

Program of JKC-FE14

*All oral presentations include 5 minutes for discussion.

Aug. 29 (Thu.)

Registration

15:00- 17:00 Rohm Plaza, Biwako-Kusatsu Campus (BKC)
Registration desk will be opened from 9:00 to 17:00 on Aug. 30, and from 9:00 to 13:50 on Aug.31.

Welcome Reception

17:00- 19:00 Rohm Plaza 1st Floor Hall, Biwako-Kusatsu Campus (BKC)

Aug. 30 (Fri.)

Rohm Plaza 5th Floor Main Conference Hall

Opening & Commemorative Remark

9:00 - 9:15 Akitoshi Koreeda (Ritsumeikan Univ.), Toshirou Yagi (Hokkaido Univ.)
Chan-Ho Yang (KAIST), Chul-Hong Park (Pusan National Univ.)

Plenary Session 1

Session Chairs: Junwoo Son (Seoul National Univ.) and Takeshi Yoshimura (Osaka Metropolitan Univ.)

9:15 - 10:00 PL-1 Seungbum Hong (KAIST)
Visualization of Polarization and Ion Distribution in Ferroelectric Materials

Coffee Break

10:00- 10:15

Session 1

Session Chair: Yongsoo Yang (KAIST)

10:15- 10:45 I-1 Si-Young Choi (POSTECH)
Ferroelectricity by phonon-decoupled oxygen tetrahedra in brownmillerite oxides

10:45- 11:15 I-2 Daisuke Morikawa (Tohoku Univ.)
Local structure analysis of polar domain boundary using convergent-

- beam electron diffraction
- 11:15- 11:30 O-1 A Young Cho (Sejong University)
Controlling Oxygen Vacancy Migration for Enhanced Photoelectrochemical Properties in $\text{SrTiO}_{3-x}/\text{Nb}:\text{SrTiO}_3$ Photoanodes
- 11:30- 11:45 O-2 Hongwu Yu (Okayama Univ.)
Charge Order Transition and the Electric Polarization in YFe_2O_4
- 11:45- 12:00 O-3 Nobuo Nakajima (Hiroshima Univ.)
Dielectric Response of SrTiO_3 Thin Films under AC Field Probed by Microsecond Time-Resolved X-ray Absorption Spectroscopy

Lunch Break / Committee Meeting

12:00- 13:15

Session 2

Session Chair: Tomoaki Yamada (Nagoya Univ.)

- 13:15- 13:45 I-3 Shinya Tsukada (Shimane Univ.)
Exploring Ferroelectrics with Gradients for Phase Diagram Understanding
- 13:45- 14:15 I-4 Hyungjeen Jeon (Pusan National University)
Controlling phases in oxygen sponge $\text{SrFe}_{1-x}\text{Co}_x\text{O}_{3-\delta}$
- 14:15- 14:45 I-5 Hiroki Matsuo (Kumamoto Univ.)
Enhancement of Photovoltaic Effects in Ferroelectric Oxides by Gap-State Engineering
- 14:45- 15:00 O-4 Yongsoo Yang (KAIST)
Three-Dimensional Polar Topology in Ferroelectric Nanoparticles
- 15:00- 15:15 O-5 Hiroko Yokota (Tokyo Tech.)
Visualization of ferroaxial domain structure by using a circularly polarized SHG

Coffee Break

15:15- 15:30

Session 3

Session Chair: Sang Mo Yang (Sogang Univ.)

- 15:30- 16:00 I-6 Takashi Teranishi (Okayama Univ.)
Fast Charge Transfer via Dielectric Interface in Secondary Batteries
- 16:00- 16:30 I-7 Jun Hee Lee (UNIST)
Origin of Zero-Energy-Cost Domain Walls beyond Flat Phonon Band in HfO_2

- 16:30- 17:00 I-8 Kim Sangwook (Hiroshima Univ.)
Role of structural disorder on ferroelectricity in lead-free BiFeO₃-based piezoelectric materials
- 17:00- 17:15 O-6 Xueyou Yuan (Nagoya Univ.)
Extraordinarily large extrinsic contribution ratio to piezo-response in monoclinic (K,Na)NbO₃ epitaxial films
- 17:15- 17:30 O-7 Miki Nakahata (Tokyo Tech.)
Impact of domain switching to lattice deformation under applying an electric field in tetragonal (100)/(001)-oriented Pb(Zr,Ti)O₃ epitaxial films
- 17:30- 17:45 O-8 Sang Hyo Kweon (Kobe Univ.)
Contribution of Domain Structure Change to Direct and Converse Piezoelectricity in Sol-gel Epitaxial Pb(Zr_{0.3}Ti_{0.7})O₃ Thin Film

Poster Session 1 with snacks and drinks

Session Chair: Takeshi Yoshimura (Osaka Metropolitan Univ.)

