependent electromagnetic excitation in the nonadiabatic quantum dynamics in the adiabatic basis [CC-109]
Yebin Lee, EPFL Lausanne
J. Vaníček

Efficient high-order symplectic integrators for the variational Gaussian wavepacket dynamics [CC-110]
Roya Moghaddasi Fereidani, EPFL Lausanne
J. Vaníček

Autonomous Active Space Calculations throug AutoCAS [CC-111]
Maximilian Mörchen, ETH Zurich
M. Reiher

Encoding Stereochemistry in Molecular Fingerprints [CC-112]
Markus Orsi, University of Bern
D. Probst, J. Reymond

Automated Reaction Network Exploration of Ozonation Processes in Water Treatment [CC-113]
Enric Petrus, Eawag Dübendorf
J. P. Unsleber, T. Weymuth, M. Reiher, U. von Gunten, T. B. Hofstetter

Data-Driven Discovery of Electrocatalysts for the CO_2 Reduction Reaction: Getting Into the Right Shape [CC-114]
Bojana Ranković, EPFL Lausanne
L. E. Zaza, R. Buonsanti, P. Schwaller

ChORISO: a highly curated organic reaction SMILES dataset [CC-115]
Victor Sabanza Gil, EPFL Lausanne
A. M Bran, M. Franke, P. Schwaller, J. Luterbacher

Frozen density embedding of CASSCF wavefunctions in CP2K [CC-116]
Lukas Schreder, University of Zurich
S. Luber

Nonadiabatic reactions and tunnelling: beyond the golden-rule approximation [CC-117]
George Trenins, ETH Zurich
J. O. Richardson

Efficiently Charting Chemical Reaction Space with First-Principles Methods [CC-118]
Jan Unsleber, ETH Zurich
M. Reiher

Machine Learning-Driven Yield Prediction in Organometallic Cross-Coupling Reactions [CC-119]
Vivek Vijay, Mahatma Gandhi University
C. Rajalakshmi, A. Vijayakumar, V. I. Thomas

Prediction of Chemical Reaction Yields for C-O Cross-Coupling Reaction Using Machine Learning Technique [CC-120]
Abhirami Vijayakumar, Mahatma Gandhi University
C. Rajalakshmi, V. Vijay, V. I. Thomas

Catalysis Sciences & Engineering [CE] Poster Session

Catalytic polysaccharide hydrolysis using separable Brønsted acidic imidazolium salts and ionic polymers in water [CE-101]
Kedar Abhyankar, EPFL Lausanne
R. J. Somerville, Z. Fei, P. J. Dyson

Controlled Modification of Cobalt Phosphide by Sulfur for Tuned Catalytic Properties in Hydrogenation [CE-102]
Nina Arnosti, University of Basel
V. Wyss, M. F. Delley

Co/Co Oxide Foam Catalysts for Sustainable Nitrate to Ammonia Electroreduction [CE-103]
Nandu Ashtaman Pillai Syamaladevi, University of Bern
A. Dutta, J. Drnec, P. Broekmann

Local structure of PdO/Al_2O_3 catalysts during aqueous phase reduction [CE-104]
Daniele Bonavia, European Synchrotron Radiation Facility, Grenoble
A. Ricchebuono, E. Vottero, R. Pellegrini, A. Piovano, E. Groppo, S. Checchia, D. Ferri

***Inverted* RDE for True OER Catalyst Degradation Assessment [CE-105]**
Aline Bornet, University of Bern
P. Moreno-García, M. d. Gálvez-Vázquez, M. Arenz, P. Broekmann

Combinatorial neutron imaging for in-situ alkane adsorption analysis over C_1-C_4 coupling catalysts [CE-106]
Alessia Cesarini, ETH Zurich
M. Nikolic, P. Trtik, J. A. van Bokhoven, A. Borgschulte

Low-Cost CuX Catalyst from Blast Furnace Slag Waste for Low-Temperature NH_3-SCR [CE-107]
Lin Chen, Chongqing University/Paul Scherrer Institut, Villigen
S. Ren, Q. Liu, D. Ferri

A Surface Organometallic Chemistry Platform for Efficient Deoxygenation of Small Molecule Oxygenates [CE-108]
Christian Ehinger, ETH Zurich
B. Berger, X. Zhou, C. Copéret

Operando transient EPR spectroscopy of N_2O activation and reaction on Fe-zeolites [CE-109]
Davide Ferri, Paul Scherrer Institut, Villigen
F. Buttignol, J. Fischer, A. Garbujo, G. Jeschke, O. Kröcher

Cation effect on electrocatalytic nitrate reduction to ammonia [CE-110]
Jonas Forner, University of Bern
Y. Wang, A. Dutta, P. Broekmann

Boosting Nitrate to Ammonia Electroconversion through Hydrogen Gas Evolution over Cu-foam@mesh Catalysts [CE-111]
Jonas Forner, University of Bern, Y. Wang, A. Dutta, A. Iarchuk, C. Sun, S. Vesztergom, P. Broekmann

Design of organometallic complexes as precursors for catalysts with tuneable properties [CE-112]
Lindsey Frederiksen, EPFL Lausanne
P. J. Dyson

Aging of $DeNO_x$ and DeN_2O catalysts for Nitric Acid plant [CE-113]
Alberto Garbujo, Casale SA
F. Oldani, R. Lanza, A. Lahougue, E. Rohart, P. Biasi

Evolution of active species in ethylene epoxidation over silver foil revealed by ambient pressure X-ray photoelectron spectroscopy [CE-114]
Man Guo, Paul Scherrer Institut, Villigen
J. A. Bokhoven, L. Artiglia

Titanium Surface Sites in Ziegler-Natta Pre-Catalysts from $^{47/49}$Ti solid-state NMR Signatures [CE-115]
Christoph Kaul, ETH Zurich
A. Yakimov, Y. Kakiuchi, S. Sabisch, F. M. Bolner, J. Raynaud, V. Monteil, P. Berruyer, C. Copéret

Decoding Solid-State NMR Descriptors of Group(VI)-Metal and Ligand Nuclei using Machine Learning [CE-116]
Magdalena Lederbauer, ETH Zurich
Z. J. Berkson, Y. Kakiuchi, J. Roudin, M. Seidel, K. Jorner, C. Copéret

Metal-Like Molecule for Stable Oxygen-Evolution: Natural Mimic by Integrating Co_4O_4 Cubane into Polypyrrole [CE-117]
Shangkun Li, University of Zurich
Z. Zhang, G. R. Patzke

Novel Iridium-Based Electrocatalyst on Titanium Substrates for the Oxygen Evolution Reaction [CE-118]
Julia Lorenzetti, University of Bern
P. Moreno-García, A. Bornet, P. Broekmann, M. Arenz

^{Ir}PYE$^+$ / ^{Ir}PYEH complex as self-regenerated NADH cofactor [CE-119]
Laura Monte, University of Bern
N. Lentz, F. Paradisi, M. Albrecht

Metal-ligand Cooperative Rhodium Complexes as Highly Active N_2O Hydrogenation Catalysts [CE-120]
Sven Thomas Nappen, ETH Zurich
M. Trincado, A. Thomas, H. Grützmacher

Understanding the catalytic pyrolysis mechanism of lignin constituents: the importance of functional groups [CE-121]
Zeyou Pan, ETH Zurich
X. Wu, A. Bodi, S. Bjelic, J. A. van Bokhoven, P. Hemberger

