## Poster session Wednesday, December 7, 2022

Catalysis

24	Unraveling the effect of Rh steps on the NO reduction by CO	Fernando Garcia Martinez (Deutsches Elektronen-
		Synchrotron DESY)
32	Evolution of active species in ethylene epoxidation over silver foil revealed	Man Guo (ETH Zurich)
	by ambient pressure X-ray photoelectron spectroscopy	
54	The study of steam reforming of dimethyl ether (DME) on Pt(111)	Moonjung Jung (Gwangju Institute of Science and
		Technology)
57	NAP-XPS study of Mo/HZSM-5 under methane dehydroaromatization	Stephan Bartling (Leibniz-Institut für Katalyse)
	conditions	
67	The electronic structure of PdAu alloys during selective alkyne	Patrick Zeller (Fritz-Haber-Institute of the Max-Planck
	hydrogenation	Society)
75	In situ analysis of propane oxidation on Ru/CeO <sub>2</sub> catalyst by NAP-XPS	Thu Ngan Dinhová (Charles University)
79	Size-selected alumina-supported Pd nanoparticles under methane-	Georg Held (Dlamond Light Source)
	oxidation conditions studied by NAP-XPS	
95	APXPS investigation on Co-Mn oxides under in operando conditions	Carlos Ostos (UdeA)
96	Surface chemistry of Co3O4 and CoMn2O <sub>4</sub> sputtered high-textured thin	Carlos Ostos (UdeA)
	films in the CO catalytic oxidation: An operando NAP-XPS study	
97	Monitoring active sites for CO <sub>2</sub> methanation on Ni/CeO <sub>2</sub> catalysts by NAP-	Virginia Pérez-Dieste (ALBA synchrotron)
	XPS	

**Environmental chemistry** 

2	O Understanding the "Water-on" surface catalysis in the context of	Xiangrui Kong (University of Gothenburg)
	atmospheric chemistry	
4	3 Water ordering and freezing behavior on Feldspar affected by exposure to	Markus Ammann (Paul Scherrer Institut)
	liquid water	
4	4 Adsorption of hexylamine on ice	Markus Ammann (Paul Scherrer Institut)
5	1 Acid-base chemistry of ammonia at the ice-vapor interface	Clemens Richter (Fritz-Haber-Institute of the Max-
		Planck Society)
8	4 Atmospheric iodine oxide surface propensity determined by combined	Antoine Roger Roose (Paul Scherrer Institut)
	theoretical calculations and liquid jet XPS	
8	6 The reaction of HCl with calcite particles in the context of stratospheric	Sandro Vattioni (ETH Zurich)
	aerosol injection	
10	7 Surfactant-ion interactions at seawater-vapor interfaces	Shirin Gholami (Fritz-Haber-Institute of the Max-
		Planck Society)

**Technical developments** 

30	A lab source electrochemical NAP-XPS setup	Hassan Javed Nagra (Leiden University)
31	Catalysis on glowing catalysts: Breaking the 1000°C limit in APXPS	Claudiu Colbea (ETH Zurich)
40	Environmental science at ISS/SLS: Endstation development and	Thorsten Bartels-Rausch (Paul Scherrer Institut)
	characteristics	
41	O K-edge NEXAFS in presence of high water vapor pressures	Thorsten Bartels-Rausch (Paul Scherrer Institut)
45	Opening complex data: How FAIR data handling helps during a beamtime	Thorsten Bartels-Rausch (Paul Scherrer Institut)
56	Tailored mass spectrometry solutions for the gas analysis in APXPS setups	Ina Schmidt-Hanke (InProcess Instruments GmbH)
99	Commissioning of photo-ALD capability at Max IV SPECIES APXPS end	Rosemary Jones (Lund University)
	station for time-resolved APXPS studies	
100	A flow-focused droplet train for investigating liquid phase processes with	David Starr (Helmholtz-Zentrum Berlin)
	ambient pressure XPS	