18:00- 19:45 Posters P1-1 - P1-35

Rohm Plaza 1st Floor Hall (snacks and drinks will be provided)

Aug. 31 (Sat.)

Rohm Plaza 5th Floor Main Conference Hall

Keynote Session

Session Chairs: Min Hyuk Park (Seoul National Univ.) and Seiji Nakashima (Univ. Hyogo Univ.)

9:00 - 9:45 KN-1 Cheol Seong Hwang (Seoul National Univ.)
Dynamic random access memory: Current challenges and future directions

Coffee Break

9:45 - 10:00

Session 4

Session Chair: Seiji Nakashima (Univ. Hyogo Univ.)

10:00- 10:30 I-9 Seung Chul Chae (Seoul National University)
Atomic Layer Deposition of Epitaxial Ferroelectric Hf_{0.5}Zr_{0.5}O₂ Thin Film

10:30- 11:00 I-10 Jang-Sik Lee (POSTECH)

- Hafnia-based Ferroelectric Transistors for Memory and Neuromorphic Device Applications
- 11:00- 11:15 O-9 Dong Hee Han (Seoul Nat. Univ.)
Impact of deposition temperature on structural and electrical properties of (111)-oriented $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2/\text{TiN}$ stacks
- 11:15- 11:30 O-10 Se Hyun Kim (Seoul Nat. Univ.)
Non-centrosymmetric crystallization in 8 nm HZO thin films via DUV irradiated defect modulation
- 11:30- 11:45 O-11 Dong Hyun Lee (Seoul Nat. Univ.)
Self-rectifying Ferroelectric Tunnel Junction Based on $\text{HfO}_2/\text{ZrO}_2/\text{HfO}_2$ Superlattice and its Application for Neuromorphic Computing

Poster Session 2 with Lunch Box

Session Chair: Kenji Ohwada (QST)

- 11:45- 13:15 Posters P2-1 - P2-34
Rohm Plaza 1st Floor Hall (Lunch box will be distributed)

Session 5

Session Chair: Woo Seok Choi (Sungkyunkwan Univ.)

- 13:15- 13:45 I-11 Ken Takeuchi (Univ. of Tokyo)
Ferroelectric FET-based Computation-in-Memory (CiM) for Edge AI
- 13:45- 14:15 I-16 [Wook Jo \(UNIST\)](#)
[Developing New Functionalities for Perovskite Ferroelectric Oxides](#)
- 14:15- 14:45 I-13 Ayako Taguchi (Japan Fine Ceramics Center)
Searching for Non-Perovskite Ferroelectrics using First-Principles Calculations
- 14:45- 15:00 O-12 KM. S. Kim (Pusan Nat. Univ.)
Study of effect of transition metal ion doping in perovskite oxides through DFT calculation
- 15:00- 15:15 O-13 Eiichi Oishi (Ritsumeikan Univ.)
Selective observation of enantiomeric chiral phonons in α -quartz by circularly polarized Raman spectroscopy

Coffee Break

15:15- 15:30

Session 6

Session Chair: Yuji Noguchi (Kumamoto Univ.)

- 15:30- 16:00 I-14 Woo Seok Choi (Sungkyunkwan University)
Dimensionality-Controlled Electromagnetic Properties in Perovskite Ruthenate Superlattices
- 16:00- 16:30 I-15 Seiji Nakashima (Hyogo Pref. Univ.)
Bulk Photovoltaic Effects in Mn-doped BiFeO₃ Thin Films
- 16:30- 16:45 O-14 Sam Yeon Cho (Jeonbuk Nat. Univ.)
Enhanced energy storage performance and thermal stability of BNKT-BBN solid solution ceramics
- 16:45- 17:00 O-15 Sengsavang Aphayvong (Osaka Metro. Univ.)
Electromechanical properties of epitaxial BiFe_{1-x}Mn_xO₃ film for piezoelectric MEMS vibration energy harvester
- 17:00- 17:15 O-16 Tae Kwon Song (Changwon Nat. Univ.)
Ferroelectric Polarizations, Aging, Defect Dynamics, and Piezoelectric Hardening in BiFeO₃-BaTiO₃ Lead-free Ceramics
- 17:15- 17:30 O-17 Takeshi Yoshimura (Osaka Metro. Univ.)
Physical Reservoir Computing using Piezoelectric MEMS for Edge AI
- 17:30- 17:45 O-18 Yoon Seok Oh (UNIST)
Dielectric Properties of BaZrO₃ Single Crystals: Temperature Dependence