Tandem Carbon Capture and Catalysis over Amine-Functionalized Metal-Organic Frameworks for CO_2 Hydrogenation to Methanol [CE-122]
Fabio Peixoto Esteves, Paul Scherrer Institut, Villigen
J. A. van Bokhoven, M. Ranocchiari

Exploration of Novel Optically Active Resorcin [4]arene Capsule Derivatives for Enantioselective THT Cyclizations [CE-123]
Giacomo Persiani, University of Basel
D. Sokolova, K. Tiefenbacher

Novel triple mutant of an extremophilic glycosyl hydrolase enables the rapid synthesis of thioglycosides [CE-124]
Lauriane Pillet, University of Bern
D. Lim, N. Almulhim, A. Benítez-Mateos, F. Paradisi

Validation of the Iron Catalyst for green ammonia application [CE-125]
Cristina Pizzolitto, Casale SA
A. Biasin, M. Guiotto, P. Biasi

Pd single-atom heterogeneous catalyst for sustainable Sonogashira cross-coupling on scale [CE-126]
Dario Poier, ETH Zurich
D. Akl, E. G. Lucas, S. Mitchell, G. Guillén-Gosálbez, J. Pérez-Ramírez, R. Marti

Liquid product quantification *via* NMR in CO_2 electrocatalytic reduction over phosphate-derived nickel catalysts [CE-127]
Phil Preikschas, ETH Zurich
A. J. Martín, J. Pérez-Ramírez

Investigation and optimization of iridium complexes bearing O-functionalized PYE ligands for efficient formic acid dehydrogenation [CE-128]
Sabela Reuge, University of Bern
N. Lentz, M. Albrecht

Highly Efficient Hydrosilylation of Ketones and Aldehydes Catalysed by an Iron-Mesoionic Carbene Complex [CE-129]
Nathalie Rowlinson, University of Bern
W. Stroek, M. Albrecht

Sustainability at the center of novel technologies development [CE-130]
Annalisa Sacchetti, Casale SA
G. Caminada, P. Biasi, A. Casas, J. Garcia Serna

Investigation of Alumina-based Pt-Ga Systems for Non-Oxidative Propane Dehydrogenation Reaction [CE-131]
Kazutaka Sakamoto, ETH Zurich
M. Plodinec, A. Yakimov, E. Lam, P. Laveille, O. Safonova, C. Copéret

Covalent Functionalization of Transition Metal Phosphide Catalysts with Aryl Groups [CE-132]
Yu-Chun Shen, University of Basel
V. Wyss, M. F. Delley

Defined precursors for atomically dispersed catalysts [CE-133]
Rosie Somerville, EPFL Lausanne
J.-C. Schmidt, K. A. Abhyankar, P. J. Dyson

Flow Synthesis of L-Pipecolic Acid using a Lysine Cyclodeaminase [CE-134]
Kaja Stalder, University of Bern
A. I. Benítez-Mateos, F. Paradisi

A Novel Electrochemical Approach to Sustainable NO_x Reduction from Diluted Gas Streams [CE-135]
Kim Trösch, ETH Zurich
A. Singh-Morgan, V. Mougel

Mechanistic Investigations of "Ligand-Free" Kumada-Tamao-Corriu Cross-Coupling Reactions [CE-136]
Luca Vedani, University of Bern
A. M. Borys, E. Hevia

Electrocatalytic generation of metal hydrides promoted by concerted proton electron transfer mediators for the transformation of small molecules [CE-137]
Alessandro Walker, ETH Zurich
M. Inoue, V. Mougel

Protection of Methanol Synthesized From Methane via The Formation of Asymmetric Ethers [CE-138]
Johannes Wieser, ETH Zurich
J. A. van Bokhoven

The Surface Chemistry of Cobalt Sulfide in Thermo-Catalytic Oxygen Transfer Reactivity [CE-139]
Vanessa Wyss, University of Basel
M. F. Delley

Cobalt-Based CO_2 Hydrogenation: Link Between Particle Size, Oxidation State and Product Selectivity [CE-140]
Xiaoyu Zhou, ETH Zurich
G. Sunley, C. Copéret, G. Sunley

Design of selective, stable, and scalable $ZnZrO_x$ catalysts for sustainable methanol synthesis from CO_2 [CE-141]
Tangsheng Zou, ETH Zurich
T. Pinheiro Araújo, J. Morales-Vidal, M. Agrachev, P. O. Willi, R. N. Grass, G. Jeschke, S. Mitchell, N. López, J. Pérez-Ramírez

Chemistry and the Environment [EV] Poster Session

Characterization of the main European mineral water brands based on the ion composition [EV-101]
Zsolt Bodor, Sapientia Hungarian University of Transylvania
K. Bodor, B. Tokos, Á. Keresztesi, R. Szép

Designing supramolecular liquid-crystalline materials from pyrenyl-dendrimers by encapsulation in metallacycles [IC-102]
Ralf Kaegi, Eawag Dübendorf
M. Philipp, T. D. Bucheli

Formation kinetics and hydrolysis properties of organic peroxides from monoterpene-derived Criegee intermediates with various organic acids [EV-103]
Kangwei Li, University of Basel
J. Resch, M. Kalberer

Direct Irradiation of Aromatic Methyl Thioether Compounds [EV-104]
Sahar Naim, ETH Zurich

Towards Streamlined Environmental Persistence Assays for Trace Organic Contaminants: Preliminary Findings from High-Throughput Biodegradation Testing [EV-105]
Sarah Partanen, Eawag Dübendorf
K. Fenner

Development of plant-volatile-based remote sensing for early detection of insect pest presence and crop protection [EV-106]
Sergio Ramos, University of Zurich
C. Geckeler, J. Lang, S. Mintchev, M. C. Schuman

Online Quantification of Oxidative Potential from Residential Wood Combustion (RWC) and Car Exhaust Aerosol [EV-107]
Battist Utinger, University of Basel
A. Barth, S. J. Campbell, M. Kalberer

The fate of heavy metals in industrial recycling facilities of e-waste [EV-108]
Jelle Verdonck, KU Leuven
K. Poels, J. Vanoirbeek, E. Smolders, L. Godderis

Inorganic Chemistry [IC] Poster Session

Cesium Distribution in Perovskites revealed by ^{127}I NQR [IC-101]
Marcel Aebli, ETH Zurich
N. Porenta, N. Aregger, M. Kovalenko

Acetylene-Based Layered Hybrid Perovskites [IC-102]
Ghewa AlSabeh, Adolphe Merkle Institute & EPFL Lausanne
L. Pfeifer, D. Kubicki , L. Merten, A. Hinderhofer , D. Moia , I. Moudrakovski , J. Maier , J. V. Milić , M. Grätzel

Nickel-Catalyzed Cyclopropanation of Unactivated Olefins [IC-103]
Maurice Andrey, ETH Zurich
S. A. Künzi, P. Chen

Dissolution-Precipitation Synthesis of Pyrochlore-Type Iron Hydroxy Fluoride for Low-Cost Lithium-Ion Batteries [IC-104]
Julian Baumgärtner, ETH Zurich
M. Wörle, C. P. Guntlin, F. Krumeich, S. Siegrist, V. Vogt, D. C. Stoian, D. Chernyshov, W. van Beek, K. V. Kravchyk, M. V. Kovalenko

Lead Halide Perovskite Nanocrystals passivated with guanidinium-based ligands [IC-105]
Yuliia Berezovska, ETH Zurich
C. Bernasconi, M. Bodnarchuk, D. Dirin, A. Guagliardi, M. Kovalenko

