

ISIF 2019 : Poster Presentations

Poster Board No.	Presenting Author	Paper Title
1	Eleanor Roake	Pyroelectric energy harvesting using low Curie temperature, lead-free ceramics
2	Hartmut W. Gundel	(100) oriented anti-ferroelectric PbZrO ₃ thin layer growth on polycrystalline alumina substrate for energy storage application
3	Cynthia Quinteros	Hafnia related materials for specific functions in neuron circuits
4	Fengyuan Zhang	Investigation of AFM Tip-Assisted Milling of Ferroelectric Thin Films
5	Clemens Mart	Local switching voltage variation in ferroelectric Si-doped HfO ₂
6	Jennifer Halpin	Magnetic ion doping of Aurivillius phase Bi ₅ Ti ₃ FeO ₁₅ and Bi ₆ Ti ₃ Fe ₂ O ₁₈ for developing improved multiferroic materials
7	Ji Soo Lim	Ultrafast collective oxygen-vacancy migration in Ca-doped BiFeO ₃
8	Zhongnan Xi	Nondestructive Readout Complementary Resistive Switches Based on Ferroelectric Tunnel Junctions
9	Mael Guennou	Antiferroelectric and ferroelectric properties of PbZrO ₃ and BiFeO ₃ -based sol-gel films
10	Lucjan Kozielski	Ferroelectricity and electromechanical coefficients in gadolinium doped Bi ₄ Ti ₃ O ₁₂ – BiFeO ₃ ceramics
11	Linhao Li	Mixed ionic-electronic conduction in K _{1/2} Bi _{1/2} TiO ₃
12	Philippe Tückmantel	PFM and SHG study of ferroelastic twin domain crossings in PbZr _{0.2} Ti _{0.8} O ₃
13	Jennifer Mackel	Topological defects in ferroics: Searching for skyrmions in magnetic thin films and ferroelectric single crystals
14	James McCartan	Electronic characterisation of focused ion beam fabricated ErMnO ₃ lamellae for nanoelectronic circuit elements
15	Soo-Yoon Hwang	STEM & TEM analysis of ferroelastic twin structures in epitaxial WO ₃ thin films
16	Matthew Colbear	Geometric magnetoresistance in lithium niobate conducting domain walls
17	Mujin You	Creation of electric vortex pairs by electric fields in a ferroelectric BiFeO ₃ thin film
18	Charlotte Cochard	Field-Induced Increases in the Electrostatic Potential in Copper-Chlorine Boracite: a New Opportunity in Negative Capacitance?
19	Ross Jordan	Thermal Transport in Nanostructured Magnetic Materials
20	Philippa Shepley	Multi-technique deposition system for thin film growth at Leeds
21	Affan Nadim Iqbal	Investigating the impact of Ca-doping on the structural and electronic properties in strained BiFeO ₃ .
22	Yaqi Li	Free-standing ferroelectric PbTiO ₃ /SrTiO ₃ superlattices
23	Kay C Erb	Symmetry guide to phase transitions with vectorlike order parameters
24	Bogdan Zhigulin	Thermal conductivity of ferroelastically twinned LaAlO ₃ at cryogenic temperatures
25	Brian Foley	Voltage Controlled Bistable Thermal Conductivity in Suspended Ferroelectric Thin Film Membranes
26	Dawei Wang	Bismuth Ferrite-Based Lead-Free Ceramics and Multilayers with Large Strain and Energy Density
27	Arjin Boonruang	Fabrication and characterization of randomised 1-3 composite for micro-US array for biomedical imaging
28	Stephen Jesse	Ferroionic states: coupling between surface electrochemical and bulk ferroelectric functionalities on the nanoscale
29	Sawsan Almohammed	Flexible diphenylalanine peptide nanotube nanogenerator for energy harvesting applications
30	Takanori Mimura	Thickness-dependent crystal structure of epitaxial ferroelectric 0.07YO _{1.5} -0.93HfO ₂ and HZO films
31	Jack O'Brien	Point-Contact Andreev Reflection from Zero-Moment Half-Metals for Spintronics Applications
32	Tim Butcher	Liquid-in-liquid Manipulation and Properties of Paramagnetic Ionic Solutions
33	Ross Smith	Giant spin Hall angle in single layers of Mn ₂ Ru _x Ga
34	Shubhadeep Bhattacharjee	Charge trapping MoS ₂ synaptic transistors as the building block for neuromorphic computing
35	David Edwards	Stress-Induced Variations of the Coercive Field and Switching Currents in Mixed Phase BiFeO ₃
36	Olivia Baxter	Ferroelectric Domain Wall Synaptic Memristors in Ion Sliced Lithium Niobate

37	Maria Graham	Voltage Controlled Bistable Thermal Conductivity in Suspended Ferroelectric Thin Film Membranes
38	Emrullah Kargin	Probing electrochemical processes at the solid-liquid interface with electrochemical force microscopy
39	Hossam Ibrahim	Cell viability and piezoelectricity of ferroelectric BiFeO ₃ thin films