

UVSOR Symposium 2020

Date: October 26 - 27, 2020
Place: Zoom & Remo Conference

October 26th (Mon.)

October 20 (1/10)	<u>,</u>		
9:00 – 9:05	Opening Remark S. Ideta (UVSOR)		
<session (uvsor)="" 1,="" chair:="" h.="" iwayama=""></session>			
9:05 – 9:25	Present status and prospects of UVSOR Synchrotron Facility		
	S. Kera (UVSOR)		
9:25 – 9:45	Operando XAS observation of all elements for the active structure induced by carbonate anion		
	for water splitting		
	M. Yoshida (Yamaguchi Univ.)		
9:45 - 10:05	Development of novel scintillation materials with high light-outputs using UVSOR beams		
	S. Kurosawa (Tohoku Univ.)		
10:05 - 10:25	Coffee Break		
<session 2,="" chair:<="" td=""><td>K. Tanaka (UVSOR)></td></session>	K. Tanaka (UVSOR)>		
10:25 - 11:10	[Invited talk]		
	Quasi-1D surface electronic states fabricated on III-V semiconductor surfaces		
	Y. Otubo (Osaka Univ.)		
11:10 - 11:30	Coupling between Electron and Charge Density Wave Excitation Mode		
	Y. K. Kim (KAIST)		
14:00 - 17:00	Poster flush for Poster Session (On-demand broadcasting via WEB)*		
	*Your Poster flush for Poster Session is recorded by using Zoom. Please see the following		
	instruction ("How to Record Your Short Presentation by using Zoom").		
17:00 - 19:00	Poster Presentation		
19:00 –	Free Discussion		

October 27th (Tue.)

October 27 (1u	<u>e.)</u>			
<session (uvsor)="" 3,="" chair:="" ideta="" s.=""></session>				
9:00 - 9:45	[Invited talk]			
	Exploring the band structure of black phosphorus with microARPES and nanoARPES			
	K. S. Kim (Yonsei Univ.)			
9:45 - 10:05	Photoelectron momentum microscope 1.0: adding UVSOR specialties to the basic			
	specification			
	F. Matsui (UVSOR)			
10:05 – 10:25 Photoemission spectroscopy of oriented molecular thin film using photoelectron				
	microscope			
	Y. Hasegawa (IMS)			
10:25 - 10:45	Coffee Break			

<Session 4, Chir: T. Ohigashi (IMS)>

P14	Investigation of the adsorbing anion on the Ni water splitting electrocatalyst by operando
	XAFS observation
	E. Ihara (Yamaguchi Univ.)
P15	Resonant Soft X-ray Scattering method
	H. Iwayama (IMS)
P16	Glycine betaine-salt complex formation revealed by the liquid-phase inner-shell absorption
	spectroscopy
	S. Ohsawa (Hiroshima Univ.)
P17	Xe 4s Auger Decay Studied by Multielectron-Ion Coincidence Spectroscopy
	Y. Hikosaka (Toyama Univ.)
P18	Impurity emission of aluminum nitride by visible-soft X-ray excitation
	T. Banno (Fukui Univ.)
P19	Investigation of Photon Energy Drift at BL5B (2)
	H. Zen (Kyoto Univ.)
P20	Evaluation of Polarization Characteristic of Synchrotron Radiation by Observing Zeeman
	Quantum Beat
	Y. Hikosaka (Toyama Univ.)
P21	Angle-Resolved Photoemission Study of Antiferromagnetic i-MAX phase compound
	$(Mo_{2/3}Ho_{1/3})_2AIC$
	K.Furuta (Nagoya Univ.)
P22	Angle-resolved Photoemission Study of Graphene on Hex-Au(100) superlattice
	K. Matsunaga (Nagoya Univ.)
P23	The temperature dependence of carrier density and relaxation time for n-type Mg ₂ Si single
	crystals investigating by IR spectroscopy
	T. Tanimoto (Yamagata Univ.)
P24	Measurement of the electronic state of η -Mo ₄ O ₁₁ using a momentum microscope
	T. Kobayashi (Osaka Univ.)
P25	Photon-Energy dependence of the photoelectron angular distribution from MoS ₂
	S. Tanaka (Osaka Univ.)
P26	Research of deriving complex reflective index by analysis optical interference
	M. Horiba (Fukui Univ.)
P27	Transition from a monolayer to a bilayer in graphene/SiC(0001) by Li-intercalation and
	occupation of a flat band
	M. Hashizume (Tokyo Inst. Tech.)
P28	Photoemission Study of Solid Electrolytes Li _x La _{(1-x)/3} NbO ₃ Bulk Single Crystal
	R. Yamamoto (Nagoya Univ.)
P29	Band control by Pd substitution in typeII Dirac material NiTe ₂
	K. Yoshino (Osaka Univ.)
P30	The topological electric structure of interface between α -Sn and InSb
	T. Nakaya (Osaka Univ.)