Nickelate-Catalysed Alkynylation of (Poly)Fluoroarenes [IC-106]
Andryj Borys, Universitat Bern
L. Vedani, E. Hevia

Introducing Isocyanide Ligands into the Cyclopentadienone Iron Complex Framework [IC-107]
André Bütikofer, ETH Zurich
P. Chen

Structural investigation of chelating agents and their mercury, lead and cadmium (II) complexes [IC-108]
Dib Chakif, University of Bern
I. Gjuroski, J. Furrer

Investigation of Iron(III) Schiff-Based Complexes for Carbon Dioxide Reduction [IC-109]
Daniel Civettini, University of Zurich

Redox-Transmetalation and Associated Bimetallics Based on an Al/Zn System [IC-110]
Fabian Dankert, University of Bern
E. Hevia

Intrinsic formamidinium tin iodide nanocrystals by suppressing the Sn(IV) impurities [IC-111]
Dmitry Dirin, ETH Zurich
A. Vivani, M. Zacharias, T. Sekh, I. Cherniukh, M. Aebli, A. Wieczorek, S. Siol, M. Kovalenko, M. Bodnarchuk

The Co-C Bond in the Gas Phase [IC-112]
Felix Fleckenstein, ETH Zurich
P. Chen

The electronic structure of molecular Pt clusters from solid-state ^{195}Pt NMR, one atom at the time. [IC-113]
Domenico Gioffrè, ETH Zurich
A. Yakimov, C. Copéret

Iron-mesoionic carbene complexes for catalytic intramolecular C-H amination: novel ligand synthesis [IC-114]
Luke Hudson, University of Bern
W. Stroek, M. Albrecht

Exploring Trans(amination) Reactions in Co(II) Chemistry [IC-115]
Na Jin, University of Bern
A. Logallo, E. Hevia

Dinitrogen cleavage by a multinuclear U(III) complex in absence of cations [IC-116]
Nadir Jori, EPFL Lausanne
M. Keener, R. Scopelliti, T. Rajeshkumar, L. Maron, M. Mazzanti

Alkali-Metal-Alkoxide Powered Zincation of Fluoroarenes Employing Zinc Bis-Amide Zn(TMP)$_2$ [IC-117]
Neil Judge, University of Bern
E. Hevia

Phosphine Oxide-Functionalized Terthiophene Redox Systems [IC-118]
Daniel Käch, ETH Zurich
A. C. Gasser, L. Wettstein, C. Schweinzer, M. J. Bezdek

Activation of Methyltrioxorhenium for Olefin Metathesis by a Frustrated Lewis Pair [IC-119]
Péter Kalapos, ETH Zurich
Y. Stöferle, P. Chen

Understanding the preparative green MOF-74 synthesis by time-resolved ATR-IR and XRD measurements [IC-120]
Ilia Kochetygov, Paul Scherrer Institut, Villigen
M. Ranocchiari, D. Ferri

Colloidal ternary telluride quantum dots for tunable phase change optics in the visible and near-infrared [IC-121]
Dhananjeya Kumaar, ETH Zurich

Metal Template Synthesis of Aromatic Preorganized Ligands for Tuning Stability Constants in Lanthanide Adducts [IC-122]
Giau Le-Hoang, University of Geneva

Exploiting Cobalt(II) Amide Complexes in Deprotonative Metalation of Fluoroaromatic Molecules [IC-124]
Alessandra Logallo, University of Bern
E. Hevia

Crystal growth of new van der Waals materials solid solutions (*TM´*, *TM´´*)I_2 (*TM* = Co, Fe, Ni) with tuned magnetic properties [IC-125]
Anastasiia Lukovkina, University of Geneva
E. Giannini, F. von Rohr

Unlocking Cyclometalation: Catalytic Transmetalation Towards Cyclometalated Gold(III) Complexes [IC-126]
Jaime Martín, University of Zurich
E. Gómez-Bengoa, C. Nevado

Synthesis, Characterization and Reactivity of 7-Coordinate Molybdenum Alkyl Complexes Supported by β-Diketonates [IC-127]
Fabio Masero, ETH Zurich
V. Mougel

Cyclometalated ligand affords highly reducing U(III) complex [IC-128]
Dieuwertje Modder, EPFL Lausanne
R. Scopelliti, M. Mazzanti

Study of the Anticancer Activity of Polyoxometalates [IC-129]
Jaclyn Parris, University of Zurich

Salen-derived multi-metallic complexes [IC-130]
Jocelyn Pradegan, University of Fribourg
K. M. Fromm

Pulsed laser deposition of Ho_2O_3 Röntgen Thin Films [IC-131]
Sharath Rameshbabu, Empa Dübendorf
D. Bleiner

Efficient alcohol oxidation with novel manganese(III) complexes with bis(phenolate)-NHC ligands [IC-132]
Giacomo Rigoni, University of Bern
P. Nylund, M. Albrecht

Anticancer rhenium di- and tricarbonyl complexes and synthesis of new α-diimine rhenium dicarbonyl complexes [IC-133]
Kevin Schindler, University of Fribourg
J. Delasoie, J. Rossier, A. Crochet, A. Pavic, F. Zobi

Synthesis and Characterization of POM-Cubane Hybrids [IC-134]
Aaron Schultz, University of Zurich

Designing Advanced Battery Materials Beyond Lithium-Ion Technology [IC-135]
Zhi Wei Seh, A*STAR, Singapore

Towards the Experimental Determination of the Hydricity of Silanes [IC-136]
Laurent Sévery, CEA Saclay
A. Mifleur, T. Cantat

Defined patches of interwoven materials [IC-137]
Luise Sokoliuk, University of Basel

Inside or outside the box? Confinement-driven and surface catalysis with coordination cages [IC-138]
Atena Solea, EPFL Lausanne
M. D. Ward

Computational Design of Surface Capping Ligands for Structurally Soft Metal Halide Nanocrystals [IC-139]
Andriy Stelmakh, ETH Zurich
V. Morad, M. Svyrydenko, L. Feld, M. Aebli, A. Baumketner, M. Kovalenko

The ion-funnel-to-IVAC system for chemistry experiments with radionuclides having half-lives in the sub-second regime [IC-140]
Georg Tiebel, Paul Scherrer Institut, Villigen
R. Dressler, R. Eichler, C. M. Folden III, D. Herrmann, A. Kirkland, E. Tereshatov, A. Vögele, P. Steinegger

Tailoring Sodium Organometallic Reagents for Arena Functionalization [IC-141]
Andreu Tortajada , University of Bern
E.Hevia

Surface Functionalization of Carbon Substrates with Host-Guest Complexes for Electrocatalysis [IC-142]
Işık Tunçay, University of Zurich
L. Sévery, P. Adams, D. Tilley

Band-Edge Modification of Quantum Dots by Solvation [IC-143]
Yan Vogel, Delft University of Technology
A. J. Houtepen, Y. B. Vogel

Group-subgroup relation and superconductivity in ternary compounds with AlB_2-type structure [IC-144]
Dorota Walicka, University of Geneva
F. O. von Rohr

Gas-Phase Adsorption Chromatography of Thallium on Dehydroxylated Fused Silica Surfaces [IC-145]
Jennifer Wilson, Paul Scherrer Institut, Villigen
K. Tsukada, M. Asai, Y. Ito, R. Eichler, A. Toyoshima, P. Steinegger, T. Sato

