

## Poster session Thursday, December 8, 2022

### Surface science/chemistry

15	Effect of oxidation of vanadium diselenides (VSe <sub>2</sub> ) thin film on water adsorption properties under ambient water vapor condition	Hyukjin Kim (University of Seoul)
21	Towards CO <sub>2</sub> hydrogenation: A combined (NAP-)XPS and DFT study on In <sub>2</sub> O <sub>3</sub> (111) model catalysts	Sabrina Gericke (Lund University)
34	Ambient pressure X-ray absorption spectroscopy at the In situ and Operando Soft X-ray Spectroscopy (IOS) beamline at NSLS-II	Iradwikanari Waluyo (Brookhaven National Laboratory)
35	AP-XPS Study of surface potential variation during X-ray resonance	Minsik Seo (Gwangju Institute of Science and Technology)
39	In situ observation of an atomically modified glassy carbon surface: From synthesis of an Fe-N-C catalyst to intrinsic combined reactions of hydrogen dissociation and the oxygen reduction reaction	Geonhwa Kim (Pohang Accelerator Laboratory)
42	Acid-Base chemistry at solid-gas interfaces	Thorsten Bartels-Rausch (Paul Scherrer Institut)
62	The role of Oxygen States in NiO for Oxygen Evolution Reactions	Aliakbar Ghafari (Max Planck Institute)
65	Initial Oxidation of Ruthenium(0001) by Near Ambient Pressure X-ray Photoelectron Spectroscopy	Stefan van Vliet (ARCNL)
73	How do salts' surfaces behave in the presence of water vapor?	Nicolas Fauré (University of Gothenburg)
76	Induced reduction by H <sub>2</sub> exposure at room temperature of ceria ultrathin films grown by atomic layer deposition	Carlos Morales (Brandenburg University of Technology)
87	Reversible cuprous oxide hydroxylation in humidity studied by in-situ L <sub>3</sub> -edge X-ray absorption spectroscopy	Bo-Hong Liu (National Synchrotron Radiation Research Center)
88	APXPS Study of Photocatalytic Driven Atomic Structure Transformation of Core-Shell Ni@NiCO <sub>3</sub> /NiO Photocatalyst	Manoj Kumar Ghosalya (University of Oulu)
94	Surface properties of PdAu and PdAgAu alloys under dynamic conditions: NAP-XPS study	Carlos Ostos (UdeA)
98	Catalytic oxidation of CO by step and kink sites of curved Au crystal	Anna Makarova (Free University of Berlin)
103	Investigation on chemical composition of violin varnishes with Ambient Pressure-XPS	Hyunsuk Shin (GIST)

### Electrochemistry/electrocatalysis

16	Investigating the Oxygen Evolution Reaction Mechanism of Zinc (Un) substitution Iron Cobaltite Spinel under Alkaline Electrolyte via Ambient Pressure X-ray Photoelectron Spectroscopy	Chia-Hsin Wang (National Synchrotron Radiation Research Center)
58	Surface compositional dynamics in PtNi bimetallic alloy under reaction conditions: Electrochemical and NAP-XPS Study	Ivan Khalakhan (Charles University)
60	APXPS study on Pt <sub>3</sub> Pd <sub>3</sub> Sn <sub>2</sub> /C catalyst for dimethyl ether oxidation	Michal Procházka (University of West Bohemia in Pilsen)
72	In situ NAP-XPS and -SXAS study on the gas adsorption on Fe-N-C catalyst for oxygen reduction	Beomgyun Jeong (Korea Basic Science Institute)
101	Revealing Solid Electrolyte Interphase Formation Through Interface-Sensitive Operando X-ray Absorption Spectroscopy	Virginia Pérez-Dieste (ALBA synchrotron)

### Materials science

36	Novel photocatalytic set-up for ambient pressure X-ray photoelectron spectroscopy	Alexander Klyushin (MAX IV laboratory)
46	Study of Pt/SrTiO <sub>3</sub> under humid environment with Ambient Pressure-XPS	Dongwoo Kim (Gwangju Institute of Science and Technology)