Bus Transportation for Conference Dinner

18:00- 18:45

Conference Dinner

19:00- 21:00 Lake Biwa Otsu Prince Hotel (Otsu city), 2nd Floor Oumi Room

Bus transportation for Otsu Station (2 buses), for BKC (1 bus) via Minami-Kusatsu Station

21:00- 22:00

Sep. 1 (Sun.)

Rohm Plaza 5th Floor Main Conference Hall

Plenary Session 2

Session Chairs: Chan-Ho Yang (KAIST) and Hiroki Moriwake (Japan Fine Ceramics Center)

- 9:00 - 9:45 PL-2 Naoshi Ikeda (Okayama Univ.)
Electronic Ferroelectricity in RFe₂O₄

Coffee Break

9:45 - 10:00

Session 7

Session Chair: Yooun Heo (Inha University)

- 10:00- 10:30 I-12 Yooun Heo (Inha University)
Light-induced piezoelectricity enhancement in BiFeO₃
- 10:30- 10:45 O-19 Koomok Lee (Tokyo Tech.)
High-spin Co³⁺ as a trigger of weak ferromagnetism in Co substituted BiFeO₃
- 10:45- 11:00 O-20 Minhoo Kang (KAIST)
Structural and electronic conduction properties of hydrogen-annealed WO₃ films
- 11:00- 11:15 O-21 Zerui Li, (Tokyo Tech.)
Synthesis of a novel titanite-type oxide PbTiGeO₅

Closing Remark

- 11:15- 11:30 Akitoshi Koreeda (Ritsumeikan Univ.)
Chan-Ho Yang (KAIST)

Bus transportation for Excursion

- 11:45- 12:45 From BKC to Otsu Port

Excursion

- 13:00- 14:30 Lake Biwa cruising with buffet

Bus transportation via Otsu Station and Minami-Kusatsu Station, for BKC

- 14:45- 16:00

Poster Session

*All posters should be displayed throughout Poster Sessions 1 & 2. Authors of poster presentation are needed to put their posters on the board before Poster Session 1 on Aug.30.

Aug. 30 (Fri.)

Poster Session 1 : Rohm Plaza 1st Floor Hall

Session Chair: Takeshi Yoshimura (Osaka Metropolitan Univ.)

18:00-19:45 Posters P1-1 - P1-35

- P1-1 Defect-Mediated Stabilization of HfO₂
Yeongrok Jin and Jaekwang Lee
- P1-2 Synthesis method and composition control for decreasing secondary phase of K_{1-x}Li_xNbO₃ (KLN), and dielectric characteristics of KLN according to composition change and Li amount
Tae-Soo Yeo, Ju-Hyeon Lee, and Wook Jo
- P1-3 Infrared and Raman Spectroscopy of Hafnium dioxide Polymorphs
Seongmun Kim, Jaekwang Lee
- P1-6 Flexible HZO/LSMO Memristor, Evaluating Memristive Performance under Mechanical Strain for Wearable Electronics
Turgun Boynazarov, Joonbong Lee, Hyunbin Chung, Dae Haa Ryu, Taekjib Choi
- P1-7 Measurements of output characteristics of vertical nanowire transistors with (Hf,Zr)O₂ thin films
Yui Hamamoto, Ai I. Osaka, Seiji Nakashima and Hironori Fujisawa
- P1-8 Theoretical studies on the surface functionalization of Cr₂M (M=C, N) MXenes with oxygen and fluorine
Bakhtiar Ul Haq, Se-Hun Kim
- P1-9 Correlation between surface topography and charge gradient current signal at ferroelectric domain walls
Uichang Jeong, Seongwoo Cho, Seungbum Hong
- P1-10 Exploration of novel dielectric materials with 1D-octahedral chains
Hiroki Taniguchi
- P1-11 Construction of Circularly Polarized Hyper Raman Spectroscopy System
Yugo Kusano, Akitoshi Koreeda, Eiichi Oishi, Yasuhiro Fujii
- P1-12 First-principles theoretical study on polaronic dielectrics: Electronic structures and dynamics of defect induced polarons in SrTiO₃ perovskite
Inkyung Kim, Ju Hun Park, Kang-Sahn Kim, Yonghwan Yun, Gi Joo Bang, Eunjung Kim, and Shin'ichi G. Higai
- P1-13 Structural Inhomogeneity of Relaxor Ferroelectric PMN in the Paraelectric Phase Revealed by Synchrotron Radiation X-ray Diffraction
Kayoko Sakaguchi, Sangwook Kim, Hidehiro Ohwa, Kenji Ohwada, Norihiro Oshime, Shinya Tsukada, and Yoshihiro Kuroiwa
- P1-14 Non-equilibrium phase HfO₂ thin films on Si substrate by ALD method
Ryuto Ichikawa, Takeshi Yoshimura, and Norifumi Fujimura