Ultrafast-sintered self-standing LLZO membranes for high energy density Li-garnet solid-state batteries [IC-146]
Huanyu Zhang, ETH Zurich
F. Okur, R. Dubey, M. Inniger, R. Wullich, D. T. Karabay, A. Parrilli, A. Neels, K. V. Kravchyk, M. V. Kovalenko

Medicinal Chemistry & Chemical Biology [MC] Poster Session

Antimicrobial peptide-peptoid hybrids to control multidrug resistant Gram-negative bacteria [MC-101]
Etienne Bonvin, University of Bern
J. L. Reymond

Redesigning PAMAMs: Antimicrobial Inverse-Polyamidoamine (i-PAMAM) Dendrimers [MC-102]
Etienne Bonvin, University of Bern
J. L. Reymond

Chemical synthesis of c-Myc transactivation domain using a synthesis/solubility tag [MC-103]
Héloïse Bürgisser, University of Zurich
R. Lescure, A. Jeandin, A. Premanand, E. T. Williams, N. Hartrampf

From screening to structure - Boosting NMR-based drug discovery with hyperpolarization and label-free structure determination [MC-104]
Matthias Bütikofer, ETH Zurich
F. Torres, G. Stadler, T. Segawa, H. Kadavath, R. Riek, J. Ort

Fluorescent labeling of cellular DNA for an exploration of in-situ chromatin structure [MC-105]
Wei Cai, EPFL Lausanne

Production of Semisynthetic Tubulin with Definable Post-Translational Modification [MC-106]
Po-Han Chang, EPFL Lausanne
E. Ebberink, S. Fernandes, C. Aumeier, B. Fierz

Inhibition of Cell Motility by Cell-Penetrating Dynamic Covalent Cascade Exchangers - Integrins Participate in Thiol-Mediated Uptake [MC-107]
Filipe Coelho, University of Geneva
S. Saidjalolov, D. Moreau, O. Thorn-Seshold, S. Matile

Unlocking the high-throughput potential of peptidomimetic diversification [MC-108]
Nathan De Sadeleer, EPFL Lausanne
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Besim Fazliji, University of Zurich
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A. Altorfer, M. D. Salim, G. Chesnokov, S. Dittmann, S. Sievers, K. Gademann

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Carla Ferreira Rodrigues, University of Zurich
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Developing Molecular Tools for the Study and Detection of Calcium-Sensing Receptor [MC-112]
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Pauline Franz, EPFL Lausanne
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P. Grossenbacher, S. A. Singer, M. Lochner

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Pascal Grundler, Paul Scherrer Institut, Villigen
C. Favaretto, Z. Talip, U. Köster, J. Zeevaart, S. Geistlich, R. Schibli, N. P. van der Meulen

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Rachel Hevey, University of Basel

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Soumyadip Jana, University of Zurich
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Antibiotics conjugated small tag for bacterial labeling and monitoring of drug uptake/efflux [MC-119]
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Yuji Kamei, EPFL Lausanne
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Daja Krummenacher, University of Bern
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Niko Lindlar, University of Zurich
S. Zelger-Paulus, R. K. Sigel

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Salem Majouri, University of Fribourg
M. Karamash, K. M. Fromm, B. Giese

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Valentina Marchini, inSEIT AG
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Rebecca Mattison, Bayer AG
J. Frackenpohl, B. Bollenbach-Wahl, J. Freigang, I. Heinemann, H. Helmke, E. Gatzweiler, G. Lange, H. Jakobi

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Carla Miró-Vinyals, University of Zurich
S. Emmert, G. Grammbitter, P. Rivera-Fuentes

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Kleni Mulliri, University of Bern
K. Meier, J. Reymond

Characterization of Amyloid β aggregation via Supercritical Angle Fluorescence and Raman microscopy and spectroscopy [MC-131]
Nathalia Münch, University of Zurich
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Assessing the cellular permeability of peptidic macrocycles in high-throughput [MC-132]
Alexander L. Nielsen, EPFL Lausanne
C. Bartling, K. Strømgaard, C. Heinis

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Basak Olcay, University of Bern
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Determination of Biomarkers in Liver Disease by In vivo and Ex vivo NMR [MC-134]
Chiamaka Onyia, University of Bern
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Leonardo Palaferri, University of Zurich
K. Gosselé, I. Cheng-Sánchez, E. Laul, A. Müller, Y. Li, A. Caflisch, C. Nevado

Advancing Type II DNA Topoisomerase Research through QM/MM Simulations and Development of Catalytic Inhibitors [MC-136]
Andrej Perdih, National Institute of Chemisty, Ljubljana
M. Janežič, M. Ogrizek, K. Bergant Loboda, B. Herlah, K. Valjavec, G. Wolber

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Zbigniew Pianowski, KIT Karlsruhe
S. Kirchner, A. Leistner, P. Gödtel, A. Seliwjorstow, Z. Pianowski

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Laura Poller, ETH Zurich
M. C. Deen, T. Fiala, E. Schönbächler, R. Heeb, H. Wennemers

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Maria Reichenbach, University of Zurich
S. Gallo, R. K. Sigel

Site-Specific, Bioorthogonal Protein Labeling by Tetrazine Ligation using Endogenous β-Amino Acid Dienophiles Derived from Natural Product Biosynthesis [MC-140]
Daniel Richter, ETH Zurich
E. Lakis, A. L. Vagstad, S. Magyari, T. A. Scott, J. Piel

Fine-tuning the cytotoxicity of ruthenium(II) arene compounds to enhance selectivity against breast cancers [MC-141]
Jan Romano-deGea, EPFL Lausanne
S. A. Pereira, M. M. Saraiva, P. J. Dyson

Expanding the Chemical Space of Lasso Peptides: Enzymatic Maturation of Synthetic Peptide Precursors [MC-142]
Kevin Schiefelbein, University of Zurich
R. Striga, J. Lang, M. Schuster, O. Zerbe, Y. Li, N. Hartrampf

Amphipathic proline-rich cell penetrating peptides for mitochondria targeting [MC-143]
Adeline Schmitt, ETH Zurich
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Triggered Release of a potent LPAAT-β inhibitor from inactive prodrugs to kill cancer cells [MC-145]
Céline Schuppisser, University of Bern
S. Yasmin, M. Poirier, G. T. Giuffredi, H. Personne, J. L. Reymond

Astrocyte–specific targeting and kinase inhibition of the TNFR1 pathway [MC-146]
Céline Schuppisser, University of Bern
R. De Ceglia, I. Zalachoras, A. Volterra, J. L. Reymond

Fragment Screening and Fast Nanomolar Detection on a Benchtop NMR Spectrometer Boosted by Photoinduced Hyperpolarization [MC-147]
Gabriela Stadler, ETH Zurich
T. F. Segawa, M. Bütikofer, V. Decker, S. Loss, B. Czarniecki, F. Torres, R. P. Riek

Development of a self-optimizing platform for flow-based peptide synthesis [MC-148]
Bálint Tamás, University of Zurich
P. L. Willi, N. Hartrampf

Drifting in the structure of cell-penetrating DNA- and RNA-binding nucleopeptides [MC-149]
Stefano Tomassi, University of Naples Federico II
C. Ieranò, S. Scala, A. Messere, S. Di Maro

Combinatorial design of nanoparticles for efficient delivery of therapeutic biomacromolecules through the blood brain barrier [MC-150]
Congyu Wu, FHNW Muttenz
N. Santacroce, E. Laprévotte, Y. Dudal, L. Suter-Dick, P. Shahgaldian

