NanoLund annual meeting 2025 posters

Name	Division	Poster title	Research area
Adamantia Logotheti	Solid State Physics	Fabrication of AlGaN FinFET in a-plane direction on ammonothermal substrates	Semiconductor Technology
Aidas Urbonavicius	Centre for Analysis and Synthesis	Scalable synthesis method of Zn3P2 thin films for solar cells	Semiconductor Technology
Ajeet Kumar	Chemical Physics	Tracking Light-Harvesting in Photosystem I on the Ultrafast Scale	Life Science & Nano; Photons
Ajsa Cuprija	Synchrotron Radiation Research	Sugar-Assisted Transfer Printing of Nanostructures onto Non-Flat Industrial Surfaces	Materials & Manufacturing
Akshat Mishra	Mathematical Physics	Dual Fermion Approach to the Falicov Kimball Model	Materials & Manufacturing
Alva Höglund	Solid State Physics	Predicting properties of quantum states from charge measurements	Quantum Physics
Andrea Cicovic	Solid State Physics	Protected Charge Readout utilizing Nonlinear Resonators	Quantum Physics
Axl Eriksson	Chemical Physics	Spectroelectrochemical wavelength scan in UV – NIR reveals photocatalytic mechanisms and hotspots	Photons; Semiconductor Technology
Azemina Kraina	Centre for Analysis and Synthesis	Combining III-Ps with FexPy in Nanowires	Materials & Manufacturing
Damien Hughes	Chemical Biology and Therapeutics	Lithography-free Water Stable Conductive Polymer Nanowires	Life Science & Nano
Davide Lombardo	Electromagnetics & Nanoelectronics	Noise Properties of Nanoscale Ferroelectric Tunnel Junctions	Materials & Manufacturing
Edoardo Amarotti	Chemical Physics	Excitation dynamics in perovskite solar cells probed by photocurrent detected 2D spectroscopy	Photons
Emelie Zhu and Mariia Lamers	Solid State Physics	Sustainable high-efficiency multi-junction nanowire solar cells	Photons; Semiconductor Technology
Enrico Turato	Solid State Physics	Passive Viscoelastic Fluidic Components	Life Science & Nano
Esra Yilmaz	Solid State Physics	Unraveling Breast Cancer Heterogeneity: Microfluidic Sorting and Bioassay-Based Functional Analysis	Life Science & Nano
Ferdinand Omlor	Solid State Physics	Coupling Electron Spins to Double Quantum Dot Rings	Quantum Physics
Grace Carey and Laura de la Fuente Esteban	Solid State Physics	Towards remote epitaxy: optimisation of β-Ga2O3 films with Pulsed Laser Deposition	Materials & Manufacturing Semiconductor technology
Hajar Jalili	Synchrotron Radiation Research	Self-assembled nanostructures: Nanowires, bimagnetic composites, and medium/high-entropy alloys	Materials & Manufacturing
Hedda Christine Soland	Centre for Analysis and Synthesis	Selective transformation axial ferromagnetic MnAs segments in GaAs nanowires in MOCVD	Materials & Manufacturing
Hilma Holmström	Solid State Physics	Thermal microwave emission and absorption	Photons; Quantum Physics
Jake Hardy	Synchrotron Radiation Research	Single CsPbBr3 Perovskite Nanowire Devices for Photonic Integrated Circuits	Semiconductor Technology
Jeevan Rois	Synchrotron Radiation Research	Metasurface Fabrication using Damascene Lithography	Materials & Manufacturing; Photons
Jens Uhlig	Chemical Physics	KiMoPack, Using the evolution to gain knowledge	Photons
Jesper Wallentin	Synchrotron Radiation Research	Deep Sub-Wavelength 3D Imaging Using a Single Nanowire Detector	Photons; Semiconductor Technology
Julia Valderas Gutierrez	Solid State Physics	Dynamics and single molecule detection of biological membranes on lightguiding nanowires	Life Science & Nano
Kalle Kansanen	Mathematical Physics	Photon counting statistics in Gaussian bosonic networks	Quantum Physics
Klara Suchan	Synchrotron Radiation Research	Nanoscale Dynamics probed by X-ray Scattering	Materials & Manufacturing; Photons
