

## CJFMA14 Arrangement

Dec. 8, 2022 (Japan/Korea Standard Time)		
Opening Address	9:00-9:05	Tomoaki Karaki (Zhiming Chen)
Plenary Talks	9:05-9:45 (I-1)	Norihiko Oshime
	9:45-10:25 (I-2)	Jiangyu Li
Introduce of CJFMA15	10:25-10:35	Jun Ouyang
Break	10:35-10:45	
Invited Session A	10:45-11:05 (A-1)	Takeshi Yoshimura
	11:05-11:25 (A-2)	Hang Luo
	11:25-11:45 (A-3)	Yaojin Wang
	11:45-12:05 (A-4)	Jun Ouyang
	12:05-12:25 (A-5)	Yiping Guo
Lunch	12:25-13:30	
Invited Session B	13:30-13:50 (B-1)	Hiroaki Takeda
	13:50-14:10 (B-2)	Yuui Yokota
	14:10-14:30 (B-3)	Limei Zheng
	14:30-14:50 (B-4)	Muneyasu Suzuki
	14:50-15:10 (B-5)	Yongke Yan
	15:10-15:30 (B-6)	Yohachi Yamashita
	15:30-15:50 (B-7)	Chengtao Luo
Break	15:50-16:00	
Invited Session C	16:00-16:20 (C-1)	Nan Zhang
	16:20-16:40 (C-2)	Zhiguo Yi
	16:40-17:00 (C-3)	Jing Wang
	17:00-17:20 (C-4)	Zhengqian Fu
	17:20-17:40 (C-5)	Xiao Yu
	17:40-18:00 (C-6)	Yanxue Tang
	18:00-18:20 (C-7)	Jie Jiao
Banquet	19:00-20:30	

Dec. 9, 2022 (Japan/Korea Standard Time)		
Invited Session D	9:00-9:20 (D-1)	Bo-Ping Zhang
	9:20-9:40 (D-2)	Dawei Wang
	9:40-10:00 (D-3)	Hajime Nagata
	10:00-10:20 (D-4)	Zhang Jialiang
	10:20-10:40 (D-5)	Wataru Sakamoto
	10:40-11:00 (D-6)	Zhiyong Zhou
Break	11:00-11:10	
<u>Poster Session</u>	11:10-12:40	<u>P-01 – P-31</u>
Lunch	12:40-13:30	
Invited Session E	13:30-13:50 (E-1)	Yuji Noguchi
	13:50-14:10 (E-2)	Hua Hao
	14:10-14:30 (E-3)	Zhigao Hu
	14:30-14:50 (E-4)	Satoshi Wada
	14:50-15:10 (E-5)	Masaki Yamaguchi
	15:10-15:30 (E-6)	Wei Ren
	15:30-15:50 (E-7)	Shinya Tsukada
Break	15:50-16:00	
Invited Session F	16:00-16:20 (F-1)	Laiming Jiang
	16:20-16:40 (F-2)	Jun Akedo
	16:40-17:00 (F-3)	Eisuke Tokumitsu
	17:00-17:20 (F-4)	Rao Badari Narayana
	17:20-17:40 (F-5)	Jundong Song
	17:40-18:00 (F-6)	Jing Yan
	18:00-18:20 (F-7)	Xueyou Yuan
	18:20-18:40 (F-8)	Lisha Liu
Closing Remarks	18:40-18:50	Tomoaki Karaki (Zhiming Chen)

