32nd International Workshop on Oxide Electronics (iWOE32)

Poster Session A (Sessions 1, 2, 3, 7, 8)

Date & Time: September 28, 2026 (Mon) 14:00 - 16:00 | Venue: Main Hall / Poster Area

Poster ID	Presenter & Affiliation	Abstract Title
PA-01	**Muntaser Naamneh** *(Ben-Gurion Univ. of the Negev)*	Universal Four-Fold Symmetry in Infinite-Layer Nickelates: From the Insulating Parent to the Superconducting State
PA-02	**Youngdo Kim** *(Yale Univ.)*	Polarization-Dependent EXAFS Analysis of Infinite-Layer Nickelate $Nd_{1-x}Eu_xNiO_2$
PA-03	**Hideyuki Kawasoko** *(Tokyo Metropolitan Univ.)*	Epitaxial Growth and Electronic Properties of Layered Nickelate $Sr_{2.5}Bi_{0.5}NiO_5$
PA-04	**Rahaf Yaseen** *(Max Planck Institute for Solid State Research)*	Superconductivity in As-Grown Bilayer Nickelate Thin Films
PA-05	**Antoine Devincenti** *(Northwestern Univ.)*	Evolution in Ruddlesden-Popper nickelate via soft-chemistry
PA-06	**Lee Ki Hyuk** *(Chung-Ang Univ.)*	Epitaxial Growth of La-Site-Substituted Bilayer Nickelate Thin Films and Emergent In-Plance Octahedral Rotation
PA-07	**Haobo Li** *(The Univ. of Osaka)*	Synthesis and investigation of Eu_2NiO_4 in Ruddlesden-Popper structure
PA-08	**Kenta Natsui** *(Tokyo metropolitan Univ.)*	Metallic Conduction in $Sr_{2.5}Bi_{0.5}NiO_5$ Epitaxial Thin Films by Controlling Growth Condition
PA-09	**Seitaro Inoue** *(Tohoku Univ.)*	Thickness Dependence of Electronic Structure and V-V Dimerization in VO_2 (110)R Ultrathin Films
PA-10	**Masahito Sakoda** *(Hokkaido Univ.)*	Thickness-Periodic Mott Insulators in $CaRuO_3$ Ultrathin Films: An Extraordinary Size Effect in Correlated Oxides
PA-11	**Yusaku Hamada** *(Hokkaido Univ.)*	Carrier-Doping-Induced Metal to Insulator Crossover in $CaRuO_3$ Thin Films
PA-12	**Aniket Bajaj** *(Indian Institute of Science Education and Research Kolkata)*	Thermal Runaway Instability Drives Electric Field Induced Breakdown of a Mott Insulator
PA-13	**Josei Fujiwara** *(Science Tokyo)*	Solid-phase synthesis of Cr-doped V_2O_3 thin films on α-Al_2O_3 (01-12) substrates exhibiting metal-insulator transition at room-temperature
PA-14	**Yuto Takatsu** *(Univ. of Tsukuba)*	Theoretical Study of SVILC Qubits in Bi-2212 Cuprate Thin Films

