



The 14th International Conference on Optics of Surfaces and Interfaces (OSI-14)

Mauterndorf, Austria, 19-23th February 2024

PROGRAM

Monday, 19.02.2024

10:00 Start Registration

13:45 14:15 Welcome

14:15 14:30 Opening

14:30 15:30 Friedhelm Bechstedt (I) *"Ab-initio approaches toward a quantitative description of the dielectric function: bulk, surfaces, nanostructures"*

15:30 16:00 Luis Mochan *"Efficient homogenization of multicomponent metamaterials: chiral effects"*

16:00 16:30 Coffee Break

16:30 17:00 Bernardo Mendoza *"Ab Initio Theory of Third Harmonic Generation"*

17:00 17:45 Raul Esquivel Sirvent (I) *"Super-Planckian emission and the Optical Properties of Surfaces"*

Tuesday, 20.02.2024

08:30 09:15 Manuela Schiek (I) *"The Marvel of Charge-Transfer Excitons in Chiral Squaraine Thin Films"*

09:15 09:45 Robert Schwarzl *"Higher excited states in anilino squaraines resolved via transient absorption microscopy"*

09:45 10:15 Kjeld Pedersen *"Optical characterization of oblique angle deposited piezoelectric nitride nanowires"*

10:15 10:45 Coffee Break

10:45 11:15 Mateusz Rebarz *"ELI ERIC: new capabilities for applications in molecular, bio-medical and material science"*

11:15 11:45 Ferdinand Bammer *"Ellipsometric Measurements on Oil-layers on Technical Surfaces"*

11:45 12:15 Shirly Espinoza *"Insights into the ultra-fast optical behavior of ellagic acid thin films"*

18:00 20:00 Poster Session

Wednesday, 21.02.2024

08:30 09:15 *"Naresh Kumar (I) Monitoring On-Surface Catalytic Processes at the Nanoscale using Tip-Enhanced Raman Spectroscopy"*

09:15 09:45 Norbert Esser *"Raman scattering at surface phonons"*

09:45 10:30 Kenan Gongdogdu (I) *"Room Temperature Superfluorescence in Lead Halide Perovskites and its Implications for Quantum Materials"*

10:15 10:45 Coffee Break

11:00 11:45 Volodymyr Dzhagan (I) zoom *"Optical spectroscopy of colloidal quantum dots"*

17:00 17:30 Claudia B. Lopez "Posadas Molecular orientation of DHTAP on Cu(110) and thenanostructured Cu-CuO stripe phase"

17:30 18:00 Claudio Goletti "Reflectance anisotropy spectroscopy of GaAsBi alloys: from strain-engineered to growth-faulted sample."

18:00 18:30 Coffee Break

18:30 19:15 Roberto Rosati (I) "Interface engineering of charge-transfer excitons in 2D lateral heterostructures"

19:15 19:45 Dietrich Zahn "Optical spectroscopy of twisted bilayers of two-dimensional transition metal dichalcogenide semiconductors"

Thursday, 22.02.2024

08:30 09:15 Matthias M. May (I) zoom "Electrochemical Reflection Anisotropy Spectroscopy on III-V Photoelectrodes and Al Batteries"

09:15 09:45 Luis Rosillo Orozco "Spectroscopic Ellipsometry as a method to study band-bending in solid liquid interfaces"

09:45 10:15 Christoph Cobet "The Formation of Copper-Oxides in Electrochemical Environments"

10:15 10:45 Coffee Break

10:45 11:15 Alexey Minenkov "Understanding the Evolution of Electrochemically Treated ITO layers with operando Ellipsometry enhanced by Electron Microscopy and Spectroscopy"

11:15 12:00 Alberto Calloni (I) "Combining optical and microscopic investigations to disclose the intercalation mechanisms at the graphite/electrolyte interface"

18:00 22:00 Dinner

Friday, 23.02.2024

ATMOC

08:30 09:00 Nando Hegemann "Solving inverse problems in scatterometry through diffusion modelling"

09:00 09:15 Maren Casfor "Forwardmodel for Scatterometry measurements to estimate Optical Constants using Bayesian Inversion"

09:15 09:45 Oliver Henze "Bayesian inversion and error modelling to determine optical constants for ultra-thin layer systems"

09:45 10:15 Coffee Break

10:15 10:45 Julian Plaickner "Synchrotron-based VUV ellipsometry on passivated Si samples for optical thin film metrology"

10:45 11:15 Mattia Mulazzi "Determination and cross-validation of the optical constants of Silicon and native SiO₂ in the VUV energy range by ellipsometry and reflectometry"

11:15 11:45 Manuela Schiek "Imaging Ellipsometry of Sub-Wavelength Gold Nanostructures including Cross-Polarization Effects"

11:45 Farewell Drink

