



# Joint Annual Meeting of ÖPG and SPS 2021

## Tuesday, August 31, 2021

### Surfaces, Interfaces and Thin Films: I: 2D materials - Room C (1:30 PM - 4:00 PM)

time	[id] title	presenter
1:30 PM	[281] □201□Borophene synthesis on an anisotropic Pt(110) surface	STEINER, Dominik
1:45 PM	[237] □202□Non-classical, two-step nucleation of h-BN on Pt(110)	THALER, Marco
2:00 PM	[316] □203□Band structure and image potential states of h-BN/Cu(111)	Mr BECKORD, Jan Eric
2:15 PM	[285] □204□From energy dissipation on Dirac materials to open questions in 2D materials growth	Dr TAMTÖGL, Anton
2:30 PM	[307] □205□Probing magnetism of iron-rich phyllosilicates: semi-quantitative Magnetic Force Microscopy of 2D-van der Waals magnets in the monolayer limit	LUDESCHER, Lukas
2:45 PM	[378] □206□Excitation Spectrum of Spin Orbit Coupled Monolayers	KREIL, Dominik
3:00 PM	[73] □207□Magnetic tuning of mechanical dissipation in quantum graphene	OLLIER, Alexina
3:15 PM	[395] □208□Cubic response of 2-dimensional charge layers	BÖHM, Helga
3:30 PM	[379] □209□Quantification of Aligned GNRs Transfer Efficiency Using Raman Spectroscopy	DARAWISH, Rimah
3:45 PM	[232] □210□On-surface synthesis of graphene nanoribbons on the superconducting Ag/Nb(110) substrate	LIU, Jung-Ching

### Surfaces, Interfaces and Thin Films: II: Metal Oxides - Room C (4:30 PM - 6:45 PM)

time	[id] title	presenter
4:30 PM	[99] □211□UHV Growth and Characterization of Ga <sub>2</sub> O <sub>3</sub> on Cu <sub>2</sub> O(111)	TASKIN, Mert
4:45 PM	[200] □212□Investigations of polarons in hematite $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> (1 $\overline{1}$ 0 <sub>2</sub> ) by means of nc-AFM and KMC	Dr REDONDO, Jesús
5:00 PM	[119] □213□Thermal stability and CO-induced mobility of single Pt adatoms supported on the $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> (11 $\overline{0}$ 2) surface	Mr RAFSANJANI ABBASI, Ali
5:15 PM	[178] □214□Comparison of single Rh adatoms on $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> (1-102) and TiO <sub>2</sub> (110) stabilized by adsorbed water	HAAGER, Lena
5:30 PM	[180] □215□Polarons in Single Atom Catalysts: Case Study of Me <sub>1</sub> =[Au <sub>1</sub> ,Pt <sub>1</sub> ,Rh <sub>1</sub> ] on TiO <sub>2</sub> (110)	Mr SOMBUT, Panukorn
5:45 PM	[291] □216□Local hydrophobicity on an oxide surface: In <sub>2</sub> O <sub>3</sub> (111)	WAGNER, Margareta
6:00 PM	[306] □217□The polar KTaO <sub>3</sub> (001) surface: Electronic structure and CO adsorption	SETVIN, Martin
6:15 PM	[275] □218□Bulk-terminated SrTiO <sub>3</sub> (001) studied at the atomic scale with nc-AFM	SOKOLOVIĆ, Igor
6:30 PM	[264] □219□Enhancing magnetism in ultrathin La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> films using antiferromagnetic buffer layers	STRAMAGLIA, Federico