Chemically Enhanced Antisense Oligonucleotides: A Molecular Approach for Treating Autosomal Dominant Tubulointerstitial Kidney [MC-151]
Sebastian Sjöström, ETH Zurich
J. Lake, M. Mariniello, G. Schiano, A. Kokanovic, A. Hill, O. Devuyst, J. Hall

RNA-PROTACs targeting aggregate prone RNA-Binding Proteins [MC-152]
Céline Weller, ETH Zurich
J. P. Becker, J. Hall

Installation of Electrophiles onto the C-terminus of recombinant ubiquitin and ubiquitin-like proteins [MC-153]
Kateryna A. Tolmachova, ETH Zurich
J. Farnung, J. W. Bode

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Highly Reactive Hydrocarbon Soluble Alkylsodium Reagents for Benzylic Aroylation of Toluenes using Weinreb Amides [OC-101]
David Anderson, University of Bern
E. Hevia

Studies Towards the Total Synthesis of Griseoviridin [OC-103]
Carolina Caso, ETH Zurich
A. Perera, K. H. Altmann

Ethynylbenziodoxolones and Cesium Oxalates under Blue Light: from Deoxyalkynylation to Lactonization [OC-104]
Diana Cavalli, EPFL Lausanne
S. G. E. Amos, F. Le Vaillant, J. Waser

Water-Soluble Cationic Porphyrins for MRI [OC-105]
Çetin Çelik, ETH Zurich
Y. Yamakoshi

Advancements in *Trypanosoma cruzi* Mucins: Synthesis of a penthasaccharide constituent of core 2 mucins and derivatives [OC-106]
Carmen Cori Calizaya, University of Basel
L. Altaleff, G. A. Kashiwagi, C. Gallo-Rodriguez

Synthesis of Analogs of (–)-Zampanolide and Structure-Activity Relationship Studies [OC-107]
Etienne Cotter, ETH Zurich
T. Brütsch, D. Lucena-Agell, S. Berardozzi, F. DíazK. Altmann

The Lyral Challenge [OC-108]
Julien Coulomb, DSM-Firmenich

Nickel Catalyzed Enantioselective C-H Benzylic Carbamoylation [OC-109]
Sergio Cuesta-Galisteo, University of Zurich
C. Hervieu, J. Schörgenhumer, C. Nevado

Geländer Molecules with Orthogonal Joints: Design, Synthesis, and Properties [OC-110]
Adriano D'Addio, University of Basel
M. Mayor

Iridium-Catalyzed Hydrogenation of Pyridines [OC-111]
Arthur Despois, EPFL Lausanne
N. Cramer

Exploring Regio-Selective Spin Interactions: Positional Isomerism and its Influence on Spin Communication in Light-Induced Multi-Spin Systems [OC-113]
Mélissa El Bitar Nehme, University of Zurich
P. Thielert, M. Mayländer, T. Quintes, M. Franz, S. Zimmermann, P. Gilch, M. Rickhaus, S. Richert

Neutral Radical Chromophores based on Triple-Functionalized [4]Helicene Scaffolds [OC-114]
Bibiana Fabri, University of Geneva
T. Funaioli, G. Pescitelli, L. Frédéric, F. Zinna, L. Di Bari, J. Lacour

Catalytic *ipso*-Nitration of Organosilanes Enabled by Electrophilic *N*-Nitrosaccharin Reagent [OC-115]
Anthony Fernandes, University of Bern
I. Mosiagin, A. J. Fernandes, A. Budinská, L. HayriyanK. E. Ylijoki, D. Katayev

Iridium(III)-catalyzed intermolecular C(sp^3)–H amidation for the synthesis of chiral 1,2-diamines [OC-116]
Andrea Geraci, University of Basel
U. Stojiljković, K. Antien, N. Salameh, O. Baudoin

Efficient C-N cross couplings via heterogeneous single-atom catalysis [OC-117]
Georgios Giannakakis, ETH Zurich
S. Fantasia, S. Mitchell, K. Puentener, J. Pérez-Ramírez

Photoredox Activation of Anhydrides and Acids for the Solvent-Controlled Switchable Synthesis of *gem*-Difluoro Compounds [OC-118]
Rahul Giri, University of Bern
D. Katayev

Exploring Conductance Phenomena in Single Molecule Break Junctions using Thiophene Macrocycles with Multiple Pathways [OC-119]
Salome Heim, University of Basel
S. van der Poel, M. Mayor, H. van der Zant

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Yawen Hu, University of Zurich
C. Hervieu, E. Merino, C. Nevado

Photouncaging Systems Actuated by Near-Infrared Light [OC-122]
Hana Janekova, University of Zurich
M. Russo, P. Štacko

Chiral arylsulfinylamides: *all-in-one* reagents for visible light-mediated asymmetric alkene aminoarylations [OC-123]
Mariia Kirillova, University of Zurich
C. Hervieu, Y. Hu, S. Cuesta-Galisteo, E. Merino, C. Nevado

Aziridines via 1,3,2-Diazaphospholene-Catalyzed *aza*-MIRC [OC-124]
Johannes Klett, EPFL Lausanne
N. Cramer

Bioinspired Synthesis of Tetraponerines and Analogues Thereof [OC-125]
Frederic Kölblin, ETH Zurich
J. W. Rackl, T. Egger, H. Wennemers

Functionalization of 1,3,6,8-Tetraazapyrene for fused Donor-Acceptor Ensembles [OC-126]
Isabelle Kolly, University of Bern
P. Zhou, R. Häner, S. X. Liu

Methylene C(sp^3)–H activation enables stereoselective synthesis of Indidene natural products [OC-127]
Anton Kudashev, University of Basel
S. Vergura, O. Baudoin

Introducing Cinchona Alkaloid Appended Thiol(s) in Gold Nanocluster Chemistry [OC-128]
Subhradip Kundu, University of Geneva
D. Rosa-Gastaldo, A. Rosspeintner, M. Swierczewski, T. Bürgi

Enantioselective beta-arylation of alcohols via a multicatalytic relay [OC-129]
Bruno Lainer, Université de Strasbourg
P. Dydio

Protecting-Group-Free Synthesis of Selenoglycoconjugates in Water [OC-130]
David Lim, University of Bern
F. Paradisi

Studies Towards the Total Synthesis of Cervinomycin Natural Products [OC-131]
Rafael Lombardi, University of Basel
M. Wheatley, O. Baudoin

Mechanistic Investigation of the Rhodium-catalyzed Transfer Hydroarylation between Tertiary Alcohols and Ketones [OC-132]
Marius Lutz, ETH Zurich
S. Roediger, V. Gasser, M. A. Rivero-Crespo, B. Morandi

Streamlined Synthesis and Catalytic Performance of Chiral Cyclic (Alkyl)(Amino)Carbene Transition Metal Complexes Bearing α-Quaternary Stereogenic Centers [OC-133]
Adrien Madron du Vigné, EPFL Lausanne
N. Cramer

Interrupted Polonovski strategy for the functionalization of amino acids and peptides [OC-134]
Christine Marty, EPFL Lausanne
J. Waser

Synthesis and Reactivity of a Terminal 1 Alkynyl Triazene [OC-135]
Christeena Mathew, EPFL Lausanne

CpRu-Catalyzed Multicomponent Synthesis of Polyheterocycles Pyrazolidines Through Cycloadditions and Metal-Carbene Addition [OC-136]
Claire Montagnon, University of Geneva
J. Bultel, C. Besnard, J. Lacour

Synthesis of bicyclo [3.1.1]heptanes and cyclopenta(e)nes by photocatalyzed cycloaddition of carbonyl cyclopropanes. [OC-137]
Tin Nguyen, EPFL Lausanne
A. Bossonnet, J. Waser

