

## **Session Program**

**10 October 2025**

**20 Years of MIN Faculty - Symposium**

**Poster Presentation - DESY Foyer (Building 5)**

# Friday 10 October

12:00

## Poster Presentation - DESY Foyer (Building 5): Poster Session 1

### Session |

**Location:** Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZOQ), Building 90

12:00–12:30

### Bacteria-Tumor Spheroid Co-Culture Model Labeled with Multi-Metal Nanoparticles and Its X-ray Fluorescence Imaging Study

#### Speaker

Shihao Zhou

12:00–12:30

### Synthesis and Self-Assembly of Titania Nanoplates and Their Encapsulation within a Polystyrene Shell via Photocatalytic Surface-Initiated Polymerization

#### Speaker

Jana Struck

12:00–12:30

### CMT-aaRS variants cause translational defect alleviated by cognate tRNA enhancement

#### Speaker

Sven Hürländer

12:00–12:30

### \*\*Metal Nanoparticle-Based Strategy for Enhanced Contrast in XRF Imaging\*\*

#### Speaker

Wenbo Wang

12:00–12:30

### Establishment of a Bioinformatic Pipeline to Characterize the Phase Separation of Proteins in Plant Cells

#### Speaker

Magdalena Weingartner

12:00–12:30

### Towards the stabilization of the FAPbI<sub>3</sub> based active layer

#### Speaker

Thorben Stoebke

12:00–12:30

### Introduction of the research group "Chemometrics of complex material systems"

#### Speaker

Stephan Seifert

12:00–12:30

### Category-theoretic properties of Haskell monads

#### Speaker

Marie Feddersen

12:00–12:30

### Developing Advanced Nanomedicines

**Speakers**

Neus Feliu Torres, Pascal Nakielski

12:00–12:30

**Going towards green Chemistry: Iron catalysed Suzuki cross coupling****Speaker**

Constanze von Meyenn

12:00–12:30

**Photocorrosion and protection of CuBi<sub>2</sub>O<sub>4</sub> electrodes monitored by operando surface-sensitive x-ray scattering and impedance spectroscopy****Speaker**

Francesco Caddeo

12:00–12:30

**Molecular Fingerprinting - Genomics, Proteomics and Metabolomics-based Artefact Profiling****Speaker**

Dr Marina Creydt

12:30

12:30

**Poster Presentation - DESY Foyer (Building 5): Poster Session 2****Session |**

**Location:** Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZOQ), Building 90

12:30–13:00

**Semiconductor Nanoparticle-based Gels as Photoactivated Gas Sensors****Speaker**

Jan Niklas Beyer

12:30–13:00

**Unraveling the mechanism of iron sulfide nanosheet formation: insights from in situ X-ray diffraction and photon-in photon-out spectroscopic studies****Speaker**

Cecilia Zito

12:30–13:00

**Colloidal Synthesis of Ultra-Large InAs Quantum Dots****Speaker**

Ekaterina Salikhova

12:30–13:00

**Photothermal Activation of Gold Nanoparticles Star-shaped Induces Calcium Release in T-lymphocytes****Speaker**

Maya Luongo

12:30–13:00

**Atomic Layer Deposition of Materials at the MIN Faculty: From History to Prospects****Speaker**

Robert Zierold

12:30–13:00

**Magnetic resonance imaging of slow flow in plants.**

**Speaker**

Noah Knorr

12:30–13:00

 **$\eta$ F (ETA factor) is involved in translation pace regulation in kinetoplastids****Speaker**

Dr Mayara Lucia Del Cistia

12:30–13:00

**Second-order superintegrable Hamiltonian systems via conformal and information geometry****Speaker**

Dr Andreas Vollmer

12:30–13:00

**Synthesis of Size and Surface Dependent Gold Nanoparticles for Future Bioaccumulation Studies****Speaker**

Magdalena Massar

12:30–13:00

**Overview of research in the Biophotonik Group****Speakers**

Florian Schulz, Neus Feliu Torres

12:30–13:00

**Climate Change and Food - Effects of Increased CO<sub>2</sub> Concentrations and Drought Stress on the Metabolic Profile of Soybeans****Speaker**