## List of Poster (11:10-12:40, Dec. 9, 2022)

No.	Name	Affiliation
P-01	Yao Su	Baoji University of Arts and Sciences
P-02	Yu Xie	Nanjing University of Aeronautics and Astronautics
P-03	Jinfeng Lin	Tongji University
P-04	Takayasu Shigemasu	Hiroshima University
P-05	Xiaonan Ma	Shanghai University
P-06	Mingyang Shao	Hiroshima University
P-07	Adil Emin	Lanzhou University
P-08	Xianfa Ai	Nanjing University of Aeronautics and Astronautics
P-09	Takumi Nozaki	Nagoya Institute of Technology
P-10	Zhe Wang	Xi'an Jiaotong University
P-11	Peimei Yuan	Baoji University of Arts and Sciences
P-12	Atsuto Fujisawa	Shizuoka University
P-13	Yu Xiang	Shonan Institute of Technology
P-14	Kohei Miyaji	Osaka Metropolitan University
P-15	Shuting Yang	Shandong University
P-16	Kazuto Yoshida	Shizuoka University
P-17	Soma Sakoda	Osaka Metropolitan University
P-18	Xiaojie Li	Shanghai University
P-19	Seiji Sogen	Shizuoka University
P-20	Weiwei Yang	Shanghai Institute of Ceramics
P-21	Hongrui Jia	Xi'an Jiaotong University
P-22	Jun Hirade	Shibaura Institute of Technology
P-23	Kun Zhu	Tongji University
P-24	Jin Qian	Tongji University
P-25	Ying Shi	Shanghai Institute of Ceramics
P-26	Fei Jing	Baoji University of Arts and Sciences
P-27	Tomohiro Nishimoto	Shizuoka University
P-28	Ruixuan Xue	Baoji University of Arts and Sciences
P-29	Bo Zhao	Baoji University of Arts and Sciences
P-30	Nina Dai	Baoji University of Arts and Sciences
P-31	Shicheng Peng	Tokyo Institute of Technology

## **PROGRAM**

(Hybrid format)

Dec. 8, 2022 (Japan/Korea Standard Time)

9:00      Opening address,    Tomoaki Karaki (Zhiming Chen)

### **Oral Session**

9:05-10:35   Plenary Session    Chair: Hiroaki Takeda (Saitama University)

9:05    I-1

Bragg Coherent X-ray diffraction for visualization of the inhomogeneous structure of a single ferroelectric particle

N. Oshime, K. Ohwada, K. Sugawara, A. Shimada, N. Fukushima, T. Ueno, A. Machida, T. Watanuki, S. Ueno, I. Fujii, S. Wada, K. Momma, K. Ishii, H. Toyokawa, S. Kim, S. Tsukada, and Y. Kuroiwa

National Institutes for Quantum Science and Technology, Japan

9:45    I-2

Polar orders across scales: the effect of strain and mechanics

Jiangyu Li

Southern University of Science and Technology, China

10:45-12:25   Invited Session A   Chair: Yuui Yokota (Tohoku University)

10:45    A-1

Energy Harvesting from Electric Power Lines Using Piezoelectric Resonator

Takeshi Yoshimura, Shuichi Murakami, and Norifumi Fujimura

Osaka Metropolitan University, Japan

11:05    A-2

Improved capacitive energy storage nanocomposites at high temperature utilizing ultralow loading of bimetallic MOF

Hang Luo, Fan Wang, Xiaona Li, Dou Zhang

Central South University, China.

11:25    A-3

Ferroelectrics for emerging oral bioelectronics

Yaojin Wang, Xuehui Zhang and Xuliang Deng

Nanjing University of Science and Technology, China

11:45    A-4

High performance dielectric energy storage via nanograin engineering in ferroelectric/antiferroelectric film capacitors

Jun Ouyang, Hongbo Cheng, Xiao Zhai, Jing Yan, Yu Su

Qilu University of Technology, China.

12:05 A-5

Reducing the coercive field of rhombohedral NBT-based crystals by domain engineering  
Geng Huangfu, Haosu Luo, Yiping Guo  
Shanghai Jiaotong University, China.

13:30-15:50 Invited Session B, Chair: Wataru Sakamoto (Chubu University)

13:30 B-1

Growth and Characterization of  $\text{Ba}_3\text{TaGa}_3\text{Si}_2\text{O}_{14}$  Single Crystals  
H. Takeda, T. Hoshina, and T. Tsurumi  
Saitama University, Japan.