PA-15	**Yongjin Shin** *(Dankook Univ.)*	Revealing the temperature-dependent phase transitions of $LaTaO_4$ in Carpy-Galy structure
PA-16	**Sandra Glotzer** *(Caltech)*	Magnetic Field Induced Superconductivity in NbO
PA-17	**Linshen Xing** *(Tohoku Univ.)*	Anion-Gradient Engineering of Superconductivity in NbO-Based Oxynitride Epitaxial Thin Films
PA-18	**Shu Takashima** *(Science Tokyo)*	Repeated temperature modulation epitaxy of superconducting $LiTi_2O_4$
PA-19	**Michael Sing** *(Univ. of Würzburg)*	Waterfall-like Incoherent States and Electron–Plasmon Coupling in Compressively Strained $SrNbO_3$ Thin Films
PA-20	**Andrés Santander-syro** *(Université Paris-Saclay)*	Imaging the itinerant-to-localized transmutation of electrons across the metal-to-insulator transition
PA-21	**Takuya Takashiro** *(Tohoku Univ.)*	Direct Observation of Double Dirac-Cone Crossings and Strain-Enhanced Nontrivial Band Gap in a Topological Crystalline Insulator Thin Film
PA-22	**Ryu Yukawa** *(Tohoku Univ.)*	Carrier-density-driven evolution of two-dimensional electron systems on β-Ga_2O_3 surface
PA-23	**Suryo Putro** *(Tohoku Univ.)*	Microscopic Origin of Photoinduced Two-Dimensional Electron System Formation at β-Ga_2O_3 Surface
PA-24	**Miho Kitamura** *(NanoTerasu Center, QST)*	Current status of NanoTerasu $BL_{06}U$: beamline for micro- and nano-ARPES measurements
PA-25	**Sim Hanjun** *(Sungkyunkwan Univ.)*	Growth condition optimization for various chromium-oxide films by using an in- situ MBE-ARPES system
PA-26	**Ronny Sutarto** *(Canadian Light Source)*	Resonant soft x-ray scattering on layered nickelates and oxide interface
PA-27	**Hayato Konaka** *(Tohoku Univ.)*	in situ Synchrotron-Radiation Photoemission Spectroscopy of NbO_2 Ultrathin Films
PA-28	**Jasnamol Palakkal** *(Univ. of Göttingen)*	The Oxidation Behavior of Nb oxides seen by X-ray Photoemission Spectroscopy
PA-29	**Jessica Freese** *(Univ. of Saskatchewan)*	Exploring surface electronic structure in titanates by in situ synchrotron resonant x-ray reflectometry
PA-30	**Deok-yong Cho** *(Jeonbuk National Univ.)*	Depth Profiling of Electron States at Buried Interface
PA-31	**Mariana Palos** *(Imperial College London)*	Scan, Shift, Lock: Switching and Control of Ferroic Domain Walls via STEM Probe Trajectories
PA-32	**Ziqiao Wang** *(GBA Quantum Sci. Ctr.)*	Shubnikov-de Haas Oscillations Reaching the Quantum Limit in Two-Dimensional Electron Systems at $SrTiO_3$ (111) Interfaces

PA-33	**Kenta Nakanishi** *(The Univ. of Osaka)*	Lowest Proton Diffusion Barrier in $EuNiO_3$ Revealed by DFT and EIS
PA-34	**Merit Spring** *(Univ. of Würzburg)*	In-situ Strain Engineering of Complex Oxide Membranes
PA-35	**Giulia Meucci** *(Technical Univ. of Denmark)*	Quantum dots in Freestanding $LaAlO_3/SrTiO_3$ Micro-membranes
PA-36	**Laszlo Cline** *(Northwestern Univ.)*	Local Strain Engineering of Freestanding Crystalline $SrTiO_3$ Membranes
PA-37	**Sayaka Shindo** *(The Univ. of Osaka)*	Structural phase transformation freestanding zirconia membranes
PA-38	**José Martín Martínez Botana** *(Universidad Santiago de Compostela)*	Solid-state electrochemical functionalization of YBCO free-standing membranes
PA-39	**Rahil Haria** *(Imperial College London)*	Polar Textures from Ferroelastic Topology in a Metal Membrane
PA-40	**Evgenios Stylianidis** *(TU Wien)*	Guidelines for sputtering growth of strontium aluminate and ferromagnetic Sm_2NiMnO_6 membranes
PA-41	**Hiroaki Nishikawa** *(Kindai Univ.)*	Transfer of ZnO Thin Films Enabled by a Two-Step Sacrificial Layer Approach for Functional Hexagonal Crystal Films
PA-42	**Yuzuki Uchida** *(Tohoku Univ.)*	Highly Conductive Single-Crystalline Nb-Doped TiO_2 Membranes and Photochemically Accelerated Lift-Off for Transparent Oxides
PA-43	**Keitaro Kanno** *(Science Tokyo)*	van der Waals epitaxy of Ti_2O_3 films on hexagonal boron nitride toward freestanding oxide membranes
PA-44	**Nicole Engel** *(TU Darmstadt)*	Transfer Approaches for Free-Standing Perovskite Oxide Membranes
PA-45	**Seung Hyup Lee** *(Seoul National Univ.)*	Internal Bias Relaxation and Defect-Mediated Polarization Instability in Ferroelectric $Al_{0.72}Sc_{0.28}N$ Thin Films
PA-46	**Jungwoo Cho** *(Seoul National Univ.)*	Boosting Inversion Symmetry Breaking in Epitaxial Tetragonal ZrO_2 via Atomic Layer Deposition
PA-47	**Honghyun Jeon** *(Sungkyunkwan Univ.)*	Tunable ferroelectricity in epitaxial HfO_2/ZrO_2 multilayers via interface engineering
PA-48	**Minche Jo** *(Pusan National Univ.)*	First-Principles EELS spectrum analysis in defective HfO_2
PA-49	**Sizhao Huang** *(Technical Univ. of Denmark)*	Electro-Chemo-Mechanical Coupling in $Hf_{0.5}Zr_{0.5}O_2$ Ferroionic Heterostructures
PA-50	**Anudeep Tullibilli** *(IISc Bengaluru)*	Correlating Surface Topography with Ferroelectric and Leakage Phenomena in Hafnia Thin Films

