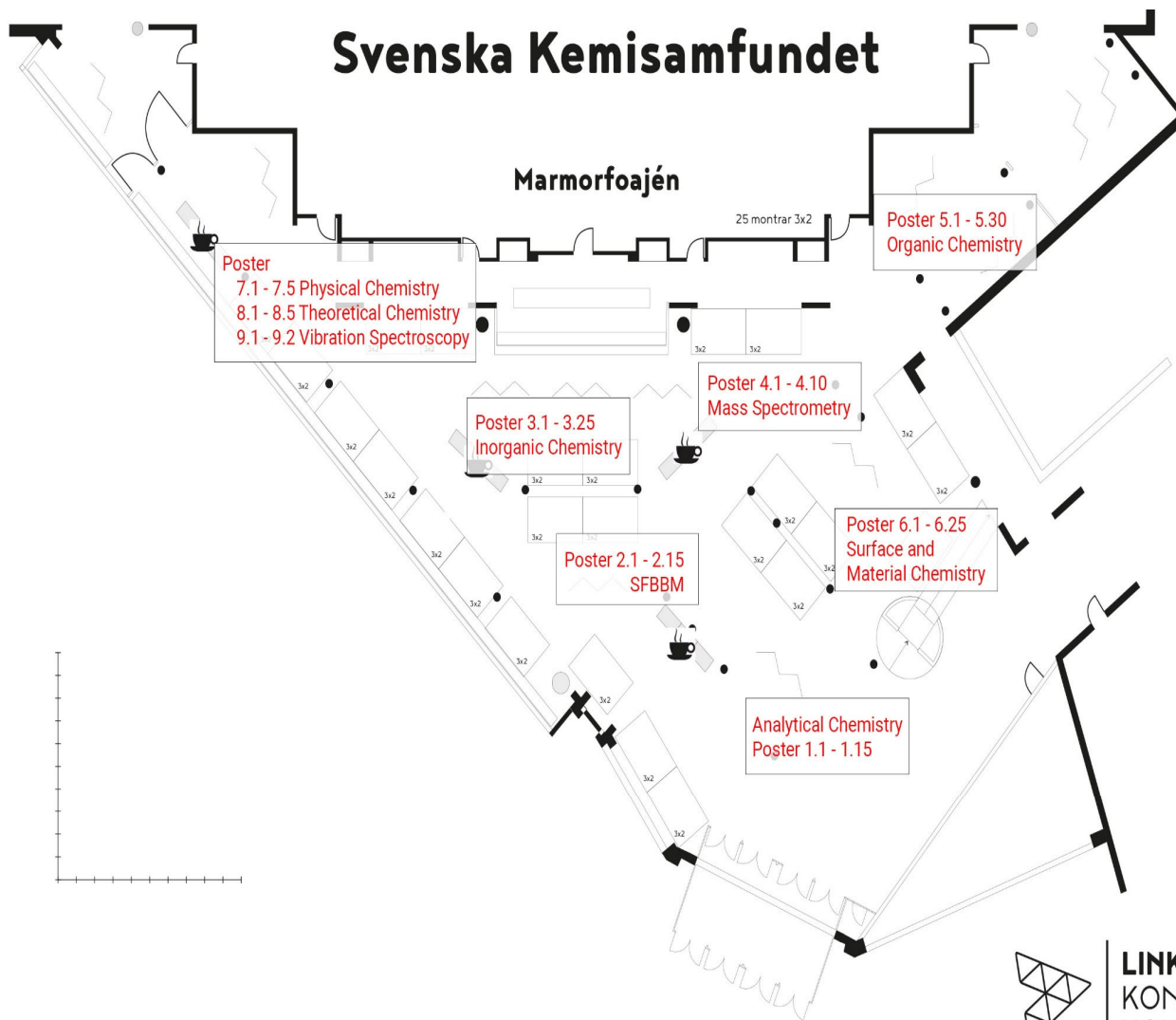


Svenska Kemisamfundet

Marmorfoajén



Poster Contribution SCS2022

Section for Analytical Chemistry (SAC)