- P1-15 Charging and Discharging Currents along Non-ferroelectric Crystallographic Axis in TGS
Toshio Kikuta
- P1-16 Surface-Engineered BaNiO₃ Perovskite as Promising Electrocatalyst for Oxygen Evolution Reaction
Jun-Yong Choi and Wook Jo
- P1-17 Low-frequency Raman spectroscopy in layered ferroelectric WTe₂
Hiroyuki Nema, Yasuhiro Fujii, Eiichi Oishi, Akitoshi Koreeda
- P1-18 Self-poling in Modified Pb(Mg,Nb)O₃-PbTiO₃ Single Crystals
Ga Hui Hwang, Ye Rok Choi, Ho-Yong Lee and Chae Il Cheon
- P1-19 Enhancement in Polarization of Al-doped HfO₂ Thin Films Crystallized by Flash Lamp Annealing
T. Mifune , H. Tanimura , Y. Ueno , H. Fujisawa , S. Nakashima , Ai I. Osaka , S. Kato , T. Mikawa
- P1-21 Effect of Surface Treatment on the Structural and Chemical Properties of Nb-doped SrTiO₃ Substrates
Minjae Son, Karishma Sualiheen, Sangjin Choi, Seung Gyo Jeong, Jong-Seong Bae, Seungyong Eom, Do Hyung Kim, Joonghoe Dho, Bharat Jalan, Dooyong Lee, Kyeong Tae Kang
- P1-22 Volatile Threshold Switching Induced by Charge Trapping on Interface-Engineered Hafnia-based Ferroelectric Ultra-thin Films
Joonbong Lee, Myeong Seop Song, Hojin Lee, Dae Haa Ryu, Young-Min Kim, Seung Chul Chae, Taekjib Choi
- P1-23 Mechanical Switching of Epitaxial Ferroelectric Hf_{0.5}Zr_{0.5}O₂ Thin films
Heechan Bang and Chan-Ho Yang
- P1-25 Epitaxial growth of Ce, Mn substituted ZnO thin films by combinatorial sputtering
Moe Sakaguchi, Hiroya Oiso, Norifumi Fujimura and Takeshi Yoshimura
- P1-26 Strain-induced ferroelectric phase transition in SrFe₁₂O₁₉
Seungjae Hwang, Yeongrok Jin, Jaejin Hwang, Jaekwang Lee
- P1-27 Enhancement of Dielectric Permittivity for (1-x)Pb(In_{1/2}Nb_{1/2})O₃-0.05Pb(Mg_{1/3}Nb_{2/3})O₃- xPbTiO₃ Morphotropic Phase Boundary Composition by Single Phase Poling
Woo-Jin Choi, Jeong-Woo Sun, Temesgen Tadeyos Zate and Wook Jo
- P1-28 Reversible hydrogen control of the superconducting state in the La_{2-x}Ce_xCuO₄ thin films
Jaehyun Lee, Chan-Ho Yang
- P1-29 Low Temperature Sintering of BiFeO₃-BaTiO₃ Ceramics with Enhanced Piezoelectric Properties by Optimizing Calcination Conditions
Ye Rok Choi, Ga Hui Hwang, Jeong-Seog Kim and Chae Il Cheon
- P1-31 Optimization of the 4-nm-thick Hf_{1-x}Zr_xO₂ film with low operating voltage and high endurance for ferroelectric random access memory
Han Sol Park, Seungheon Choi, Kyung Do Kim, Min Kyu Yeom, Suk Hyun Lee, Seung Kyu Ryoo, and Cheol Seong Hwang
- P1-32 Role of a YSZ-buffer layer for epitaxial oxide thin films on Si substrates

