PUBLICATIONS

2018

Elemental analysis of cultured pearls by PIXE
I. Sakakura, H. Tsuchida, Y. Sasaki, H. Hayashi

Upgrades of a time-of-flight elastic recoil detection analysis measurement system for thin film analysis

The impact of solar radiation on polar mesospheric ice particle formation
Atmos. Chem. Phys., accepted.

Radiative lifetime measurements of metastable levels in Kr3+ using electrostatic ion beam trap
M. Saito, H. Kubota, T. Majima, M. Imai, H. Tsuchida, Y. Haruyama
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Secondary electron-induced biomolecular fragmentation in fast heavy-ion irradiation of microdroplets of glycine solution
K. Kitajima, H. Tsuchida, T. Majima, and M. Saito

Two- and three-photon double ionization of helium by soft X-ray free-electron laser pulses

A cryogenic linear ion trap beamline for providing keV ion bunches
S. Menk, P. Bertier, Y. Enomoto, T. Masunaga, T. Majima, Y. Nakano, and T. Azuma

Time-resolved photoelectron angular distributions from nonadiabatically aligned CO2 molecules with SX-FEL at SACLA

Photoelectron spectroscopy of Rydberg excited states in singly charged molecular ions Cs2+ by NIR laser pulses

Effects of electronic stopping power on fast-ion-induced secondary ion emission from methanol microdroplets
K. Kitajima, H. Tsuchida, T. Majima, and M. Saito

High resolution Li depth profiling of solid state Li ion battery by TERD technique with high energy light ions

Mass spectrometric study of the negative and positive secondary ions emitted from ethanol microdroplets by MeV-energy heavy ion impact

Ar 3p photoelectron sideband spectra in two-color XUV + NIR laser fields

Radiative lifetime measurements of 2P3/2 and 2P1/2 metastable levels in triply charged xenon using electrostatic ion beam trap
M. Saito, A. Chikaoka, T. Majima, M. Imai, H. Tsuchida, and Y. Haruyama

Molecular axis alignment of fast OH+ ions passing through nanocapillaries
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S. Konishi

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Li Depth Profiles of Metal/Li-Electrolyte/Metal Capacitors under Biasing Studied by Means of MeV Ion Beam Analysis
K. Morita, B. Tsuchiya, Y. Iriyama, T. Kato, H. Tsuchida, T. Majima
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In situ cationization of molecular ions sputtered from organic specimens under cluster bombardment
H. Gnaser, W. Bock, J. Matsuo

Liquid Adsorption and Desorption measured with Ambient -SIMS
J. Matsuo, T. Seki, T. Aoki
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Improvement in Detection Sensitivity of Secondary Ions by Na Absorption with Mist Deposition Method on a PEG Surface
T. Matsuda, T. Seki, T. Aoki, J. Matsuo
The 28th Annual Meeting of MRS-J (Kitakyushu Int. Conf. Center, Fukuoka, Japan 2018/12/19) Oral.

Ambient Secondary Ion Mass Analysis of Fatty Acids with MeV-energy Heavy Ion
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The 19th Workshop on Surface and Interface Analysis by Ion Beam (Kyoto Univ., Kyoto, Japan 2018/12/7) Oral.

Fabrication of multilayer lever structure by double-angled etching with reactive gas cluster injection

Cluster Ion Beams: History and Technology
Yamada, J. Matsuo
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T. Seki

Low-energy Electron and Particle Microscopies in Liquid, Gaseous, and Frozen Conditions
D. Muller, K. Molhave, S. Chikara, J. Matsuo, M. Willinger, A. Belianinov, H. Plank

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S. Yamada, T. Seki, T. Aoki, J. Matsuo
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Solubilities and solubility products of thorium hydroxide under moderate temperature conditions
S. Nishikawa, T. Kobayashi, T. Sasaki, I. Takagi

Gamma-ray irradiation impact of humic substances on apparent formation constants with Cu(II)

Study on the leaching behavior of actinides from nuclear fuel debris
A. Kirishima, M. Hirano, D. Akiyama, T. Sasaki, N. Sato

High-resolution depth profiling of soda-lime silicate glass using high-resolution RBS and ERDA
H. Sakata, Y. Yamamoto, K. Sato, K. Nakajima, and K. Kimura

Quantification of outermost OH group on silica glass surface by high-resolution elastic recoil detection analysis
Y. Yamamoto, K. Sato, K. Nakajima, and K. Kimura

Imaging of organic materials by transmission SIMS using MeV primary ions
K. Nakajima, K. Yamamoto, S. Kitamura, and K. Kimura

Molecular imaging by transmission SIMS in combination with secondary electron microscope
28th Int. Conf. on Atomic Collisions in Solids (ICACS-28) (Caen, France, Jul. 1-6, 2018) invited.

Observation of dc field evaporated ion species from transition metal nitride deposited on tungsten tip
Analysis of field evaporated ions from transition metal nitrides
C. Nishimura, Y. Haneji, H. Tsuji, and Y. Gotoh
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Operation of field emitter arrays under high dose rate gamma-ray irradiation
T. Morito, Y. Handa, Y. Gotoh, M. Nagao, M. Akiyoshi, I. Takagi, and T. Okamoto

Surface-Enhanced Infrared Absorption for the Periodic Array of Indium Tin Oxide and Gold Microdiscs: Effect of in-Plane Light Diffraction
R. Kamakura, T. Takeishi, S. Murai, K. Fujita, and K. Tanaka

Enhanced Photoluminescence from Organic Dyes Coupled to Periodic Array of Zirconium Nitride Nanoparticles
R. Kamakura, S. Murai, K. Fujita, and K. Tanaka

Demonstration of Temperature-Plateau Superheated Liquid by Photothermal Conversion of Plasmonic Titanium Nitride Nanostructures

Enhanced Photoluminescence and Directional White-Light Generation by Plasmonic Array

Enhancement of Dopant Emission of Quantum Emitters near Metallic Thin films
S. Murai, K. Tanaka, S. I. Azzam, S. Ishii, A. V. Kildishev, and M. Saito

Surface Lattice Resonances Excited in Al Nanocylinder Arrays in the UV, Visible and Near-Infrared Spectral Regions
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