Dr Marina Creydt

12:30–13:00

**Optimizing Protein Corona Recovery from AuNPs for MS Quantification****Speakers**

Mr Jannis Jährling, Mr Noah Frantz

13:00

13:00

**Poster Presentation - DESY Foyer (Building 5): Poster Session 3****Session |**

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13:00–13:30

**CodSpotter****Speakers**

Josephine Buntrock, Juliane Niewar, Kilian Huss

13:00–13:30

**Whispers in the WAVES: Decoding Campus Vibrations with Distributed Acoustic Sensing****Speaker**

Vincent Wodtke

13:00–13:30

**Influence of Hydrophilicity on the Hydrovoltaic Power Generation from Carbon Nanoparticles**

**Speaker**

Dr Sanjay Jataw

13:00–13:30

**Topology and Origin of Complex Nano-Scale Spin Textures****Speaker**

Arved Heilmann

13:00–13:30

**X-Ray Fluorescence Microscopy based Cell Discrimination using Inorganic Nanoparticle Tag****Speaker**

Maya Luongo

13:00–13:30

**Molecular Mechanisms of Long-Distance Signaling in Plants****Speaker**

Anton Reza

13:00–13:30

**Photoactivated Titania Nanocrystal Chemiresistors for the Detection of VOCs****Speaker**

Finn Dobschall

13:00–13:30

**Improving the mechanical strength and photocatalytic activity of 3D-structured titania aerogels by ALD coating****Speaker**

Malte Maximilian Schmidt

13:00–13:30

**Determining the fate of engineered tRNAs in human cells by direct RNA sequencing****Speaker**

Mr Daniel Koester

13:00–13:30

**Intra- and Post-Synthesis Optimization of thermochromic  $\alpha$ -NiS Nanoparticles****Speaker**

Ole Krüger

13:00–13:30

**Translating the hygroscopic principles of explosively dehiscent fruits into bioinspired actuators****Speaker**

Fabian Scheckenbach

13:30

13:30

**Poster Presentation - DESY Foyer (Building 5): Poster Session 4****Session |**

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13:30–14:00

**Cation-Site Disordered Cu<sub>3</sub>PdN Nanoparticles for Hydrogen Evolution Electrocatalysis**

**Speaker**

Jagadesh Kopula Kesavan

13:30–14:00

**Efficient workflow for demultiplexing and mapping of direct tRNA sequencing****Speaker**

Daniel KÅrster

13:30–14:00

**Aerogels made from Semiconductor Nanoparticles****Speaker**

Pia Thomsen

13:30–14:00

**Implementing electric field-stimulated X-ray crystallography at EMBL P14 T-REXX using Hadamard time-resolved X-ray crystallography****Speaker**

Maggie Klureza

13:30–14:00

**Quantum Radiometric Calibration****Speaker**

Leif Albers

13:30–14:00

**Strategic Phosphorus Allocation Under Stress: Root-Mycorrhizal Traits Driving Nutrient Efficiency in Forests****Speaker**

Li Yan

13:30–14:00

**Unravelling Protein Dynamics: Advancing Structural Biology with Time-Resolved Crystallography****Speaker**

Maria Spiliopoulou

13:30–14:00

**Liposome-based SERS Sensor system for double readout of intracellular Iron concentrations and pH changes****Speaker**

Chengxiu Wei

13:30–14:00

**Green Synthesis of Complex Chemical Building Blocks: Light-Mediated Oxygenation of Phenols****Speaker**

Ben Bimberg

13:30–14:00

**Modular Reactor for In Situ X-ray Scattering, Spectroscopy, and ATR-IR Studies of Solvothermal Nanoparticle Synthesis****Speakers**

Melike Gumus Akcaalan, Sani Harouna-Mayer, Tjark Leon Raphael Gröne

14:00