- Gwancheol Ji, Suji Im, Sungkyun Park, Jong Mok Ok
- P1-33 Catalytic support effect of PdO/ZrO₂ in the acetylene trimerization
Masashi Nakamoto, Teruki Yano, Tomoko Okubo, Jun Kano, Yuta Nishina, Satoshi Hinokuma, Tatsuo Fujii
- P1-34 In-Situ Observation of Bi Atoms in Mn-Doped BiFeO₃ Thin Films under Electric Field by X-Ray Fluorescence Holography
Kazuki Arima, Seiji Nakashima, Ai I. Osaka, Koji Kimura, Halubai Sekhar, Naohisa Happo, Koichi Hayashi, and Hironori Fujisawa
- P1-35 Bandgap Engineering of ZnO@CdS Nanocomposite for Efficient Visible Light-Driven H₂ Evolution via Photocatalysis
Asim Ali, Kyeong Tae Kang

Aug. 31 (Sat.)

Poster Session 2 : Rohm Plaza 1st Floor Hall

Session Chair: Kenji Ohwada (QST)

11:45-13:15 Posters P2-1 - P2-34

- P2-1 Cancelled
- P2-2 Control of the phase formation of strongly correlated ferroelectric YbMnO₃ thin films and effect on dielectric characteristics
Sodai Ichikawa, Kento Shimamoto, Takeshi Yoshimura and Norifumi Fujimura
- P2-3 Preparation of freestanding films using barium titanate nanoparticles
Hirosi Takashima, Tetsuhiro Katsumata, Yoshihiro Takebayashi, Takumi Ono, Kiwamu Sue
- P2-4 High-resolution Brillouin scattering spectroscopy on relaxor PMN-PT by using a new offset-stabilizing technique of a tandem Fabry-Perot interferometer
Kodai Kadono, Yasuhiro Fujii, Akitoshi Koreeda
- P2-5 Vibrational, Optical and Elastic Properties of Cs₂AgBiX₆ (X= Br, Cl) Double Perovskites
Furqanul Hassan Naqvi, Jae-Hyeon Ko, Tae Heon Kim, Chang Won Ahn, Younghun Hwang
- P2-6 Enhancement of Negative Capacitance Effects via Structural Phase Optimization in Hf_xZr_{1-x}O₂ Capacitors
Yoon-Ki Kim, Jae-Heon Lee, Yu-Bin Park, Sang-Won An, Ji-Sung Oh, Hyun-Jung Kim and Sang-Mo Yang
- P2-7 Unipolar Mechanical Fatigue of Piezoelectric Energy Harvester
Seongmun Eom, Jeongjae Ryu, Seungwoo Cho, Jiwon Yeom, and Seungbum Hong
- P2-8 Correlation between Charge Ordering, Crystal Phase, and Magnetic Properties of Ilmenite-hematite Solid-Solution Films
Hyeonyu Kim, Sehwan Song, Hyunkyung Lee, Jisung Lee, Minjae Kim, Jinbae Lee, Sang Won Hwang, Sangmoon Yoon, Younjung Jo, Jong Mok Ok, Jae-Ho Chung, Sungkyun Park, Dooyong Lee