_o_-Quinodimethane Atropisomers: Enantioselective Synthesis and Stereospecific Transformation [OC-138]
Andreas Ostertag, University of Basel
J. Dong, C. Sparr

From Naked-Eye Detection of H-Bond Donors to Chiroptical Sensing of Enantiopure Reagents [OC-139]
Dávid Pál, University of Geneva
C. Besnard, A. I. Poblador-Bahamonde, G. Pescitelli, J. Lacour

Iron-catalyzed synthesis of alpha-azido amino acids: an easy access to versatile building blocks [OC-140]
Pierre Palamini, EPFL Lausanne
E. M. D. Allouche, J. Waser

Core Alkynylated FLIPPER for Fluorescence Membrane Tension Probes [OC-141]
Khurnia Krisna Puji Pamungkas, University of Geneva
I. Fureraj, L. Assies, N. Sakai, E. Vauthey, S. Matile

Nonacethrene as a magnetic photoswitch: can one methyl group change the game? [OC-142]
Pauline Pfister, University of Zurich
D. Čavlović, C. Moreno Cruz, M. Juríček

Utilizing Sodium Amides in Deep Eutectic Solvents [OC-143]
Andrew Platten, University of Bern
E. Hevia

New neo-clerodane diterpenes from *Teucrium polium* subsp. *capitatum* [OC-144]
Morris Keller, University of Basel
S. Chabane, O. Danton, A. Prescimone, A. Boudjelal, M. Hamburger, O. Potterat

Carboamination of propargylic alcohols via *in situ* tether formation [OC-145]
Mikus Purins, EPFL Lausanne
J. Waser

Cu(I)-BOX Catalyzed Asymmetric 3-Component Reaction for the Synthesis of Trifluoromethylated Propargylic Ethers and Anilines [OC-146]
Nieves Ramirez, EPFL Lausanne
J. Waser

Electronically flexible pyridylidene amide ligands for palladium-catalyzed α-arylation of ketones [OC-147]
Esaïe Reusser, University of Bern
M. Albrecht

Donor-Acceptor Aminocyclobutane Monoesters: Synthesis and Silylium-Catalyzed (4+2) Annulation with Indoles [OC-148]
Emma Robert, EPFL Lausanne
V. Pirenne, M. D. Wodrich, J. Waser

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Noah Rychener, University of Amsterdam
S. Meister, L. Sokoliuk, S. Fisher, H. Huang, T. Šolomek

Deciphering the Mechanism of Thiol-Mediated Uptake: μMap Strategy for Labeling Transient TMU Partners [OC-150]
Saidbakhrom Saidjalolov, University of Geneva
F. Coelho, B. Lim, J. Gajić, D. Moreau, Y. Wu, N. Sakai, S. Matile

Chiral Boramidines: New Boron-Based Materials with Efficient Circularly Polarized Luminescence [OC-151]
Nidal Saleh, University of Geneva
J. Lacour, N. Saleh

An artificial hydrogen bond relay in a supramolecular capsule enables highly selective β-glycosylation [OC-152]
Dario Schmid, University of Basel
T. Li, F. Huck, G. M. Piccini, K. Tiefenbacher

Reaction-Agnostic Featurization of Bidentate Ligands for Bayesian Ridge Regression of Enantioselectivity [OC-153]
Alexandre Schoepfer, EPFL Lausanne
R. Laplaza, J. Waser, C. Corminboeuf

Cyanine Renaissance: Light-Operated Medicine [OC-154]
Peter Stacko, University of Zurich
H. Janekova, M. Russo

Studies towards the total synthesis of macplocimine A [OC-155]
Saiyyna Stepanova, ETH Zurich
M. Zechner, K. Altmann

Anion-π catalysis induced epoxide-opening ether cyclizations on different surfaces [OC-156]
Meiling Tan, University of Geneva
M. Gutiérrez López, N. Sakai, S. Matile

Construction of 4-membered rings through an intramolecular C(sp^3)–H activation [OC-157]
Maria Tsitopoulou, University of Basel
A. Clemenceau, P. Thesmar, O. Baudoin

Divergent Regio- and Enantioselective Synthesis of Spirocycles *via* Phenol-Directed Cobalt(III)-Catalyzed Dearomative Annulations with Alkynyl Triazenes [OC-158]
Bram Van Den Bossche, EPFL Lausanne
N. Cramer

Facile access towards trans-hydroxyoctahydroazulenone core and total synthesis of diterpenoids Randainin D and Shortolide C [OC-159]
Oleksandr Vyhivskyi, University of Basel
O. Baudoin

Head-to-Tail dimerization of N-heterocyclic Diazoolefins [OC-160]
Tak Wong, EPFL Lausanne
P. Varava, K. Severin

Dynamic kinetic resolution of racemic amines with stereogenic nitrogen centers [OC-161]
Snizhana Zaitseva, University of Basel
V. Köhler

Enantioselective Synthesis of α Aminoboronic Acid Derivatives via Copper-Catalyzed N Alkylation [OC-162]
Giuseppe Zuccarello, California Institute of Technology
S. M. Batiste, H. Cho, G. C. Fu

C_{60}-Based Switchable Fluorescent Probes [OC-163]
Yue Ma, ETH Zurich
L. Persi, Y. Yamakoshi

Bis-cyclometallated iridium catalysts for ortho directed C-H borylation [OC-164]
Janis Zakis, Université de Strasbourg
A. Mesinis, L. Ackermann, J. Wencel-Delord, T. Smejkal

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Crystallization of $SrAl_{12}O_{19}$ Nanocrystals from Amorphous Submicrometer Particles [PC-101]
Jafar Afshani, University of Geneva
T. Bürgi, H. Hagemann

Enhancing Data Understanding: An Integrated Approach using multivariate statistical techniques in Time-resolved Spectroscopy, case of study: Trans-Cl- [Ru(X,X')-dimethyl-2,2'-bipyridine)$(CO)_2Cl_2$] [PC-102]
Sergio Aranda, University of Zurich
L. Tatarashvili, K. Oppelt, P. Hamm

Effect of solvation on excited state symmetry breaking using transient infrared spectroscopy [PC-103]
Evangelos Balanikas, University of Geneva
E. Vauthey

Composition-Driven Differences in Active Site Speciation and Behavior in Methane to Methanol Oxidation of Copper Exchanged Chabazite [PC-104]
Andreas Brenig, ETH Zurich
J. W. Fischer, V. L. Sushkevich, D. Klose, G. Jeschke, J. A. van Bokhoven

Can IR substitute X-rays? Quantitative analysis of vibrational spectra powered by machine learning [PC-105]
Aram Bugaev, Paul Scherrer Institut, Villigen
O. Usoltsev, A. Skorynina, D. Ferri, M. Nachtegaal

Phase transition detection of CO_2 through near infrared spectroscopy [PC-106]
Federico Cambiè, Paul Scherrer Institut, Villigen
M. Canossi, C. Pizzolitto, O. Kröcher, I. Alxneit, D. Ferri

Precision spectroscopy of transitions from the metastable $2\,^3S_1$ state of ^{4}He to high np Rydberg states [PC-107]
Gloria Clausen, ETH Zurich
J. Agner, H. Schmutz, S. Scheidegger, F. Merkt

