

Oral Session; Dec. 18 (Sat) 2010

Time	Presiding Officer	Presentation	
7:30 AM-7:35 AM		Introductory remarks <u>Y. Muramatsu</u>	
7:35 AM-7:50 AM	J. Kawai	653. Application of soft X-ray PEEM to the observations of electronic structure, valence state and molecular orientation at nanoscale <u>Y. Baba</u> ; T. Sekiguchi; I. Shimoyama; N. Hirao; A. Narita	
7:50 AM-8:05 AM		654. Velocity map imaging for the characterization and diagnostics of molecular beams H. Katayanagi; <u>K. Mitsuke</u>	
8:05 AM-8:25 AM		655. Ultimate-resolution soft X-ray microspectroscopy <u>R. H. Fink</u> ; J. Raabe; C. Hub; I. Schmid	
8:25 AM-8:45 AM		656. Automated assay of internally mixed individual particles using X-ray spectromicroscopy maps <u>R. Moffet</u> ; T. Henn; A. Laskin; M. Gilles	
8:45 AM-9:25 AM	Y. Muramatsu	657. Recent soft X-ray developments at the Australian Synchrotron <u>R. Lamb</u> ; B. Cowie; A. Buckley; W. Skinner; F. Larkins	
9:25 AM-10:05 AM		658. 3-D photoelectron microscopy and soft X-ray emission spectroscopy for nanodevices at spring-8 University of Tokyo beamline <u>M. Oshima</u>	
10:05 AM-10:20 AM	A. W. Buuren	659. Ultrahigh resolution soft X-ray emission spectrometer at BL07LSU of SPring-8 <u>Y. Harada</u> ; M. Kobayashi; M. Oshima; Y. Senba; H. Ohashi; T. Tokushima; Y. Horikawa; S. Shin	
10:20 AM-10:35 AM		660. Highly efficient soft X-ray emission spectrometer using a transmission grating <u>H. Yamane</u> ; T. Hatsui; N. Kosugi	
10:35 AM-10:50 AM		661. Angular anisotropy of X-ray emission from acetic acid molecules in solution <u>Y. Horikawa</u> ; H. Arai; T. Tokushima; A. Hiraya; S. Shin	
10:50 AM-11:10 AM		662. Silicon drift detector applications in soft X-ray absorption spectroscopy <u>T. Regier</u> ; R. Blyth; D. Chevrier; D. Beauregard; A. Achkar; H. Wadati; D. Hawthorn	
11:10 AM-11:25 AM		663. Palmtop EPMA <u>J. Kawai</u> ; E. Hiro	
12:30 PM-12:50 PM		L. J. Terminello	698. Soft X-ray spectroscopy of materials for photoelectrochemical devices <u>C. Heske</u> ; M. Bär; L. Weinhardt
12:50 PM-1:05 PM			699. Electronic states of carbon in iron phthalocyanine-based oxygen reduction catalysts by soft X-ray absorption spectroscopy <u>H. Niwa</u> ; M. Saito; M. Kobayashi; Y. Harada; M. Oshima; S. Moriya; K. Matsubayashi; Y. Nabae; S. Kuroki; T. Ikeda; K. Terakura; J. Ozaki; S. Miyata
1:05 PM-1:25 PM	700. Quantitative covalency measurements in tetrahedral MO_4^- anions (M = Mn, Tc, Re) using oxygen K-edge XAS and NRIXS spectroscopy <u>S. G. Minasian</u> ; E. R. Batista; K. S. Boland; J. A. Bradley; D. L. Clark; S. D. Conradson; S. A. Kozimor; W. W. Lukens; R. L. Martin; G. T. Seidler; D. K. Shuh; T. Tylliszczak; P. Yang		