- 1.1 **Mikael Axelsson** *SENSITIVE DETERMINATION OF IMPURITIES IN LITHIUM BATTERIES USING THE THERMO SCIENTIFIC ICAP PRO XP ICP-OES*
- 1.2 **Mikael Axelsson** *A NOVEL ICP-MS METHOD FOR SENSITIVE, ACCURATE AND HIGH-THROUGHPUT ANALYSIS OF BABY FOOD*
- 1.3 **Raychelle Burks** *Seeing Clearly: Benzoic Acid Derivatives as Visualization Agents of Latent Fingerprints*
- 1.4 **Vivek Chaturvedi** *A low-cost interdigitated electrode based setup for water sorption studies and humidity sensing applications*
- 1.5 **Åsa Emmer** *Capillary and microchip electrophoresis for monitoring of cell culture media in biopharmaceutical processes*
- 1.6 **Anne Farbrot** *Portable measurement of preservatives in air using new SPE-discs*
- 1.7 **Thamani Freedom Gondo** *Exploring selectivity of ternary CO₂-EtOH-H₂O mixtures for the extraction of antioxidants from seaweed*
- 1.8 **Firas Jumaah** *Exploring the bromodomain of SMARCA4 (BRG1) by Weak Affinity Chromatography (WAC™)*
- 1.9 **Shahla Namazkar** *Dermal bioaccessibility of listed PFAS ingredients in cosmetic products*
- 1.10 **Fiona Nermark** *Desulfurization of Morupule coal with subcritical aqueous ethanol extraction*
- 1.11 **Mynta Norberg** *REXiSiL – An upcoming toolkit for exploring lignin spaces*
- 1.12 **Daniel Papp** *Universal quantification of lignin dimers by supercritical fluid chromatography/charged aerosol detection*
- 1.13 **Tim Åström** *Imported clothes frequently contain high levels of disperse azo dyes and aromatic amines - A possible health risk and cause of textile allergy*

Section of Biochemistry, Biophysics and Molecular Biology (SFBBM)

- 2.1 **Luisa Beyer** *Discovery of new antimicrobial peptides from marine actinobacteria*
- 2.2 **Helen Farrants** *Switching a nanobody against fluorescent proteins on and off*
- 2.3 **Oxana Klementieva** *Drug development*
- 2.4 **Oxana Klementieva** *Food science*
- 2.5 **Oxana Klementieva** *New materials*
- 2.6 **Johan Larson** *HSP10 as a chaperone for neurodegenerative amyloid fibrils*
- 2.7 **Farjana Parvin** *Imaging A β amyloid fibril polymorphic structures in Drosophila and mouse models*
- 2.8 **Fatemeh Rasti Boroojeni** *Primary Human Fibroblasts Promote the Formation of Breast Cancer Spheroids in a 3D Bioprinted Cancer Model.*
- 2.9 **Anna Svärd** *Paper-Based Protease Sensor for Periodontal Assessment*
- 2.10 **Henrik Vinther Sørensen** *Encapsulation of Lysozyme in starch particles*
- 2.11 **Elisa Zattarin** *Self-Regulating Wound Dressing for the Treatment of Wound Infection*
- 2.12 **Hanna Zhdanova** *Chemical synthesis of transmembrane proteins: from ion channels to bio-inspired sensors*