PA-51	**Jinkyu Han** *(Jeonbuk National Univ.)*	Phase Transition Temperature Evolution in Ferroelectric Nanotubes with Different Wall Thicknesses via Electrical and Structural Characterization
PA-52	**Roham Talei Jeid** *(Univ. of Stuttgart)*	Substrate-Controlled Ferroelectric Domain Structure in Epitaxial $BaTiO_3$: A Real-Space View of the Oxygen Octahedral Network
PA-53	**Yuhan Liang** *(Tsinghua Univ.)*	Unconventional magnon spin polarization enabled by ferroelectric domain engineering in multiferroic oxide
PA-54	**Sunu Park** *(Jeonbuk National Univ.)*	Effect of $PbTiO_3$ Nanotube Wall Thickness on Piezoelectric Nanogenerator Performance
PA-55	**Jiyong Hyun** *(Jeonbuk National Univ.)*	Hydrothermal Synthesis of Tetragonal $BaTiO_3$ Nanotubes for Efficient Piezoelectric Nanogenerators
PA-56	**Geri Topore** *(Imperial College London)*	Atomic-scale characterisation of multiferroic oxide Aurivillius thin films using Transmission Electron Microscopy and Atom Probe Tomography
PA-57	**Lee Koomok** *(Science Tokyo)*	Electric-Field-induced Weakly Ferromagnetic Domain Change by Ferroelectric Topological Domain Switching in Co-Substituted $BiFeO_3$ Nanodots
PA-58	**Tomohiro Yabuki** *(Tokyo Univ. of Science)*	RF-magnetron-Sputtered Sc:TiO_2 Thin Films Exhibiting High-ON/OFF ratio Bipolar Resistive Switching Properties
PA-59	**Tom Zander** *(Univ. of Cologne)*	Antiferroelectric-like polarization reversal induced by ordered polar vortices
PA-60	**Masao Nakamura** *(Tohoku Univ.)*	Giant shift current in ferroelectric halide perovskite $CsGeI_3$ epitaxial thin films
PA-61	**Chihwan An** *(Seoul National Univ.)*	Expanding the Polarization Window of Epitaxial $Hf_xZr_{1-x}O_2$ through an Unconventional Ferroelectric Switching Pathway
PA-62	**Janine Gückelhorn** *(Institut de Ciència de Materials de Barcelona)*	Enhanced Rashba Spin-Orbit Interactions in polar oxide 2DEGs
PA-63	**Thomas Buttiens** *(Laboratoire Albert Fert)*	Toward Non-Volatile Ferroelectric Spin-Orbit Devices: A Room-Temperature 2DEG in STO/PZT Heterostructures
PA-64	**Yeonjae Lee** *(Seoul National Univ.)*	Interfacial polarity control of anomalous Hall effect in $LaCoO_3$-$SrIrO_3$ heterostructures
PA-65	**Tatsuro Endo** *(The Univ. of Tokyo)*	Room-temperature spin-polarized transport in $SrTiO_3$-based two-dimensional electron gas
PA-66	**Chun-chung Hsu** *(National Tsing Hua Univ.)*	Configurational-Entropy-Enabled Tunable Relaxor Transition and Dielectric Response Broadening in High-Entropy Ferroelectric Thin Films
PA-67	**Si Won Kim**	Potential realization of geometrical ferroelectricity in iron-based