13:50 B-2

Effects of Al substitution on crystal structure and piezoelectric properties of  $\text{Ca}_3\text{NbGa}_3\text{Si}_2\text{O}_{14}$  and  $\text{Ca}_3\text{TaGa}_3\text{Si}_2\text{O}_{14}$  single crystals

Yuui Yokota, Yuji Ohashi, Takahiko Horiai, Akira Yoshikawa  
Tohoku University, Japan.

14:10 B-3

Simultaneously achieving giant piezoelectricity and record coercive field enhancement in relaxor-based ferroelectric crystals

Limei Zheng, Liya Yang, Gang Liu  
Shandong University, China.

14:30 B-4

Enhanced polarization property of PZT produced by press forming  
Muneyasu Suzuki, Harutaka Mekaru, Tetsuo Tsuchiya, Jun Akedo  
AIST, Japan.

14:50 B-5

High Piezoelectric Performance of Textured Relaxor-PT/PZT Ceramics  
Yan Yongke, Xu Zhuo, Priya Shashank  
Xi'an Jiaotong University, China.

15:10 B-6

A Review of Lead Perovskite Piezoelectric Single Crystals and Their Medical Transducers Application  
Yohachi (john) Yamashita, Tomoaki Karaki, and Horoshi Maiwa  
Toyama Prefectural University, Japan.

15:30 B-7

Domain Engineering Effect of Alternating Current Poling with Different Frequency on PMN-PT Single Crystals  
Chengtao Luo, Haotian Wan, Chang Liu, Wei-Yi Chang, Yohachi Yamashita, and Xiaoning Jiang  
Shanghai Jiaotong University, China.

16:00-18:20 Invited Session C, Chair: Dou Zhang (Central South University)

16:00 C-1

Tuning of polar domain boundaries in non-polar perovskite

Nan Zhang, Zheyi An, Hiroko Yokota, Marek Paściak, Wei Ren, Zuo-Guang Ye  
Xi'an Jiaotong University, China.

16:20 C-2

Microstructure Design and Exotic Electrostrain Response in Layer Structured Perovskite Ferroelectric Ceramics

Xiang He, Zhiguo Yi  
Shanghai Institute of Ceramics, China.

16:40 C-3

Synergic Modulation of the Multi-scale Structures on the Energy Storage Properties of Silver Niobate-Based Ceramics

J. Wang, XH. Fan, Y. Rao, L. Zhao, KJ. Zhu  
Nanjing University of Aeronautics and Astronautics, China.

17:00 C-4

Atomic-Scale Studies of PbZrO<sub>3</sub>-based Antiferroelectric Ceramics

Zhengqian Fu, Xuefeng Chen, Zhenqin Li, Tengfei Hu, Ziyi Yu, Linlin Zhang, Shujun Zhang, Genshui Wang, Xianlin Dong, Fangfang Xu  
Shanghai Institute of Ceramics, China.

17:20 C-5

Ferroelectric Materials and Devices for Intelligent Computing

Xiao Yu, Yue Peng, Jiuren Zhou, Genquan Han  
Research Center for Intelligent Chips and Device, China.

17:40 C-6

Excellent pyroelectric properties of relaxor-based ferroelectric single crystals and thin films for infrared detection

Yanxue Tang, Haosu Luo  
Shanghai Normal University, China.

18:00 C-7

Heterostructural magnetoelectric composites and application in magnetic field and current sensing

Jie Jiao, Rui Chen, Hanzhou Wu, Yaojin Wang, Haosu Luo, Li Lu, Wenning Di  
Shanghai Institute of Ceramics, China.

Dec. 9, 2022 (Japan/Korea Standard Time)

9:00-11:00 Invited Session D, Chair: Jun Akedo, (AIST)

9:00 D-1

High Curie temperature BiFeO<sub>3</sub>-BaTiO<sub>3</sub> lead-free piezoelectric ceramics: One-step preparation

Yu-Cheng Tang, Ai-Zhen Song, Yang Yin, He-Zhang Li, Bo-Ping Zhang  
University of Science and Technology Beijing, China.