Section for Inorganic Chemistry

- 3.1 **Rohan Bhimpuria** *Photophysical properties and excited-state reactivity of tris(trimethylsilyl)cyclopentadienyl Ln(III) complexes*
- 3.2 **Troy Breijaert** *Nanocellulose composite fibres with ferric*
- 3.3 **James Gardner** *2-Dimensional Perovskites: Phase Transitions & Photovoltaic Use*
- 3.4 **Alisa Gordeeva** *Phase relation and morphology of titania polymorphs in deep supercritical conditions: pure & industrially scalable brookite and TiO₂-II*
- 3.5 **Yogeshkumar Goriya** *Influence of Alkyl Chains on DSSC based on Fe N-Heterocyclic Carbene Photosensitizers*
- 3.6 **Björn Greijer** *POM-peptide complexes as models for metal oxide nanoparticle bioactivity*
- 3.7 **Arvind Kumar Gupta** *Incorporation of A Hydroxamic Acid Anchoring Group For DyeSensitized Solar Cells*
- 3.8 **Valtýr Hlynsson** *New Fe-NHC complex and the effect of ligand design on its electronic properties*
- 3.9 **Mahboubeh Jamshidisemiromi** *Copper Iodide Complexes with Perylene Diimides: Promising Materials for Optical and Electronic Applications*
- 3.10 **Dnyaneshwar Kand** *Introducing Umbrella Effect in Fe(II)-NHC Dyes for Improved Performance in Dye Sensitized Solar Cells (DSSCs)*
- 3.11 **Daniel Kocsi** *Tuning the photophysical properties of luminescent lanthanide complexes through regioselective antenna fluorination*
- 3.12 **Marijana Lakic** *Ligand chemistry and surface functionalization in approach to selective hybrid silica nano adsorbents*
- 3.13 **Nathan O'Brien** *Synthesis, Structure and Reactivity of a Radical Nickel(III) Triazenide*
- 3.14 **Per Persson** *ARTEMI - a National Research Infrastructure in Electron Microscopy*
- 3.15 **Suresh Rayavarapu** *Influence of Hagfeldt Donor on the performances of Fe-NHC based push-pull complexes*
- 3.16 **Rouzbeh Samii** *Group 11 Triazenides as Potential Chemical Vapor Deposition Precursors*
- 3.17 **Jesper Schwarz** *High Yielding Hydrogen Evolution Reaction driven by green light irradiation of an Fe N-Heterocyclic Carbene Photosensitiser*
- 3.18 **Kumkum Sharma** *Tetra -NHC based Cyclometalated Fe(III) Complexes as Molecular Photosensitizers: Synthesis and Structural Analysis*
- 3.19 **Irina Terekhina** *Valorisation of Glycerol via Electrooxidation on Palladium Nanocatalysts*
- 3.20 **Monika Tomar** *Development Of Catalytic Eu(II)-Mediated Reactions*
- 3.21 **Lars Öhrström** *Lanthanoid Metal-Organic Frameworks based on rods and hexagons with gated CO₂ sorption and chirality*

Section for Mass Spectrometry (SMS)

- 4.1 **Susana Cristobal** *Evaluation of thermal proteome profiling methodologies to identify membrane protein targets*
- 4.2 **Marius Gaedke** *Switchable Donor-Acceptor Rotaxanes Using Dynamic Covalent Chemistry in Water*
- 4.3 **Anneli Krueve** *Identification of chemicals possessing highest risk in water with non-target LC/HRMS analysis*
- 4.4 **Thomas Norberg** *Derivatization of sugars with N,O-dimethylhydroxylamine. Efficient RP-HPLC separation of sugar mixtures*
- 4.5 **Clara Schäfer** *Effect of the Aza-N-Bridge and Push-Pull Moieties: A Comparative Study between BODIPYs and Aza-BODIPYs*
- 4.6 **Mateusz Werlos** *Photocatalytic Synthesis of α,α -Difluoroalcohols*
- 4.7 **Jingjing Yu [2]** *Rotaxane Synthesis Based on Dynamic Covalent Boron Templates*

Section for Organic Chemistry (SOC)

- 5.1 **Anton Astré** *A Diastereoselective and Green Synthesis of Novel Polycyclic Nitrogen Heterocycles*
- 5.2 **Fredrik Barnå** *Solvent-free synthesis extra molam – an alternative to ball-milling*