Leonardo Oliveira	Lund University, Max IV	Addressing NanoLED Emission Losses via Strain and XEOL Mapping at NanoMAX	Semiconductor Technology

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Lidiia Varhanik	Chemical Physics	AI/ML Impact Areas in Physics and Materials Discovery of Halide Perovskite Nanomaterials	Materials & Manufacturing
Linnéa Jönsson	Solid State Physics	Time-resolved analysis of nanoparticle composition	Materials & Manufacturing
Mark Rambaran	Centre for Analysis and Synthesis	Electrochemical and vibrational spectroscopic behavior of transition metal dichalcogenides	Materials & Manufacturing Semiconductor Technology
Marshall Machingauta	Physical Chemistry	Sponge Phase Lipid Nanoparticles for Biomolecular Delivery: Microfluidic Synthesis and Membrane Interaction Studies	Life Science & Nano
Maurice Schenker	Chemical Physics	Shedding Light on the Excited State Dynamics of DNA-Templated Silver Nanoclusters	Life Science & Nano; Photons
Maximilian Nitsch	Solid State Physics	Adiabatic nonabelian braiding of imperfect Majoranas	Quantum Physics
Patrik Nilsson	Solid State Physics	Informing motor protein design by employing Single Molecule FRET Microscopy and microfludics	Life Science & Nano
Praneeth Rajashekar	Iprod	Dephosphorization of Copper Phosphide to Copper	Materials & Manufacturing
Qinqi Zhou	Centre for Analysis and Synthesis	Lead-free halide perovskite supported Pt single-atom photocatalyst	Materials & Manufacturing
Reyhaneh Ghaeminejad	Solid State Physics	Characterization of Thermal Gradient-Induced Noise in Semiconductor Quantum Dots	Quantum Physics
Ruby Davtyan	Solid State Physics	Turning Nanowires into 3D Molecular Trackers through Point Spread Function Detection	Life Science & Nano
Samuel Andersson	Solid State Physics	Viewing the Transmon as a High-Impedance Resonator	Quantum Physics
Sankaran Ramesh	Chemical Physics	Plexcitons in Chiral Nanoparticle-Dye Hybrids	Quantum Physics
Shreemoyee Chakraborty	Solid State Physics	GaN FinFETs and High-k Dielectrics: A Synchrotron XPS Study of Interface Chemistry	Semiconductor Technology
Simon Liedtke	Computational Chemistry	Reaction-Diffusion Simulations of Photoredox Processes in Solution	Materials & Manufacturing
Sina Ritter	Solid State Physics	The Path to a Walking Protein	Life Science & Nano
Sunardi Rahman	Centre for Analysis and Synthesis	Lead-Free Tin-Based Layered Double Perovskite Nanocrystals	Materials & Manufacturing
Thea Kristersdotter	Solid State Physics (FTF)	Sponge Phase Nanoparticles for Drug Delivery Purposes	Life Science & Nano
Thomas Kjellberg Jensen	Synchrotron Radiation Research	Optoelectronic Nanowire Neuron	Photons; Semiconductor Technology
Tommy Cedervall	Biochemistry and Structural Biology	Nanopartikelns Hemlighet - the movie	Nanosafety
Umut Aydemir	Chemical Biology and Therapeutics	In Situ Assembly of an Injectable Cardiac Stimulator	Life Science & Nano
William Samuelson	Solid state physics	Quantifying robustness and locality of Majoranas in interacting systems	Quantum Physics
Yue Zhao	Solid State Physcis	indirect to direct bandgap charge carrier diffusion induced nanowire light emitting diodes	Semiconductor Technology
Yukta Yukta	Centre for Analysis and Synthesis	Lattice Engineering of Lead-Free Layered Double Perovskite Nanocrystals for Photoelectrochemical Applications	Materials & Manufacturing
Zeliha Idil Yondu	Iprod	Examining Phosphorus Effects on Base Materials: A Microstructural Perspective	Materials & Manufacturing
Zesen Zhou	Synchrotron Radiation Research	Engineering Photon Density of States (pDOS) in 3D Photonic Metamaterials	Photons
Ziyun Huang	Synchrotron Radiation Research	Controlled Ligand-Free Growth of Free-Standing CsPbBr3 Perov-skite Nanowires	Semiconductor Technology