1:25 PM-1:45 PM	Y. Harada	701. Soft X-ray absorption spectroscopy and theory to elucidate the role of 5f electrons in actinide materials R. Copping; B. Jeon; S. Teat; T. Tyliczszak; N. Gronbech-Jensen; A. Canning; G. Szigethy; K. N. Raymond; D. Shuh
1:45 PM-2:00 PM (2:00PM-2:25PM)		815. Behavior of chlorine in fly ash during dioxin formation M. Takaoka; T. Fujimori; K. Oshita (Break)
2:25 PM-3:05 PM	A. Moewes	703. Application of resonant inelastic X-ray scattering to molecules and solids D. Lindle
3:05 PM-3:25 PM		704. Surface and size manipulation of the magnetic properties of CdSe quantum dots R. Meulenber; J. Lee; S. McCall; K. Hanif; D. Haskel; J. Lang; L. Terminello; T. van Buuren
3:25 PM-3:45 PM		705. In situ X-ray spectroscopy for investigation of advanced materials for electrical energy storage J. R. Lee; T. M. Willey; M. H. Nielsen; J. Guo; J. Dahn; T. van Buuren
3:45 PM-4:05 PM	C. Heske	706. Understanding bandgap and electronic structure of crystalline materials A. Moewes; T. Boyko
4:05 PM-4:20 PM		707. Bandgap profile across a silicon oxynitride ultrathin film epitaxially grown on 6H-SiC(0001), studied by XES and XAS H. Tochiwara; S. Mizuno; T. Shirasawa
4:20 PM-4:35 PM		708. Characterization of graphite-like layered material BC2N by X-ray absorption and emission spectroscopy M. Kawaguchi; H. Yamamoto; Y. Muramatsu

(Group Photo)

7:00 PM-7:40 PM	R. C. C. Perera	811. Recent new soft X-ray spectrometers developed for the analysis of biochemical samples H. Wakita; T. Kurisaki; S. Matsuo; R. C. Perera; J. H. Underwood
7:40 PM-7:55 PM		812. Characterization of minerals and archeological samples by soft X-ray spectroscopy T. Kurisaki; D. Tanaka; S. Kokubu; H. Wakita
7:55 PM-8:15 PM	T. Kurisaki	813. Complementary spectro-microscopic techniques: Chemical composition and properties of atmospheric aerosols M. Gilles; R. Moffet; A. Laskin
8:15 PM-8:35 PM		814. Metals in the environment: Understanding environmental issues through quantitative analysis of X-ray absorption spectroscopy J. Cutler; J. Warner; L. Van Loon

Poster Session; Dec. 19 (Sun) 2010

10:00 AM-12:00 PM	Y. Muramatsu	893. X-ray absorption spectroscopic characterization of phosphorus-doped TiO₂ with visible-light photocatalytic activity M. Iwase; K. Yamada; T. Kurisaki; H. Wakita
10:00 AM-12:00 PM		894. Adsorption behavior of tellurium oxoanion on d-MnO₂ Y. Katsuyama; C. Numako; Y. Okaue; T. Yokoyama
10:00 AM-12:00 PM		895. Quantitative analysis method of nitrogen in graphitic carbon materials using total-electron-yield soft X-ray absorption spectroscopy T. Amano; Y. Muramatsu; E. M. Gullikson
10:00 AM-12:00 PM		896. Local-structure analysis of the oxidized graphitic carbon dispersoids using soft X-ray absorption spectroscopy N. Inoue; Y. Muramatsu; Y. Aoyama; M. Kawaraya; H. Hisashi; E. M. Gullikson
10:00 AM-12:00 PM		897. Total-electron-yield soft X-ray absorption spectroscopy for the quantitative analysis of carbon materials Y. Muramatsu; E. M. Gullikson
10:00 AM-12:00 PM		898. X-ray fluorescence imaging of growing chemical patterns K. Sakurai; M. Mizusawa
10:00 AM-12:00 PM		899. Measurement of unpaired electron species in dry DNA thin films irradiated with synchrotron soft X-rays around oxygen and nitrogen K-edge studied by EPR T. Oka; A. Yokoya; K. Fujii; Y. Fukuda; M. Ukai