- 5.3 **Linnea Björk** *Proteophenes - amino acid functionalized thiophene-based ligands*
- 5.4 **Satyajit Das** *Towards synthesis of polyrotaxanes from carbohydrate polymers*
- 5.5 **Prakriti Dhillon** *Switching the Regioselectivity of Cobalt-catalyzed C-H activation Annulation of Benzamides with 1,3-dienes*
- 5.6 **Davide Di Francesco** *Regiospecific allylation of β -O-4' aryl ether model via water tolerant catalysis*
- 5.7 **Simon Edin** *Small organic monomers capable of hydrogen-bonded tubular selfassembly*
- 5.8 **Måns Eriksson** *Synthesis of Diphenylacetylene Boronic Acid Derivatives for Hydroarylation of C60*
- 5.9 **Marius Gaedke** *Switchable Donor-Acceptor Rotaxanes Using Dynamic Covalent Chemistry in Water*
- 5.10 **Liang Fei** *MOST fabric for wearable energy management*
- 5.11 **Ellymay Goossens** *Activation of γ -carbon via aerobic oxidative NHC catalysis for the synthesis of tetra-substituted benzene rings*
- 5.12 **Jason Harper** *Kinetic analysis to drive solvent choice – picking an ionic liquid to get the outcome you want!*
- 5.13 **Helen Hölzel** *Molecular solar thermal energy storage (MOST) materials and the use of flow chemistry*
- 5.14 **Christoph Kern** *Titanium-Catalyzed Reductive Defunctionalizations*
- 5.15 **Julius Kyzmin** *Electrochemical reduction of C-S bonds*
- 5.16 **Fei Liang** *MOST fabric for wearable energy management*
- 5.17 **Fanny Lundmark** *From In Silico to In Vivo – Development of PSMA-targeting radioligands for Imaging of Prostate Cancer*
- 5.18 **Cristiana Margarita** *Zirconium-catalysed direct substitution of alcohols: enhancing the selectivity by kinetic analysis*
- 5.19 **Roberto Mastio** *Labeled xylosides as tools for glycosaminoglycan investigation*
- 5.20 **Thomas Norberg** *Derivatization of sugars with N,O-dimethylhydroxylamine. Efficient RP-HPLC separation of sugar mixtures*
- 5.21 **Esther Olaniran** *Design and Synthesis of Macrocyclic Insulin-regulated Aminopeptidase (IRAP) Inhibitors*
- 5.22 **Maria Quant** *Bicyclooctadienes Towards Molecular Solar Thermal Energy Storage Applications*
- 5.23 **Anja Ramström** *A rotaxane sensor based on switchable lanthanide luminescence*
- 5.24 **August Runemark** *Visible light driven EDA complex mediated synthesis of tetrahydroquinolines*
- 5.25 **Clara Schäfer** *Effect of the Aza-N-Bridge and Push–Pull Moieties: A Comparative Study between BODIPYs and Aza-BODIPYs*
- 5.26 **Marcus Söderström** *Thioacetylation and a Multi-Component Reaction Using BF₃-SMe₂*
- 5.27 **Monika Shamsabadi** *Norboradienes with combined molecular solar thermal system and phase change material function*
- 5.28 **Thomas Norin** *Orthogonal Flash Chromatography Reduces Organic Solvent Use While Maximizing Workflow*
- 5.29 **Mateusz Welos** *Photocatalytic Synthesis of α,α -Difluoroalcohols*
- 5.30 **Jingjing Yu** [2] *Rotaxane Synthesis Based on Dynamic Covalent Boron Templates*
- 5.31 **Jonas Rydfjord** *Acylamidines by Pd-catalyzed aminocarbonylation: one-pot cyclizations and 11C-labeling*

Section for Surface and Material Chemistry (SSMC)

- 6.1 **Ali Aya** *Reaction of Copper and Copper(I) Iodide with Iodine and Strong Field Ligands*
- 6.2 **Prasad Anaspure** *Palladium nanoparticles immobilized on polyethylenimine-derivatized gold surfaces for catalysis of Suzuki reaction: development and application in a lab-on-a-chip context*
- 6.3 **Athira Anil** *Cu-Pt electrocatalysts for glycerol electrooxidation reaction*
- 6.4 **Hannah Boyd** *MUC5B mucin films under mechanical confinement: A combined neutron reflectometry and atomic force microscopy study*
- 6.5 **Jian Chang** *Humidity Resistant and Mechanically Enhanced Graphene Oxide (GO)/Poly(ionic liquid) (PIL) Composite Films*
- 6.6 **Miao Zhang** *MXene Membrane with facilitated Water Transport: an Interlayer Engineering Strategy*
- 6.7 **Anna du Rietz** *Poly(acrylic acid) coated Cerium oxide nanoparticles with Gadolinium integration for targeted biomedical imaging purposes*
- 6.8 **Philipp Gaiser** *Surface immobilization of molecular catalysts using conducting redox polymers*
- 6.9 **Alisa Gordeeva** *Phase relation and morphology of titania polymorphs in deep supercritical conditions: pure & industrially scalable brookite and TiO₂-II*