9:20 D-2

Bismuth Ferrite Based Lead-Free Piezoelectric ceramics

Dawei Wang

Harbin Institute of Technology, China.

9:40 D-3

Mechanism of Material Hardening on  $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based Lead-free Piezoelectric Ceramics by Quenching Treatment

Takeru Tayama, Yuka Takagi, and Hajime Nagata

Tokyo University of Science, Japan.

10:00 D-4

Studies of Domain Structure in  $(\text{K},\text{Na})\text{NbO}_3$ -based Ceramics with Acid-Etching

Zhang Jialiang

Shandong University, China.

10:20 D-5

Effect of  $\text{Li}_2\text{CO}_3$  and  $\text{MnCO}_3$  Addition on Properties of  $(\text{Ba},\text{Ca})(\text{Ti},\text{Sn})\text{O}_3$  Piezoelectric Ceramics Sintered Under Controlled Low Oxygen Partial Pressure

K. Uematsu, W. Sakamoto

Chubu University, Japan.

10:40 D-6

Investigations of multi-scale regulation and in-situ characterization of high temperature piezoelectric ceramics

Zhiyong Zhou

Shanghai Institute of Ceramics, China.

11:10-12:40 Poster Session, P-01—P-31

13:30-15:50 Invited Session E, Chair: Eisuke Tokumitsu (JAIST)

13:30 E-1

Enhanced energy storage ceramic capacitors utilizing ferrorestorable polarization

Yuji Noguchi, and Hiroki Matsuo

Kumamoto University, Japan.

13:50 E-2

High performance  $\text{BaTiO}_3$ -based dielectric materials for capacitor applications

Cheng Chen, Hua Hao, Xin Lai, Appiah Millicent, Zhonghua Yao, Minghe Cao, Hanxing Liu  
Wuhan University of Technology, China.

14:10 E-3

Origin of High-Performance Energy Conversion in  $\text{AgNbO}_3$  Based Ceramics: Structure Evidences

Zhigao Hu, Anyang Cui, Kai Dai, Kai Jiang, and Junhao Chu

East China Normal University, China.

14:30 E-4

Growth of Metal-free Perovskite-type Ferroelectric Crystals and Their Ferroelectric Properties

S. Ueno, S. Ando, T. Moriyama, T. Unno, I. Fujii, S. Kawachi, J. Yamaura, S. Wada  
University of Yamanashi, Japan.

14:50 E-5

Effect of Reaction Accelerator on Single Crystal Barium Titanate Fine Particle Synthesis  
Masaki YAMAGUCHI, Atsushi SAITO, Misa YAMASAKI, Takashi YAMAMOTO  
Shibaura Institute of Technology, Japan.

15:10 E-6

Ferroelectric and piezoelectric properties in simple binary compounds  
Wei Ren  
Shanghai University, China.

15:30 E-7

Angle-resolved polarized Raman mapping on a compositionally graded  $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$   
S. Tsukada, Y. Fujii, A. Kanagawa, Y. Akishige, and K. Ohwada  
Shimane University, Japan.

16:00-18:40 Invited Session F, Chair: Masaki Yamaguchi (Shibaura Institute of Technology)

16:00 F-1

Flexible Lead-free Piezoelectric Arrays for High-Efficiency Wireless Ultrasonic Energy  
Transfer and Communication  
Laiming Jiang, Jiagang Wu, Jianguo Zhu  
Sichuan University, China.

16:20 F-2

RTIC phenomenon on AD process and its application to dielectric / ferroelectric thick films  
Jun AKEDO  
National Institute of Advanced Industrial Science & Technology (AIST), Japan

16:40 F-3

Ferroelectric gate thin films transistors with Y-doped Hf-Zr-O gate insulator and In-Sn-O  
channel  
E. Tokumitsu, Y. Kubota, Mohit, K. Sasaki  
Japan Advanced Institute of Science and Technology, Japan.

