

THURSDAY 30

Location: Benedetto XIII

8.30/10.30 Plenary session M4

8.30 Iwasawa Yasuhiro

Real time XAFS for structural kinetics/dynamics of 2D and nanoparticle catalyses

9.15 van Bokhoven Jeroen

Studying functioning catalysts with X-rays

10.00 Grunwaldt Jan-Dierk

Shining X-rays on catalysts at work

11.00/13.00 Special session S4

Catalysis and Energy Sciences: From EXAFS to QEXAFS and Beyond

11.00 Frahm Ronald

QEXAFS: Technique, science, future

11.25 Asakura Kiyotaka

Combined in situ analysis of

Ni₂P/MCM-41 under

hydrodesulfurization conditions: simultaneous

observation of QXAFS and FTIR

11.50 Lillerud Karl Petter

Combined EXAFS and XRPD in understanding

the structure and the reactivity of metal

organic frameworks (MOFs) upon solvent

removal and molecule coordination

12.15 Segre Carlo

Removal of oxygen adsorbates on Pt/C and

PtNi(1:1)/C alloy nanoparticle catalysts for the

oxygen reduction reaction in PEMFCs

12.40 Witkowska Agnieszka

Nano-structured Pt-based catalysts for fuel cell

applications probed by in situ XAFS

11.30/13.30 Poster Session (continuation) PS2

15.30/17.30 Location: Ducal Palace

■ P5.1 Catalysis I Sala La Muta

15.30 Bauer Matthias

Iron-catalysis through the XAS-eye: structures, mechanisms and beyond

15.50 Stötzel Jan

Reduction and re-oxidation of Cu/Al₂O₃

catalysts investigated with quick scanning

XANES and EXAFS

16.10 Mettu Anilkumar

In situ X-ray absorption study of

CuO-CeO₂/Al₂O₃ catalysts in the total oxidation

of propane

16.30 La Fontaine Camille

When SOLEIL sheds light on catalysis: methods and results

16.45 Ronning Magnus

Complimentary in situ characterisation techniques at realistic working conditions for the Fischer-Tropsch synthesis

17.00 Lamberti Carlo

Local structure of CPO-27-Ni metallorganic framework upon dehydration and coordination of ligand molecules (NO, CO and N₂):

comparison between experiments and ab initio periodic calculations

17.15 Nchari Luanga

Towards a deeper mechanistic understanding

of the Soai reaction: XAS studies of

diisopropylzinc as a function of solution

environment

■ P5.2 Magnetic dichroism (XMCD) Allara e Gr.

15.30 Antoniak Carolin

Correlation of magnetic moments and local structure of FePt nanoparticles

15.50 Frank De Groot

The accuracy of the XMCD effective spin sum rule

16.10 Sipr Ondrej

Influence of the magnetic dipole T_z term on the XMCD spectra of clusters

16.30 Matsuda Yasuhiro

XMCD spectroscopy on valence fluctuating and

heavy fermion compounds in very high magnetic fields up to 40 T

16.50 Yokoyama Toshihiko

Self-assembled Co nanorods grown on Cu(110)-(2x3)N studied by XMCD

17.10 Kawamura Naomi

X-ray magnetic circular dichroism at Os L-edge under multiple extreme conditions in

SmO₂Sb₁₂

■ P5.3 Environmental studies Aula A. Ruiz

15.30 Ravel Bruce

EXAFS studies of catalytic DNA sensors for mercury contamination of water

15.50 Flank Anne-Marie

Experimental evidence of six-fold oxygen

coordination for phosphorus

16.10 Cibin Giannantonio

A combined XANES and SR-XRF study of the airborne dust preserved in Antarctic deep ice cores across a climate transition

16.30 Noren Katarina

Speciation of zinc in ash from combustion of

biomass and municipal solid waste

16.50 Giuli Gabriele

Tektites and microtektites Fe oxidation state

17.10 Testemale Denis

The use of x-ray absorption spectroscopy in

hydrothermal geochemistry: transport and

speciation of dissolved metals

■ P5.4 Gas phase systems Aula Betti

15.30 Lau Tobias

X-ray spectroscopy in a linear ion trap:

size-selected transition metal, doped silicon,

and protonated water clusters

15.50 Mazza Tommaso

Structure and hydrogen uptake of free titanium

clusters in a supersonic beam probed by

combined XAS and multicoincidence technique

16.10 Kivimäki Antti

UV-visible emission as a probe of core

excitations applied to small molecules

16.30 Piseri Paolo

NEXAFS characterization of sp-rich carbon

clusters in the gas phase

16.50 Zhong Jun

Interaction mechanism of gas-SWNTs probed

by XANES

17.10 Kodre Alojz

Atomic absorption background: K edge of

iodine and L edges of cesium

18.00/20.00 Location: Ducal Palace

■ P6.1 Catalysis II Sala La Muta

18.00 Kimura Masao

In situ observation of redox reactions of

Pd/Sr-Fe-O for exhaust emission catalyst

18.20 Tromp Moniek

Development of X-ray emission spectroscopy in

single site catalysis

18.40 Tew Min Wei

Distinguishing interstitial and surface hydrogen

in and on nano-sized palladium catalysts using

Pd K and L₃ edges X-ray absorption

spectroscopy

19.00 Piovano Andrea

In situ electrochemical oxygen intercalation

inside SrFeO_{2.5} investigated by time

resolved EXAFS and XANES: a comparison with

the SrCoO_{2.5} system

19.15 Alayon Evalyn Mae

In situ XAS probes partially oxidized platinum

generating high activity for CO oxidation

19.30 Matsumura Daiju

Dynamic structural change of Pd/LaFeO₃

nanoparticles under redox atmosphere and

CO-NO catalytic reaction studied by dispersive

XAFS

19.45 Agostini Giovanni

Combining EXAFS, TEM, and chemisorption in

determining the particle size and dispersion of

fcc-metal nanoparticles deposited on high surface area supports: a general model

■ P6.2 Biology II Allara e Grosso

18.00 Lay Peter

Biomedical applications of X-ray absorption and vibrational spectroscopic microscopies in bioinorganic chemistry

18.20 Bunker Bruce

XAFS study of gold adsorption to Bacillus

subtilis and Pseudomonas putida bacterial

cells

18.40 Sarangi Ritimukta

Geometric and electronic structures of Ni(II) and

methyl-Ni(III) intermediates of methyl-CoM

reductase

19.00 Soldatov Mikhail

Local atomic and electronic structure of novel

experimental anticancer drugs

19.15 Ko Jun Young

Synchrotron X-ray microscopy and

spectroscopy analysis of iron in

hemochromatosis liver and intestines

19.30 Quinn Paul

X-ray absorption studies of tissue surrounding

cobalt-chromium-molybdenum orthopedic

implants

19.45 Barrea Raul

X-ray imaging and Zn K edge microXANES

shows Cloiquinol and Disulfiram activity in

prostate cancer in vivo

■ P6.3 Data analysis II Aula Aranjó Ruiz

18.00 Purans Juris

EXAFS measurements with femtometer

accuracy: isotopic effect in the first, second, and

third coordination shells of germanium

18.20 Fornasini Paolo

Negative thermal expansion and local

dynamics

18.40 Chantler Christopher

Accurate measurement and physical insight:

latest results of the x-ray extended range

technique for high accuracy absolute XAFS

19.00 Babanov Yuri

Variable angle XAFS study of multilayer

nanoheterostructures: Determination of

selective concentration profile and

depth-dependent partial atomic distributions

19.15 Yamamoto Takashi

Unified concept on the chemical variation of

pre-edge structure

19.30 Smolentsev Grigory

Structure of reaction intermediates refined by

quantitative analysis of time-resolved XANES

spectra

19.45 Rodolakis Fanny

Mott transition in V:O₂: a high resolution X-ray

absorption spectroscopy study

■ P6.4 Actinides and nuclear waste Aula Betti

18.00 Hennig Christoph

Double-electron excitation in absorption

spectra of actinides

18.20 Reich Tobias

EXAFS study of Np(V) sorption onto gibbsite

(γ-Al(OH)₃)

18.40 Denecke Melissa

Spatially resolved XRF, XAFS, XRD, STXM and IR

investigation of U-rich natural analogue clay

19.00 Rothe Jörg

A combined XAFS, LIBD and ESI TOF-MS study

on the formation of polynuclear An(IV)

complexes and colloids

19.20 Badaut Vivien

Selenite retention by siderite: In situ and

ex situ XAFS experiments

19.40 Brendebach Boris

Sulfur incorporation in high level nuclear waste

glasses: a S K-edge XAFS investigation

20.30/22.30 Social Dinner