- 6.10 **Frédéric Héraly** *Humidity-Sensitive Bilayer Actuator Derived from Cellulose Nanofibrils and Reduced Graphene Oxide*
- 6.11 **Jing-Jia Huang** *Controlled CVD growth of highly-oriented 3C-SiC*
- 6.12 **Anil Incel** *Sequence Specific Phosphopeptide Enrichment of ZAP-70 Regulatory Motifs using Epitope-imprinted Polymer Complements*
- 6.13 **Yan Jayin** *Assembly of 2D Materials by Poly(ionic liquid) for High-Performance Nanofiltration Membranes*
- 6.14 **Atefeh Khorsand Kheirabad** *Synthesis of Task Specific Porous Poly(ionic liquid) Membranes*
- 6.15 **Pamburayi Mpofu** *Thermal atomic layer deposition of In₂O₃ thin films using a homoleptic indium triazenide precursor and water .*
- 6.16 **Trinh Nguyen** *Charging of the amine moiety at the liquid / vapor interface: molecular insights revealed by vibrational sum frequency spectroscopy*
- 6.17 **Mark Rambaran** *Tunable surfaces from molecular building blocks*
- 6.18 **Carina Schiele** *Thermally insulating air- and ice-templated plant-based foams*
- 6.19 **Yulia Sergeeva** *Multivalent reversible self-assembled monolayers as a biomimetic platform for virus detection and inhibition*
- 6.20 **Fredric Svensson** *Facile Synthesis of Sulfate-Modified Titania Nanoparticles from Titanyl Sulfate: Catalytic Activity and Surface Properties*
- 6.21 **Fredric Svensson** *Interaction of Nano Titania in Hybrid Wound Dressings with Blood Proteins*
- 6.22 **Lu Yahua** *Preparation and properties of highly permeable two-dimensional Layered double*
- 6.23 **Savannah Zacharias** *Fill. Flush. Product. An investigation into building a reusable stationary phase using a catalytic gel.*
- 6.24 **Miao Zhang** *MXene Membrane with facilitated Water Transport: an Interlayer Engineering Strategy*

Section for Physical Chemistry (SPC)

- 7.1 **Igor Djerdj** *Band gap Engineering in Novel Fluorite-Type Rare Earth High Entropy Oxides (RE-HEOs) with Computational and Experimental Validation for Photocatalytic Water Splitting Applications*
- 7.2 **Elin Fossum** *Water-based electrolytes for Li-ion batteries*
- 7.3 **Karl Rönnbj** *OpenGibbs: A Statistical Thermodynamics-Equilibrium Software for Research and Teaching*
- 7.4 **Aleksander Tot** *Aqueous electrolytes for Li-ion batteries- hybride WISE approach*

Section for Theoretical Chemistry

- 8.1 **Iria Bolaño Losada** *Contrasting photoredox-interactions of earth-abundant photosensitizers with hydrogen reduction catalysts*
- 8.2 **Giane Damas** *On the Gas Phase Decomposition of Trimethylindium and Indium Trisguanidinate Precursors during the InN Deposition*
- 8.3 **Dusanka Golo** *Promoting Selective Generation of Formic Acid from CO₂ Using Mn(bpy)(CO)₃Br as Electrocatalyst and Triethylamine/Isopropanol as Additives*
- 8.4 **Manuel Hodecker** *Analytic Resonance Raman Intensities using the Complex Polarization Propagator Approach*

Section for Vibration Spectroscopy (SVS)

- 9.1 **Nils Lenngren** *Infrared spectroscopy at the user facility ELI Beamlines*

