POSTER session

DAY 1: December 3 (Tue.), 2024
18:30 – 20:00 (90 min)

#	NAME	TITLE
P1	Ibrahima Gueye	Surface Charge Compensation Strategies in Ambient Pressure HAXPES for Analysing Metal Nanoparticles on Oxide Supports
P2	Shucheng Shi	A new lab-based operando XPS method for probing liquid/solid and gas/solid interfaces across a variety of electrochemical systems
P3	Cristiano Kasdorf Giesbrecht	Combining surface analysis techniques under controlled atmosphere conditions? laboratory concept
P4	Sven L. M. Schroeder	Probing Organic Solid/Liquid Interfaces In Situ with Laboratory NAP XPS: Challenges and Opportunities
P5	Mihiro Kubo	Development of near-ambient-pressure low-energy inverse photoelectron spectroscopy to measure unoccupied states under the vapor pressure of water
P6	Mariko Kinoshita	A novel method to evaluate surface electronic state of α-Fe_2O_3 particles dispersed in aqueous solution: an approach using photoemission yield spectroscopy in air
P7	Slavomir Nemsak	PyXRO? a modern tool for calculating X-ray photoelectron spectroscopy including X-ray optical effects and more
P8	Hariprasad P. Kalappurackal	APXPS setup for the in situ and operando investigation of atomic layer deposition.
P9	Chun-Yu Liu	Measuring Three Dimensional Memory Nanostructures Using X-Ray Critical Dimension Metrology
P10	Satoru Suzuki	Environmental Charge Compensation in Near-Ambient Pressure Photoelectron Spectroscopy Enhanced by Large Sample? Aperture Cone Distance
P11	Lo Yueh Chang	in situ/operando soft X-ray absorption spectroscopy (sXAS) by a flowing liquid cell in TLS/TPS
P12	Mathieu G. Silly	TEMPO beamline: time resolved photoemission spectroscopy from UHV to to near ambient pressure
P13	Anna B. Wach	SOLARIS National Synchrotron Radiation Centre: the infrastructure for science and industry
P14	Ryo Toyoshima	Operando XPS measurements for understanding working principle of metal thin-film gas sensors.
P15	AndrewJ. Britton	Investigating biofilms of live antibiotic resistant bacteria in-situ
P16	Chaimaa Fikry	In-vacuo surface characterisation of functional coating materials with APXPS
P17	Satoshi Yasuno	Characterization of sodium-ion batteries by ambient pressure hard X-ray photoelectron spectroscopy
P18	Beomgyun Jeong	in situ hydration of hygroscopic electrolyte for AP-HAXPES of electrochemical interfaces
P19	Chueh-Cheng Yang	Exploring the species evolution of the IrPt electrocatalysts during OER via APXPS with an electrochemical cell using different polymer membranes
P20	Yasumasa Takagi	Change in electronic state of $CaNi_5$ during hydrogen absorption and desorption
P21	Haruto Sakurai	Reactions on Boron-Induced Cu(111) Surfaces

P22	Hojoon Lim	CO-induced Surface Dynamics and Carbonyl Formation in RhCu(111) Single-Atom Alloys
P23	Dongwoo Kim	A study of CO_2 dissociation properties on $Pt_3Sn(111)$ surface with Ambient pressure XPS
P24	Yu Murano	CO_2 Activation on a Ni(111) Surface in the Presence of Hydrogen Gas
P25	Subin Jang	Study of CO_2 dissociation on Pt-Ga (111) alloy surface
P26	Hung Shuo Su	Control and CO_2 Capture of Surface Defects of Layered $TiTe_2$
P27	Ting-Yun Cheng	Unraveling the Mechanistic Insights into the Electrochemical Reduction of CO_2 to CO on Single Atom Catalysts
P28	Kyungmin Kim	Exploring CO_2 Adsorption Behaviors on the $SrTiO_3(001)$ Surface with Ambient Pressure XPS
P29	Jiayi Tang	Ambient-pressure XPS study of CO Oxidation on PdRu and PtRu alloy nanoparticles
P30	Ivan Khalakhan	Tracking surface compositional dynamics of Pt-based bimetallic alloys under redox conditions using NAP-XPS
P31	Pardis Simon	FeMo-based catalysts for acrolein production: An in situ X-ray Photoelectron Spectroscopy study
P32	Masaki Nakamura	Formation and characterization of oxygen vacancies in oxide semiconductors using near-ambient-pressure hard X-ray photoelectron spectroscopy
P33	Zong-Jhe Hsieh	The approach of thermal reduction to the water storage capability of graphene oxide membrane
P34	Dooyong Lee	Investigation of Surface Chemical State of $SrFeO_{2.5}$ Films during Topotactic Phase Transition with Ambient Pressure X-ray Photoelectron Spectroscopy
P35	Chia-Hsin Wang	Revealing the Reaction Mechanism of Phosphorus-substituted $FeCo_2O_4$ Electrocatalysts for Oxygen Evolution Reaction by APXPS
P36	Hyunsuk Shin	Investigations on the origin of topotactic phase transition of $LaCoO_3$ thin films with in situ XRD and AP-HAXPES
P37	Ryu Yukawa	Ambient Pressure X-ray Photoelectron Spectroscopy Study of Insulator Crystals: $La_2Zr_2O_7$ and $La_2Hf_2O_7$
P38	Jilong Xu	High-throughput Operando Energy Spectroscopy Beamline