# Wednesday, September 1, 2021

## Surfaces, Interfaces and Thin Films: III: Method Development - Room C (2:00 PM - 4:30 PM)

time	[id] title	presenter
2:00 PM	[63] □221□Real-time MOKE measurements of CoTMPP on magnetic Ni/Cu(110)-(2x1)O	Ms MENDIREK, Gizem
2:15 PM	[185] □222□Vienna Package for TensErLEED I: A new environment for analysis and calculation of LEED I(V) data	KRAUSHOFER, Florian
2:30 PM	[216] □223□Thermal desorption of organic molecules from cellulose based surfaces	SCHENNACH, Robert
2:45 PM	[267] □224□Fast Acquisition of Force Volume Data in Atomic Force Microscopy at Cryostatic Temperatures with a Tuning Fork Cantilever using Intermodulation Products	ZUTTER, Marco
3:00 PM	[353] □225□Lippmann-Schwinger Description of the Final State in Photoemission Simulations	SCHWENDT, Mathias
3:15 PM	[361] □226□Photoemission Tomography on the Time-Domain: Simulation of Photoelectron Spectroscopy from Time-Dependent Density Functional Theory	Mr KERN, Christian Simon
3:30 PM	[243] □227□Surface hydrogen concentration on metal hydrides by electron spectroscopy	BILLETER, Emanuel
3:45 PM	[57] □228□Factors influencing surface carbon contamination in ambient-pressure X-ray photoelectron spectroscopy (APXPS) experiments	COMINI, Nicolo
4:00 PM	[132] □229□Design of an IRAS Setup to Investigate Adsorbates on Metal-Oxide Single Crystals	RATH, David
4:15 PM	[319] □230□Sub-picosecond transient absorption of PbS nanocrystals on gold	GRIMALDI, Dario

## Surfaces, Interfaces and Thin Films: IV: Molecules on Surfaces - Room C (5:00 PM - 7:00 PM)

time	[id] title	presenter
5:00 PM	[27] □231□Interfacial Actinide Coordination Chemistry: Bis(porphyrinato)thorium Formation, Rotation, and Characterization	RHEINFRANK, Erik
5:15 PM	[50] □232□Molecular orientation and phase transitions of DHTAP on Cu(110)	LÓPEZ-POSADAS, Claudia
5:30 PM	[58] □233□Uni-directional rotation of molecular motors on Cu(111)	SCHIED, Monika
5:45 PM	[310] □234□Charge Transfer on Organo-Metallic Interfaces Controlled by Adsorbate Orientation	BONÉ, Thomas Georg
6:00 PM	[339] □235□Morphology drives the self-metalation of porphyrins on flat, thin MgO films.	Dr PRESEL, Francesco
6:15 PM	[317] □236□Stable metal-organic network on a weakly-interacting substrate: Fe-TCNQ on graphene	Dr JAKUB, Zdenek
6:30 PM	[325] □237□Special Structures of a Prototypical Organic-Semiconductor Transparent-Electrode Interface: CuPc on In <sub>2</sub> O <sub>3</sub> (111)	BLATNIK, Matthias
6:45 PM	[100] □238□Biomimetic Passive Cooling	HAMMEL, August

# Thursday, September 2, 2021

## Surfaces, Interfaces and Thin Films: V: Thin Films and Interfaces - Room C (2:30 PM - 4:30 PM)

time	[id] title	presenter
2:30 PM	[59] □241□Core@multi-shell structures in helium droplets: Au nanoparticles covered by a hexane layer and rhodamine B fluorophores	Dr LACKNER, Florian
2:45 PM	[72] □242□Color-Changing Coatings to Detect Critical-Temperature Conditions in High-Performance Fiber Applications	HEGEMANN, Dirk
3:00 PM	[122] □243□Growth and morphology of ultrathin lithium fluoride deposited on Ag(100)	ROMANKOV, Vladyslav
3:15 PM	[190] □244□Hybrid plasmon-phonon surface modes at CdZnO-sapphire interfaces: Grating coupling and applications	MARTÍNEZ CASTELLANO, Eduardo
3:30 PM	[250] □245□Electrical Excitation of Long□Range Surface Plasmons in Photonic Crystal/OLED Structure with Two Metal Nanolayers	Dr SEKATSKI, Serguei
3:45 PM	[157] □246□Momentum-resolved electronic structure of a NbN/GaN superconductor/semiconductor heterojunction	STROCOV, Vladimir N.
4:00 PM	[75] □247□Aluminum and Copper Thin Contacts Augmented with Gallium for Flexible Electronics Applications	Dr MINENKOV, Alexey