

## Kanto Chapter 10th Anniversary Symposium Poster Program

Poster Core Time: 15:00~15:45 (odd numbers), 15:45~16:30 (even numbers)

/ コアタイム: 15:00~15:45 (奇数番号), 15:45~16:30 (偶数番号)

- P-01 “Step conductivity of Pb monolayers formed on Si(111) studied by low temperature scanning tunnelling microscopy/potentiometry”  
Junya Okazaki (Univ. of Tokyo)
- P-02 “STM and DFT Investigation of Sequential Dehydrogenation of a Single Acetylene Molecule on the Cu(111) Surface”  
Shoma Tateda (Univ. of Tokyo)
- P-03 “Chiral honeycomb lattices of non-planar  $\pi$ -conjugated supramolecules on Ag(111) surfaces”  
Ryohei Nemoto (NIMS)
- P-04 “High-performance widegap CIGS solar cells with ZTO buffer layer”  
Takeshi Nishida (AIST)
- P-05 “Observation of multi-carrier Hall effect by Mn doping into a topological crystalline insulator thin film SnTe”  
Yoshihiro Fukushima (Science Tokyo)
- P-06 “Activation mechanism of surface partially nitrated high-purity titanium deposited film as a nonevaporable getter (NEG) studied by soft X-ray photoelectron spectroscopy (XPS) and angle-resolved hard X-ray photoelectron spectroscopy (HAXPES)”  
Kazuhiko Mase (KEK PF)
- P-07 “Non-reciprocal Photocurrent on Strong Spin-Orbit Coupling Surfaces”  
Shuji Hasegawa (Univ. of Tokyo)
- P-08 “Interface sensitive observation of Fe and Ni *K*-edges for SAE304 steel under water by TREXS”  
Hitoshi Abe (KEK-IMSS)
- P-09 “Silica under pressure: structure analysis with locally averaged atomic fingerprints and unsupervised learning”  
Anh Khoa Augustin Lu (Univ. of Tokyo)
- P-10 “A simple and convenient pathway to the quasicrystal graphene”  
Ryota Akiyama (Univ. of Tokyo)
- P-11 “Residual gas analysis in oxygen-free Pd/Ti deposited UHV chamber”  
Takashi Kikuchi (KEK PF)

- P-12 “*In situ* observation of CO<sub>2</sub> reduction over Au/p-GaN photoelectric catalyst”  
Ryo Toyoshima (Univ. of Tokyo)
- P-13 “宇宙機搭載を想定した無酸素 Pd/Ti 蒸着非蒸発型ゲッター (NEG) ポンプの高温活性化と排気特性評価”  
狩野 悠 (入江工研)
- P-14 “Topochemical fluorination of perovskite SrCeO<sub>3</sub> epitaxial thin films”  
Ayuka Nakano (Ochanomizu Univ.)
- P-15 “Fluoride-ion conductivity of strontium cerium fluoride epitaxial thin films”  
Miku Hagiwara (Ochanomizu Univ.)
- P-16 “Structural changes in bismuth iron oxide epitaxial thin films *via* topochemical fluorination”  
Akiko Kamigaito (Ochanomizu Univ.)
- P-17 “Topochemical fluorination of yttrium-barium ferrite epitaxial thin films”  
Reina Tsuiji (Ochanomizu Univ.)
- P-18 “Control of Film Structure by Dual Bipolar High-Power Pulsed Magnetron Sputtering at low gas pressures”  
Kai Watanabe (Seikei Univ.)
- P-19 “Atomic Force Microscopy and Raman Spectroscopy of Carbon Black”  
Ryoto Yasukawa (Keio Univ.)
- P-20 “Analysis of Moiré Superlattice of MoS<sub>2</sub> Monolayer on Au(111) via Scanning Tunneling Microscopy”  
Shotaro Mori (Keio Univ.)
- P-21 “Study of electronic states of atomic-layer materials composed of Sb and Pb”  
Honoka Otsuka (Waseda Univ.)
- P-22 “Study of spin transport properties at the Rashba interface on bismuth”  
Shunji Ito (Waseda Univ.)
- P-23 “Fabrication and structure evaluation of (Bi, Pb) atomic-layer compound on Ge(111) substrate”  
Rintaro Takahashi (Waseda Univ.)

- P-24 “Electronic states of Bi ultrathin film on Sb studied by ARPES”  
Suzuna Inoue (Waseda Univ.)
- P-25 “Interface-induced weak ferromagnetism in altermagnetic MnTe thin films”  
Ryosuke Akiyama (Science Tokyo)
- P-26 “Automated Feature Extraction of Fermi Surface via Interpretable Machine Learning”  
Daichi Ishikawa (Tokyo Univ. of Sci.)
- P-27 “Discrimination of three types of biomolecules based on the difference in intensity recovery of near-infrared fluorescence emission from single-walled carbon nanotubes with different chiralities”  
Taiyo Hirose (Tokyo Univ. of Sci.)
- P-28 “UMAP-Driven Automated Identification of Crystal and Electronic Structures in Boron Nitride from X-ray Absorption Spectra”  
Reika Hasegawa (Tokyo Univ. of Sci.)
- P-29 “Development of an Automated Fermi Surface Analysis Model for Multi-component Co-Based Heusler Alloys”  
Soichi Takase (Tokyo Univ. of Sci.)
- P-30 “Orientational Preference and Stability in a Water Monolayer on Pt (111): Effects of Hydrogen Atom Interface Modification”  
Yuta Takahara (SOKENDAI)
- P-31 “Investigation of Black Rutile TiO<sub>2</sub>(110) by Photoemission Spectroscopy and In-Situ Electrical Conductivity Measurement”  
Muhammad Irfandi (Univ. of Tokyo)
- P-32 “Lithium Electrodeposition Process in Various Water-added Electrolyte Solutions”  
Asumi Yorita (Ochanomizu Univ.)
- P-33 “Cathode Reaction Analysis of Lithium-Air Battery Based on Operando XRD Measurements”  
Kazuno Maeda (Ochanomizu Univ.)
- P-34 “Simulation of Spin Polarized Atomic Hydrogen Beam for High Polarization and Adsorption Experiments of Ni Thin Film”  
Fuka Watanabe (Univ. of Tokyo)

P-35 “Machine Learning-Driven Compositional Optimization of High-Entropy Alloy Nanoparticle Catalysts for Hydrogen Evolution Reaction”

Koki Otsuka (Univ. of Tokyo)

P-36 “First-principles calculations on charge states of ions around  $\Sigma 5(310)/[001]$  grain boundary in cubic-ZrO<sub>2</sub>”

Shungo Arai (Univ. of Tokyo)