	(Sungkyunkwan Univ.)	Grenier epitaxial thin films
PA-68	**Akiko Kamigaito** *(Ochanomizu Univ.)*	Ferroelectricity and magnetic order at room temperature and electronic states of bismuth iron oxyfluoride thin films
PA-69	**Yuuki Masutake** *(Tohoku Univ.)*	Engineering Interfacial Charge Transfer in $SrNbO_3/SrTiO_3$ heterostructures via $SrZrO_3$ barrier layers toward the development of transparent oxide transistors
PA-70	**Hyeonjun Kong** *(Hokkaido Univ.)*	Flexible In_2O_3 Thin-Film Transistors with High-Mobility (~75 cm2 V-1 s-1)
PA-71	**Tohru Higuchi** *(Tokyo Univ. of Science)*	All-Solid-State Redox Transistor Using VO_2 Thin Film and Li^+ Solid Electrolyte
PA-72	**Ertürk Enver Yildirim** *(TU Dresden)*	Solution-Processed All-Metal-Oxide Permeable-Base Transistors for High-Current-Density Vertical Oxide Electronics
PA-73	**Hisashi Inoue** *(AIST)*	Human-Interactive Reservoir Computing using an Oxide Ionic Drift-Diffusion Transistor
PA-74	**Muhaimin Mareum Khan** *(Cornell Univ.)*	First Demonstration of Suboxide Molecular-beam epitaxy Grown p-Type SnO TFT
PA-75	**Satoshi Hamasuna** *(Kyushu Univ.)*	Harnessing Surface-Dominant Proton Transport for Reservoir Computing in VO_2 Two-Terminal Devices
PA-76	**Harutaka Koyama** *(Waseda Univ.)*	Low-Temperature RF Switching Device Using the Metal-Insulator Transition of W-Doped VO_2 Thin Films
PA-77	**Max Buczek** *(Forschungszentrum Jülich)*	Amorphous, Highly Conductive $Pr_{0.7}Ca_{0.3}MnO_3$ for Area-Dependent Resistive Switching Devices
PA-78	**Maya Umezaki** *(The Univ. of Osaka)*	Observation of Resistive Switching in NbO_2 Thin Films and Analysis Using a Two-State Model
PA-79	**Ever Quintero-camargo** *(Univ. of Twente)*	Tailoring a Novel $Li_{1.25}Cr_{0.25}Ti_{1.5}O_4$ Anode for Thin Film Microbatteries
PA-80	**Kazunori Nishio** *(The Univ. of Tokyo)*	Interfacial Engineering for Rapid Charging 5V-Class Thin-Film All-Solid-State Li Batteries
PA-81	**Kota Hanzawa** *(Science Tokyo)*	A Novel Transparent n-Type Semiconductor β-TeO_3
PA-82	**Ryota Takahashi** *(Nihon Univ.)*	PLD Growth of $ZnO/Mg_xZn_{1-x}O$ Superlattices for Quantum Cascade Laser
PA-83	**Ojas Shanker** *(Univ. of Twente)*	Calcium Niobate Nanosheet templated monolithic integration of Barium Titanate thin films for Silicon Nitride Integrated Photonics
PA-84	**Takanori Shinohara** *(Tokyo Metropolitan Univ.)*	Epitaxial Synthesis and Physical Properties of $BaNbO_3$ as a Transparent Conductor