High Performance MEMS Mirror Actuated by Sputtered Nb-Doped PZT Film
Naono, Takayuki (FUJIFILM Corporation), Hishinuma, Yoshikazu (FUJIFILM Corporation), Arakawa, Takami (FUJIFILM Corporation), Murakami, Nokki (FUJIFILM Corporation), Takahashi, Shuji (FUJIFILM Corporation), Fujii, Takamichi (FUJIFILM Corporation), Okawa, Tokui (FUJIFILM Corporation)
12:00:12:15 MoRISA.4

Design of Dual-Frequency Piezoelectric Micromachined Ultrasonic Transducers
Wu, Lixiang (Hengzhou Dianzi University), Chen, Xuyuan (University of Southeast Norway), Wang, Gaofeng (Hengzhou Dianzi University), Zhou, Qifa (University of Southern California)
12:15:12:30 MoRISA.5

Magnetoelectric PZT/TbFeCo Cantilever for Magnetic Field Sensing
Ngoc, N. T. (VNU, 144 Xuan Thuy Road, Cau Giay, Hanoi, Viet Nam), Agnus, Guillaume (C2N, CNRS-UMR 9001), Maroulain, Thomas (C2N, CNRS-UMR 9001, Université Paris-Saclay, Palaiseau, France), Matzen, Sylvia (Center for Nanoscience and Nanotechnology, University Paris Saclay), Aubert, Pascal (C2N, CNRS-UMR 9001, Université Paris-Saclay, Palaiseau, France), Giang, D.T.H. (VNU, 144 Xuan Thuy Road, Cau Giay, Hanoi, Viet Nam), Leconte, Philippe (C2N, CNRS-UMR 9001, Université Paris-Saclay, Palaiseau, France)
12:30:12:45 MoRISA.6

Biocompatible Piezoelectric Micromachined Ultrasonic Transducer Using Lead-Free Sputtered (K0.5, Na0.5)NbO3 Thin Films for Implanted Devices
Yeo, Hong Goo (Daegu Gyeongbuk Institute of Science and Technology (DGIST)), Shin, EunJung (DGIST), Yeon, Ara (Daegu Gyeongbuk Institute of Science and Technology (DGIST)), Ryu, Jungho (Yeungnam University), Choi, Hongsoo (Daegu Gyeongbuk Institute of Science and Technology (DGIST))
12:45:12:50 MoRISA.7

ISAF1-2D Ferro (Lecture Session)
Chair: Guennou, Mael (University of Luxembourg)
11:00:11:30 MoRISA.1

Unique Properties of 2D Ferroelectric Materials (I)
Wang, Junling (Nanyang Technological University)
11:30:11:45 MoRISA.2

Enhanced Piezoelectric Response in Size-Controlled (111)-Epitaxial Tetragonal Pb(Zr,0.5Ti0.5)O3 Nanorods
Yamada, Tomoaki (Nagoya University), Okamoto, Kazuki (Nagoya University), Sakata, Osami (National Institute for Materials Science), Yoshino, Masahito (Nagoya University), Nagasaki, Takano (Nagoya University)
11:45:12:00 MoRISA.3

Tuning Electronic Properties of Graphene Using Ferroelectric BaTiO3
Othmen, Zied (University), Antonella, Cavanna (University), Gemamer, Pascal (Laboratoire Structures, Proprietes Et Modelee Des Solides (LPS, CNRS))
12:00:12:15 MoRISA.4

Piezoelectric Properties of Heterogeneous Transition Metal Dichalcogenides Bilayers
Chung, Bongwook (Sungkyunkwan University), Rahman, Md Moheesur (Sungkyunkwan University), Park, Jaeyoung (Sungkyunkwan University), Lee, Jachan (Sungkyunkwan University)
12:15:12:30 MoRISA.5

Nonvolatile Memories with Graphene Ferroelectric Field-Effect Transistors: Up-Scaling and Practicality
Hassanpouramiri, Mortezap (Max Planck Institute for Polymer Research), Asadi, Kamal (Max Planck Institute for Polymer Research)
12:30:12:45 MoRISA.6

Optical Functionality of Ferroelectric Oxide Thin Films
Sando, Daniel (UNSW Sydney), Valfano, Nagarajan (University of New South Wales)

MoRISBC
ISAF2-(HF, Zr)-Based FE I (Lecture Session)
Chair: Funakubo, Hiroshi (Tokyo Institute of Technology)
11:00:11:30 MoRISBC.1

Electrode Deposition Effects on the Ferroelectric Performance of Hafnium Zirconium Oxide Films (I)
ikhlef, Jon (University of Virginia), Fields, Shelby (University of Virginia), Smith, Sean (Sandia National Laboratories), Henry, David (Sandia National Laboratories), Wolfley, Steven (Sandia National Laboratories), Brumbach, Michael (Sandia National Laboratories), Rodriguez, Mark (Sandia National Laboratories)
11:30:12:00 MoRISBC.2

Thermal-Electric Energy Harvesting Cycles Employing Si-Doped Hafnium Oxide (H02) Thin Films on Area-Enhanced Substrate (I)
Mart, Clemens (Fraunhofer IPMS), Czemohrsky, Malte (Fraunhofer IPMS), Pitzoid, Bjorn (Fraunhofer IPMS), Rudolph, Matthias (Fraunhofer IPMS), Kämpe, Thomas (Fraunhofer IPMS), Weinreich, Wanke (Fraunhofer IPMS)
12:00:12:15 MoRISBC.3

Impact of H02-Zr02 Layered Deposition on Electrical Properties of Hf0.52Zr0.48 Thin Films
Migita, Shinji (National Institute of Advanced Industrial Science and Technology), Ota, Hirofumi (National Institute of Advanced Industrial Science and Technology), Matsukawa, Takashi (AIST), Toriumi, Akira (The University of Tokyo)
12:15:12:30 MoRISBC.4

Key Factors for Macroscopic Polarization in H02-Based Thin Films
Schenk, Tony (LIST), Glinsek, Sebastjan (Luxembourg Institute of Science and Technology), Godard, Nicolas (Luxembourg Institute of Science and Technology), Delaloye, Emmanuel (Luxembourg Institute of Science and Technology)
12:30:12:45 MoRISBC.5

The Role of Nucleation in Solution-Deposited Hafnia and Zirconia Films
Schenk, Tony (LIST), Glinsek, Sebastjan (Luxembourg Institute of Science and Technology), Godard, Nicolas (Luxembourg Institute of Science and Technology), Delaloye, Emmanuel (Luxembourg Institute of Science and Technology)

MoRISNA
ICE-Defects/Transport I (Lecture Session)
Chair: Tsur, Yood (Technion IIT)
11:00:11:30 MoRISNA.1

Electro-Chemo-Mechanics in Substituted Ceria: Modifying Charge Carrier Concentration and Mobility (I)
Harrington, George (Kyushu University), Sun, Lixin (MIT), Kalav, Dmitri (Massachusetts Institute of Technology), Yildiz, Bilge (MIT), Sasaki, Kasunari (Kyushu University), Perry, Nicola (University of Illinois Urbana-Champaign), Tserkov, Harry (MIT)
11:30:12:00 MoRISNA.2

Understanding Concentration and Reaction of Point Defects in SrTiO3 and (La, Sr)FeO3-X Thin Films (I)
Feigl, Jürgen (TU Wien, Institute of Chemical Technologies and Analytics)
11:45:12:00 MoRISNA.3