- P2-9 Enhanced Charge Generation in Flexible Cu(In,Ga)Se₂ Solar Cells under Stress via Alkali Treatment: Maximizing the Piezoelectric Effect
Ha Kyung Park, Kanghoon Yim, Jiyeon Lee, Yunae Cho, Inyoung Jeong, Donghyeop Shin, Jihye Gwak, Kihwan Kim, Aron Walsh, William Jo
- P2-10 Room-temperature multiferroicity induced by composition-dependent spin exchange interaction in Pb(Fe_{1/2}Nb_{1/2})O₃
Ji-Hun Park, Wook Jo
- P2-11 Investigation of the surface chemical state of SrFeO_{2.5} films during topotactic phase transition using ambient pressure X-ray photoelectron spectroscopy
Yunzyne Kim, Hyeonyu Kim, Sehwan Song, Beomgyun Jeong, Jong-Seong Bae, Woo Seok Choi, Dooyong Lee, Sungkyun Park, Kyeong Tae Kang.
- P2-12 Piezoelectrically Engineered Scaffolds for Accelerating Bone Regeneration
Soyun Joo, Yonghyun Gwon, Soyeon Kim, Sunho Park, Jangho Kim, and Seungbum Hong
- P2-13 Changes of Piezoelectric and Optical properties in K_{0.52}Na_{0.48}NbO₃ ceramics by Sm³⁺/Sr²⁺ co-doping
Jiwoo Seo, Sangwon Wi, Haiin Choi, Jinseok Chung, Yunsang Lee
- P2-14 Ferroelectric Materials Studies using First-principles Calculations and Materials Informatics
Hiroki MORIWAKE
- P2-15 Impulsive Stimulated Thermal Scattering in Potassium Tantalate
Takahiro Okada, Hideaki Oe, Kazuto Kamata, Akitoshi Koreeda, Yasuhiro Fujii
- P2-17 Probabilistic Processing of Experimentally Obtained Preisach Density Mapping for modeling ferroelectric switching dynamics
Seungyong Byun and Cheol Seong Hwang
- P2-18 Conformal Nanocrystalline Oxide Hard Coatings for 3D Complex Cutting Tools
Dae Haa Ryu, Joonbong Lee, Hyunbin Chung, A Young Cho, Sangwoo Lee, Boynazarov Turgun, Heeseo Yun, Yoonseong Kim, Ki Buem Kim and Taekjib Choi
- P2-19 Apparatus for Bragg Coherent X-ray Diffraction Imaging at QST/SPring-8
K. Ohwada, N. Oshime, K. Sugawara, A. Shimada, M. Shao, A. Machida, T. Watanuki and Y. Kuroiwa
- P2-21 Influence of HfN_{0.4} Bottom Electrode Oxidation on AlScN Thin Films: A Comparative Study of In-situ and Ex-situ Deposition at Bottom and Top Interfaces
Seung Kyu Ryoo and Cheol Seong Hwang
- P2-22 Yttria-stabilized bismuth oxide based ferroelectric thin film for Ferroelectric Tunnel Junction Device
Heeseo Yun, Hyunbin Chung, Dae Haa Ryu, Sangwoo Lee, A Young Cho, Joonbong Lee and Taekjib Choi
- P2-24 Stress-induced crystallization of (Hf,Zr)O₂ thin films and their application to ferroelectric thin-film transistors
Takeshi Asuka, Ai I. Osaka, Seiji Nakashima and Hironori Fujisawa
- P2-25 Measurement of the elastic and piezoelectric constants of BiFeO₃ by Brillouin scattering

- Hiromu Ishida, Akitoshi Koreeda, Eiichi Oishi, Yasuhiro Fujii, Takuya Satoh, Toshimitsu Ito
- P2-26 Structural and ferroelectric properties of SnTiO₃ thin films
Jihun Kim, Yong-Jun Kwon, Ducy-Duy Lee, and Chan-Ho Yang
- P2-27 Preliminary Experiments for Photovoltaic Effect in TGS
Kango Miyazaki, Toshio Kikuta
- P2-28 Two-Dimensional Electron Confinement in Antipolar Ordered Metallic SrFeO₃
Jaejin Hwang, Jaekwang Lee
- P2-30 Enhanced Poling Efficiency of a Piezoelectric Nanocomposite via a Maximized Organic-Inorganic Interfacial Effect
Yeongyu Kim, Kyung Tae Kim, Sung Cheol Park, Dong Hun Heo, Dong Yeol Hyeon, Siva Pratap Reddy Mallem, Seungbum Hong, Kwi-Il Park
- P2-31 Effect of A-site cation on the Structural Distortions and Phase Transitions in Mixed Lead Chloride Perovskite Single Crystals
Syed Bilal Junaid, Furqanul Hassan Naqvi, Jae-Hyeon Ko, Shon Wonhyuk, Seongsu Lee
- P2-32 Strain control of (K, Na)NbO₃ films for the enhanced piezoelectric property
Nagi Chujo, Kohei Kawade, Takanori Nagasaki, Jingwei He, Isaku Kanno, Tomoaki Yamada
- P2-33 Composition Control of YbFe₂O₄ Electronic Ferroelectric Thin Films with PLD Growth Process Monitoring
Kento Shimamoto, Takaumi Hayama, Sodai Ichikawa, Takeshi Yoshimura, and Norifumi Fujimura
- P2-34 High-performance Hafnia-based Ferroelectric Synaptic device with Anti-ferroelectric Interfacial Layer
Dae Haa Ryu, Joonbong Lee, A Young Cho, Juhyeong Lee and Taekjib Choi