17:00 F-4

Fabrication and characterization of La-doped  $\text{HfO}_2$  ferroelectric films on  $\text{SrTiO}_3$  single  
crystal substrates  
Badari Narayana Rao, Hiroko Yokota  
Chiba University, Japan.

17:20 F-5

Energy-storage performance of antiferroelectric Pb(Zr,Hf)O<sub>3</sub> films fabricated by sol-gel spin coating

J. Song, S. Kada, Y. Iwamoto, T. Iijima, and S. Okamura  
Tokyo University of Science, Japan.

17:40 F-6

Low temperature deposition of BiFeO<sub>3</sub> films on base metal foils for piezoelectric applications

Jing Yan, Jun Ouyang, Isaku Kanno  
Qilu Normal University, China.

18:00 F-7

Extraordinarily large domain switching contribution in epitaxial (K, Na)NbO<sub>3</sub> films  
Xueyou Yuan, Kazuki Okamoto, Mitsuki Kawano, Masahito Yoshino, Takanori Nagasaki,  
Yasuhiko Imai, Osami Sakata, Tomoaki Yamada  
Nagoya University, Japan.

18:20 F-8

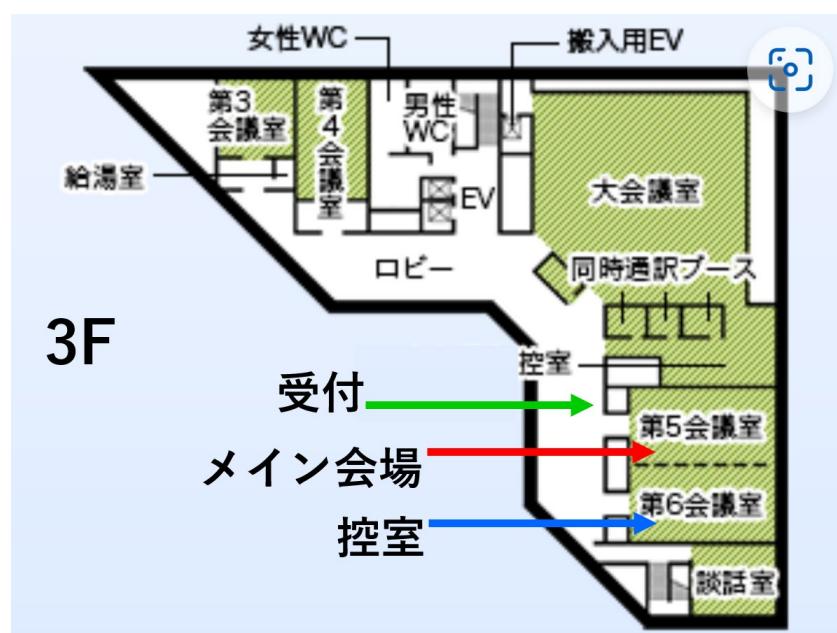
Intrinsic properties of domain walls of BiFeO<sub>3</sub>  
Lisha Liu, Jing-Feng Li, and Yaojin Wang  
Nanjing University of Science and Technology, China.

18:40 Closing remarks, Tomoaki Karaki (Zhiming Chen)



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〒920-0864 石川県金沢市高岡町 15 番 1 号 TEL : 076-223-1221 FAX : 076-223-1299



## Poster Session

11:10-12:40, Dec. 9, 2022 (Japan/Korea Standard Time)

P-01

Phase Transformation, Interfacial Coupling and Giant Charge-discharge Efficiency of BaTiO<sub>3</sub>@PVP/PVDF Nanocomposite Films

Yao Su, Wenyi Li, Yan Wang, Peimei Yuan, Zhao Bo, Dengwei Hu  
Baoji University of Arts and Sciences, China.

P-02

Crystal structure and microwave dielectric properties of Ba<sub>4</sub>(Sm<sub>1-x</sub>Ce<sub>x</sub>)<sub>9.33</sub>Ti<sub>18</sub>O<sub>54</sub> solid solutions

Yu Xie, Kongjun Zhu, Kang Yan, Jing Wang, Jinsong Liu  
Nanjing University of Aeronautics and Astronautics, China.