Properties of γD-crystallin undergoing Liquid-Liquid Phase Separation studied by EPR and *In-situ* Raman spectroscopy [PC-108]
IDominik Gendreizig, University of Geneva
N. Barbosa, A. Kalarikkal, L. Galazzo, T. Adachi, E. Bordignon

Excited State Dynamics of Electron Injection and Hole Shift in a Dye-Sensitized Photocatalytic System [PC-109]
Chinju Govind, University of Geneva
D. Romito, V. Nikolaou, G. Charalambidis, S. Diring, A. Coutsolelos, F. Odobel, E. Vauthey

Influence of translational and rotational energy on the rate of ion-molecule reactions near 0 K: $D_2^+ + NH_3$ and $D_2^+ + ND_3$ [PC-110]
Raphaël Hahn, ETH Zurich
V. Zhelyazkova, D. Schlander, F. Merkt

Accessing Higher Vibrational States of He_2^+ through Multi-Step Excitation [PC-111]
Maxime Holdener, ETH Zurich
F. Merkt

Precision Spectroscopy and Coherent Manipulation of a Single Molecular Nitrogen Ion [PC-112]
Richard Karl, University of Basel
A. Shlykov, M. Roguski, M. Sinhal, P. Paliwal, S. Willitsch

Analysis of the Infrared Spectrum of *trans-c*-2,3-di-deuterooxirane and further isotopomers [PC-113]
Karen Keppler, ETH Zurich
S. Albert, Z. Chen, C. Manca Tanner, V. Schurig, J. Stohner, O. Trapp, G. Wichmann, M. Quack

High-Resolution Fourier Transform Infrared Spectrum of 1,3-Difluoroallene: a Candidate for the Detection of Molecular Parity Violation [PC-114]
Karen Keppler, ETH Zurich
S. Albert, M. Gottselig, E. Miloglyadov, J. Stohner, G. Wichmann, M. Quack

High-resolution spectroscopy of the ground and low-lying excited states of $MgNe^+$ and $MgXe^+$ [PC-115]
Carla Kreis, ETH Zurich
J. R. Schmitz, F. Merkt

A Pinch of Sodium: Rapid CO_2 Uptake with MgO-based CO_2 sorbents upon promotion with Na_2CO_3 seeds [PC-116]
Annelies Landuyt, ETH Zurich
I. Kochetygov, M. Krödel, P. M. Abdala, W. L. Queen, C. R. Müller

Determination of fundamental photophysical parameters of gold nanoclusters [PC-117]
Luis Enrique Llanes Montesino, University of Geneva
T. Bürgi, A. Rosspeintner

Using Instanton Theory to Study Quantum Effects in Photosensitization [PC-118]
Meghna Manae, ETH Zurich
J. O. Richardson

Laser cooling of trapped ions in strongly inhomogeneous magnetic fields [PC-119]
Christian Mangeng, University of Basel
Y. Yin, R. Karl, S. Willitsch

Studying rotational-state and conformational effects in chemi-ionisation reactions [PC-120]
Amit Mishra, University of Basel
L. Ploenes, P. Stranak, C. He, S. K. Kim, S. Willitsch

Single-cycle and multi-cycle terahertz pulse generation in beta barium borate (β-BBO) [PC-121]
Seyyed Mousavi, University of Zurich
A. Shalit

Real-time tracking of the ultrafast chirality and energy transfer in a chiral OLED complex with circularly-polarized luminescence [PC-122]
Livia Müller, University of Basel
F. Zinna, M. Oppermann

Unveiling the Impact of Trifluoroacetic Acid on Phase Transitions in Solid-State Synthesis of Cyclo Leu-Leu: Revelations and Implications [PC-123]
Ariel Perez Mellor, University of Geneva
D. Rosa Gastaldo, C. Besnard, N. Giamboni, D. Chernyshov , X. Wang, J. Brazard , R. Cerny, T. Adachi, T. Buergi

Production cross-section measurements of the medically relevant radionuclide thulium-167 using an 18-MeV medical cyclotron [PC-124]
Edoardo Renaldin, Paul Scherrer Institut, Villigen
G. Dellepiane, S. Braccini, N. P. van der Meulen, R. Eichler, Z. Talip

Influence of the collision Energy on the Reaction Rate of the $D_2^+ + H_2O$ Ion-Molecule Reaction near 0 K [PC-125]
David Schlander, ETH Zurich
R. Hahn, V. Zhelyazkova, F. Merkt

Characterisation of The Ground and Low-Lying Excited States of MgO^+ by PFI-ZEKE Photoelectron Spectroscopy [PC-126]
Joel Schmitz, ETH Zurich
C. Kreis, F. Merkt

2D-Raman THz Spectroscopy of Ionic Liquids [PC-127]
Saurabh Shukla, University of Zurich
A. Shalit, P. Hamm

Unveiling the Origin of the Lowest-Energy Electronic Absorption Band of Crystal Violet: Insights into Torsional Disorder and Symmetry Breaking [PC-128]
Jihad Sissaoui, University of Geneva
D. Budkina, E. Vauthey

Probing the mechanism of facile water dissociation on oxygen covered Cu(111) by Reflection Absorption Infrared Spectroscopy (RAIRS) [PC-129]
Mateusz Suchodol, EPFL Lausanne
R. D. Beck

Ligand exchange kinetics in the first reduction step of CO_2 reduction catalyst: trans-(Cl)- [Ru(5,5'-dimethyl-2,2′-bipyridine)$(CO)_2Cl_2$ [PC-130]
Luka Tatarashvili, University of Zurich
S. Aranda, K. Oppelt, P. Hamm

High-resolution spectroscopy and multichannel quantum-defect-theory analysis of high Rydberg states of xenon. [PC-131]
Eirini Toutoudaki, ETH Zurich
H. Herburger, U. Hollenstein, F. Merkt

Investigating Bimolecular Symmetry Breaking Charge Separation in Highly Concentrated Perylene Solutions [PC-132]
Johannes Wega, University of Geneva
E. Vauthey

Progress in the Zurich experiment on parity violation in chiral molecules [PC-133]
Gunther Wichmann, ETH Zurich
G. Seyfang, M. Quack

Trapping and sympathetic cooling of conformationally selected ions [PC-134]
Lei Xu, University of Basel
J. Toscano, S. Willitsch

Cold ion chemistry within a Rydberg electron orbit: the effect of the molecular structure at the lowest collision energies [PC-135]
Valentina Zhelyazkova, ETH Zurich
F. B. V. Martins, S. Schilling, J. A. Agner, H. Schmutz, F. Merkt

Evaporation of polonium from LBE-cooled reactors [PC-136]
Ivan Zivadinovic, ETH Zurich
P. J. Steinegger, J. Neuhausen

Thermosublimatographic study of Te volatile species formed over LBE melts. [PC-137]
Vladislav Zobnin, Paul Scherrer Institut, Villigen
A. Ivan, J. Neuhausen, R. Eichler

Polymers, Colloids & Interfaces [PCI] Poster Session

Metalorganic Copolymers From Iron(II) Clathrochelates: Versatile Materials and Conspicuous Adsorbents of Lithium Ions, Iodine, and Organic Dyes [PCI-101]
Bassam Alameddine, Gulf University for Science and Technology
N. Baig, S. Shetty

Revisiting Tröger's Base: Microporous Copolymers Via Sonogashira Cross-coupling and Thiol-Yne Click Reactions For Superior Iodine and Dyes Uptake [PCI-102]
Bassam Alameddine, Gulf University for Science and Technology
N. Baig, S. Shetty