ď

Next Generation Spectro-Microscopy and Micro-Spectroscopy Workshop

Date: October 28 - 29, 2020 Place: ZOOM (online)

October 28th (Wed.)

14:00 – 14:15 Opening Remark

Chair: T. Ohigashi (UVSOR)

14:15 – 14:50 Soft-X-ray Photoelectron Momentum Microscopy for Selective Atomic/molecular Orbital

Excitation

F. Matsui (UVSOR)

14:50 – 15:25 Operando Electrochemical Scanning X-ray Transmission Microscopy for Lithium-ion

Batteries

J. Lim (Seoul National Univ.)

15:25 – 16:00 In Situ Observation of Meta-stable Magnetization State in Fe/W(110) Nanostructures

W-X. Tang (Chongqing Univ.)

16:00 – 16:15 Coffee break

Chair: F. Matsui (UVSOR)

16:15 – 16:50 Current Status of the Scanning Transmission X-ray Microscopy Beamline in UVSOR

T. Ohigashi (UVSOR)

16:50 – 17:25 Nano-ARPES Study of Novel Topological Materials

T. Sato (Tohoku Univ.)

17:25 – 18:00 Development of a Laboratory-based In Situ XPS Apparatus for Liquid Samples and

Electrochemical Interfaces

T. Masuda (NIMS)

18:00 – 18:30 Discussion and Workshop photo

October 29th (Thu.)

14:00 – 14:05 Second Day Opening

Chair: S. Kera (UVSOR)

14:05 – 14:40 STXM at TPS 27A1: Capabilities and Opportunities

H-W. Shiu (NSRRC)

14:40 – 15:15 Photoelectron Related Image and Nanospectroscopy Endstation at TPS 27A2: Capabilities and

Opportunities

T-H. Chuang (NSRRC)

15:15 – 15:50 Strain and Permeability of Graphene studied by Cathode Lens Microscopy, Diffraction and

Spectroscopy

M. S. Altman (Hong Kong Sci. Tech. Univ.)

15:50 – 16:05 Coffee break

Chair: K. Tanaka (UVSOR)

16:05 – 16:40 Visualization of Excitons in 2D Semiconductor by Time-resolved ARPES

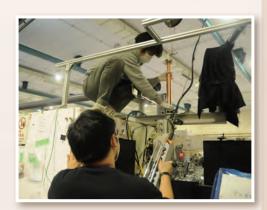
M. Man (OIST)

16:40 - 17:15	Stability and Inner Structure of Nanobubbles investigated by STXM
	L. Zhang (Shanghai Synchrotron Radiation Facility)
17:15 – 17:50	Nano-scale Chemical State Visualization using Ptychography-XAFS
	N. Ishiguro (Tohoku Univ.)
17:50 - 18:30	Discussion and Closing

UVSOR Staff Works





















Editorial Board: H. Matsuda M. Fujimoto M. Sakai M. Ishihara

Institute for Molecular Science National Institutes of Natural Sciences Okazaki 444-8585, Japan

Tel:+81-564-55-7402

Fax:+81-564-54-7079

http://www.uvsor.ims.ac.jp



ISSN 0911-5730