P-03

Ultrahigh energy harvesting properties in temperature insensitive eco-friendly high performance KNN-based textured ceramics

Jinfeng Lin, Jiwei Zhai  
Tongji University, China.

P-04

Characteristics of Chemical Bonding and Thermal Behavior of Atoms in Prototype Structure of Double Perovskite-type Antiferroelectric Oxides

Takayasu Shigemasu, Sangwook Kim, Chikako Moriyoshi, Guorong Li, Chul-Hong Park, and Yoshihiro Kuroiwa  
Hiroshima University, Japan.

P-05

Tunable vertical ferroelectricity and domain walls by interlayer sliding in β-ZrI<sub>2</sub>

Xiaonan Ma, Chang Liu, Sergey A. Nikolaev, and Wei Ren  
Shanghai University, China.

P-06

Crystal Structure of KNbO<sub>3</sub>/BaTiO<sub>3</sub> Core-Shell Nanocomposite Particles Studied by Synchrotron Radiation X-ray Diffraction

Shao Mingyang, Kaede Furuta, Sangwook Kim, Ichiro Fujii, Shintaro Ueno, Satoshi Wada, and Yoshihiro Kuroiwa  
Hiroshima University, Japan.

P-07

Brillouin Scattering Study of Ferroelastic Phase Transition of Lead Phosphate Single Crystal

Adil Emin, Anwar Hushur, and Seiji Kojima  
Lanzhou University, China.

P-08

Structural evolution and electrical properties of BFO-BT based high temperature lead-free piezoelectric ceramics

X. Ai, J. Yang, K. Yan, K. Zhu

Nanjing University of Aeronautics and Astronautics, China.

P-09

Activation of lead-free (Na,K)NbO<sub>3</sub> piezoceramics using pulsed electric field

Takumi Nozaki, Alexander Martin, Ryota Kobayashi, Tadachika Nakayama, Ken-ichi Kakimoto

Nagoya Institute of Technology, Japan.

P-10

Realization of enhanced strain responses in lead-free (Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>-based ferroelectric thin films by active domain motions

Zhe Wang, Jinyan Zhao, Gang Niu, Wei Ren, Nan Zhang, Kun Zheng, Yi Quan, Henghui Cai, Xin Li, Genshui Wang

Xi'an Jiaotong University, China.

P-11

Preparation of high temperature resistant barium titanate/polyimide flexible nanocomposite energy storage films

Peimei Yuan, Ruixuan Xue, ChenLi Wu, Rong Ma, Dengwei Hu

P-12

Change of crystal and microscopic structures of Ba<sub>0.95</sub>Sr<sub>0.05</sub>TiO<sub>3</sub> ceramics prepared by the combination of reaction sintering and spark plasma sintering

A Fujisawa, D Fu

Shizuoka University, Japan.

P-13

Microstructure of AC poled ternary PIN-PMN-PT single crystal after high temperature annealing

Yu Xiang, YinQin Sun, Y. Yamashita, T. Karaki, and H. Maiwa

Shonan Institute of Technology, Japan.

P-14

Effects of sputtering conditions on the growth of AlScN thin films and its conduction mechanism

Kohei Miyaji, Norifumi, Fujimura, Takeshi Yoshimura

Osaka Metropolitan University, Japan.

P-15

High-Performance Neuromorphic Computing Based on Ferroelectric Synapses with Excellent Conductance Linearity and Symmetry

Shuting Yang, Limei Zheng, Le Zhao

Shandong University, China.

P-16

Low-temperature deposition of transparent Pb(Zr<sub>1-x</sub>Ti<sub>x</sub>)O<sub>3</sub> thin film on glass substrate with giant piezoelectric response

K. Yoshida, S. Sogen, H. Suzuki1, T. Arai, and D. Fu  
Shizuoka University, Japan.

P-17

Mechanomyography Using Piezoelectric Materials  
S. Sakoda, N. Fujimura and, T. Yoshimura  
Osaka Metropolitan University, Japan

P-18

Unique Gas Sensing Performance of Sol-gel Derived BiFeO<sub>3</sub> Nanoparticles  
Xiaojie Li, Jinrong Cheng, Jiaqiang Xu  
Shanghai University, China.