One-dimensional carbon-based nanostructures via the droplet-assisted growth and shaping (DAGS) mechanism [PCI-103]
Rabab Azizi, University of Zurich
S. Seeger

Granular Elastomers for 3D Printing Applications [PCI-104]
Eva Baur, EPFL Lausanne
E. Amstad

Phenanthrene-based Light-Harvesting Supramolecular Polymers for photoredox catalysis [PCI-105]
Romain Brisse, University of Bern
A. Dutta, J. Réhaut, J. Jevric, I. Kolly, S. Langenegger, N. Banerji, P. Broekmann, S. Liu, R. Häner

Dynamic Synthesis of Bamboo-Shaped Silicone Nanorods to Control Water Repulsion and Collection [PCI-106]
Kangwei Chen, University of Zurich
S. Seeger

Self-assembly of cholane-pyrene oligomers [PCI-107]
Edouard Ehret, University of Bern
M. Thiede, S. M. Langenegger, R. Häner

Synthesis of hollow square macrocycle as nanochannels and hollow square helices [PCI-108]
Saquib Farooq, University of Fribourg
A. F. Kilbinger

Quantifying Förster-type energy transfer from single perovskite quantum dots to organic dyes [PCI-109]
Leon Feld, ETH Zurich
S. C. Boehme, V. Morad, Y. Sahin, D. Dirin, G. Rainò, M. V. Kovalenko

Tetraoxa [8]circulene-Based Porous Materials [PCI-110]
Patrick Fritz, University of Fribourg
A. Coskun

3D Printing of functional organoids at room temperature [PCI-111]
Rocío García Montero, EPFL Lausanne
E. Amstad

Scale-up strategy for lipidic mesophases production [PCI-112]
Rafaela Gazzi, University of Bern
P. Luciani, S. Aleandri

Hyperbranched polyarylethenes synthesized by successive C–H vinylation [PCI-113]
Anastasiia Gitlina, EPFL Lausanne
K. Severin

Switchable asymmetric water transport in dense nanocomposite membranes [PCI-114]
Luca Grillo, University of Fribourg
C. Weder

The key role of reaction engineering in catalytic recycling of HDPE and PP [PCI-115]
Shibashish Jaydev, ETH Zurich
K. Chikri, M. Usteri, A. J. Martín, G. Pagani, J. Pérez-Ramírez

Enabling reprocessability and flame retardancy of fiber reinforced epoxy composites via reactive approach [PCI-116]
Wenyu Klingler-Wu, Empa Dübendorf
V. Michaud, G. A. Barandun, S. Gaan

Silicone Nanofilament Coatings as Flexible Catalyst Supports for a Knoevenagel Condensation Reaction in Batch and Flow Systems [PCI-117]
Yuen-Yee Lau, University of Zurich
K. Chen, S. Liu, L. Reith, S. Seeger

Charge-Selectively Permeable Microcapsules [PCI-118]
Chuen-Ru Li, EPFL Lausanne
E. Amstad

Degradable Polymers via Catalytic Living ROMP [PCI-119]
Ankita Mandal, University of Fribourg
A. F. Kilbinger

A Handful of Sustainable Routes for Catalytic Ring-Opening Metathesis Polymerization [PCI-120]
Indradip Mandal, University of Fribourg
A. F. Kilbinger

Hierarchical Self-organization of Polymersomes and Janus Nanoparticles Mediated by DNA [PCI-121]
Voichita Mihali, University of Basel
C. Palivan

Insertion of dynamically self-assembling capsules into planar polymer membranes for specific guest uptake [PCI-122]
Moritz Muthwill, University of Basel
F. Sciortino, M. Bina, C. G. Palivan

Combating multidrug-resistant bacterial infections with peptide-loaded lipid-polymer hybrid nanoparticles [PCI-123]
Evangelos Natsaridis, FHNW Muttenz
R. Nicholas, D. Gaus, O. Tagit

Responsive supramolecular cross-links for healable double polymer networks [PCI-124]
Ilaria Onori, University of Fribourg
J. A. Berrocal, C. Weder

Modulating the Rate of Controlled Suzuki–Miyaura Catalyst-Transfer Polymerization by Boronate Tuning [PCI-125]
Hyunwoo Park, Seoul National University
J. Lee, S. Hwang, D. Kim, S. Hong, T. Choi

Unraveling the synthesis, structure, and properties of zirconia nanocrystals [PCI-126]
Rohan Pokratath, University of Basel
L. Laurent, S. Checchia, J. P. Mathew, S. J. Billinge, B. Abécassis, K. M. Jensen, J. De Roo

What we learnt from PEGylation of virus-like particles for vaccination [PCI-127]
Milad Radiom, ETH Zurich
S. Ganguillet, Y. Turgay, V. Lentsch, T. Keys, E. Causa, J. Kotar, P. Cicuta, R. Mezzenga, E. Slack

Surface functionalization strategies for optimal DNA biosensor performance [PCI-128]
Perrine Robin, EPFL Lausanne
A. Kavand, P. Skigin, L. Mayoraz, S. Marocco, J. Pagnoncelli, D. Staedler, I. Stefanini, S. Gerber-Lemaire

Cascade Cyclopolymerization of 5-Ethynyl-1,8-Nonadiyne Derivatives to Synthesize Low Band Gap Conjugated Polyacetylenes Containing a Fused Bicyclic Structure [PCI-129]
Hanseul Ryu, ETH Zurich
J. Sung, G. Kim, Y. Xu, R. H. Grubbs, T. Choi

Solution-processed phase-change memory from molecular telluride inks [PCI-130]
Florian Schenk, ETH Zurich
M. Yarema

Co-assembly of Shape Anisotropic Lead Halide Perovskite Nanocrystals into Functional Binary Superlattices [PCI-131]
Taras Sekh, ETH Zurich
I. CherniukhE. Kobiyama, T. Stöferle, R. Erni, G. Itskos, M. I. Bodnarchuk, M. V. Kovalenko

Lithium niobate nanoparticles functionalization with proteins for cancer active targeting [PCI-133]
Alessandra Spada, EPFL Lausanne
A. Gheata, S. Gerber

Supramolecular Assembly of Pyrene-DNA Conjugates into Columnar Vesicles [PCI-134]
Jan Thiede, University of Bern
I. Iacovache, S. Rothenbühler, S. M. Langenegger, B. Zuber, R. Häner

Unraveling Structure Formation in Tailor-Made Buriti Oil Emulsion during Simulated Digestion [PCI-135]
Rafael V M Freire, University of Fribourg
L. Hong, M. Peterek, S. Canarelli, S. Rezzi, S. Salentinig

Bio-Inspired Hierarchical Structure Formation in a Supramolecular Polymer [PCI-136]
Matthieu Wendling, EPFL Lausanne

Structural elucidation of shape-assisted self-assembled nanosheets from π-saddles [PCI-137]
Joseph Woods, University of Zurich
L. Gallego, C. Cuocci, G. Steinfeld, O. Blacque, B. Spingler, A. Vargas Jentzsch, M. Rickhaus

Size-Tunable Semiconducting 2D Nanorectangles from Conjugated Polyenyne Homopolymer Synthesized via Cascade Metathesis and Metallotropy Polymerization [PCI-138]
Namkyu Yun, ETH Zurich
C. Kang, S. Yang, S. Hwang, J. Park, T. Choi

Enhancing Volumetric Capacitance in pgBTTT Polymers through Ethylene Glycol Side Chain Variation and Blending Approaches [PCI-139]
Kaishuai Zhang, University of Bern
L. Bynens, N. Banerji, W. Maes

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