P-19

Ferroelectric and piezoelectric properties of c-axis oriented PbZr<sub>0.53</sub>Ti<sub>0.47</sub>O<sub>3</sub> thin film deposited on SUS substrate with large coefficient of thermal expansion  
Seiji Sogen, Kazuto Yoshida, Takashi Arai, Hisao Suzuki, Desheng Fu  
Shizuoka University, Japan.

P-20

Superior energy storage properties in NaNbO<sub>3</sub>-based ceramics via synergistically optimizing domain and band structures  
Weiwei Yang, Huarong Zeng, Guorong Li  
Shanghai Institute of Ceramics, China.

P-21

Extremely large strain response under low driving electric fields in lead-based textured piezoelectric ceramics  
Hongrui Jia, Zhen Li, Linghang Wang  
Xi'an Jiaotong University, China.

P-22

Experimental approach to residual hydrogen content in silicon substrates by proton beam writing  
Jun HIRADE and Masaki YAMAGUCHI  
Shibaura Institute of Technology, Japan.

P-23

Polarization Rotation Control Domain Dynamic Response Modulates Piezoelectric Properties of Lead-Free Thin Films  
Kun Zhu, Guanglong Ge, Jinfeng Lin, Hairui Bai, Cheng Shi, Guohui Li, Fei Yan, Liuxue Xu, Weiwei Yang, Huarong Zeng, Kunyu Zhao, Zhenyong Man, Feifei Wang, Bo Shen, Jiwei Zhai, Xujian Chou  
Tongji University, China.

P-24

High Energy Storage Performance and Large Electrocaloric Response in  $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3-\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$  Thin Films

Jin Qian, Jiwei Zhai, Zhenxiang Cheng  
Tongji University, China.

P-25

Enhanced stabilization of oxygen vacancies on the bipolar fatigue resistance of PNN-PZT-based ceramics

Ying Shi, Guorong Li, Liao Ying Zheng, Zhenyong Man, Xuezhang Ruan, Xue Shi  
Shanghai Institute of Ceramics, China.

P-26

Preparation of Tetragonal  $\text{BaTiO}_3$  by Molten Salt Synthesis Process

Fei Jing, Nina Dai, Weixing Zhao, Dengwei Hu  
Baoji University of Arts and Sciences, China.

P-27

Energy storage properties of antiferroelectric  $\text{PbZrO}_3$  thin films prepared by chemical solution deposition method

T. Nishimoto, S. Sougen, K. Yoshida, H. Suzuki, D. Fu  
Shizuoka University, Japan.

P-28

3D Printing of Piezoelectric Biological Scaffolds for Bone Tissue Engineering

Ruixuan Xue, Peimei Yuan, Liying Yu, Rong Ma, Dengwei Hu  
Baoji University of Arts and Sciences, China.

P-29

Flexible Piezoelectric Nanogenerators Based on Two-dimensional Barium Titanate Nanosheets and Polymer Polylactic acid

Bo Zhao, Yao Su, Songlin Yu, Han Yu, Dengwei Hu  
Baoji University of Arts and Sciences, China.

P-30

Energy storage of BT/PVP/PVDF nanocomposite films with multilayer structure

Nina Dai, Fei Jing, Peimei Yuan, Ruixuan Xue, Bo Zhao, Yao Su, Dengwei Hu  
Baoji University of Arts and Sciences, China.

P-31

Fabrication of  $(\text{Ba}, \text{Sr})\text{TiO}_3$  epitaxial thin films on mica substrate toward flexible electronics

Shicheng Peng, Sou Yasuhara, Takaaki Tsurumi, Takuya Hoshina  
Tokyo Institute of Technology, Japan.