

## Posters

Session Topic	Author	Title
Characterization/Reliability	Agren, P.	Reliability investigation of production thin-film PZT
	Österlund, Elmeri	Stability of Piezoelectric Al <sub>1-x</sub> Sc <sub>x</sub> N Thin Films
	Shimizu, Takao	Direct and qualitative characterization of the 90° domain switching under applying electric field in tetragonal Pb(Zr, Ti)O <sub>3</sub> film
	Tan, Goon	In-situ observation of crystallographic deformation of Pb(Zr,Ti)O <sub>3</sub> thin films by synchrotron x-ray diffraction
	Sivaramakrishnan, Mani	Determination of Transverse Piezoelectric Coefficient (d <sub>31</sub> ) of Thin Films from Large Signal Displacement Measurement of Membranes
	Devos, Arnaud	Elasticity and Adhesion Characterization of Thin-films using APiC technology
	Tabrizian, Roozbeh	A Nano-Acoustic Instrumentation for Morphological Spectroscopy of Atomic-Layered Ferroelectric Films
	Das, Debashish	Control of Mechanical and Ferroelectric Response of Freestanding PZT Films through Texture
	Yoshimura, Takeshi	Microscopic characterization of direct piezoelectric response
	Schmitz-Kempen, Thorsten	Unique 2µm Spot Size Double Beam Laser Interferometer for Piezoelectric Thin Film Characterization
	Akkopru-Akgun, Betul	Understanding the defect chemistry controlling DC resistance degradation in PZT films
	Fox, Austin	In-situ Piezoelectric Response Measurements of Lead-free, Bismuth-based, Piezoelectric Thin Films
	Cheng, Christopher	Nucleation Studies of In-situ Sputtered Lead Zirconate Titanate Thin Films

Device Technologies II (PZT)	Gjessing, Jo	High-frequency 2D PZT based micromirrors
	Niekiel, Florian	MEMS Microspeaker made from Piezoelectric Bending Actuators
	Kusano, Yuri	Maximum Linear Operating Range of PZT Piezoelectric Micromachined Ultrasonic Transducers
	Kobayashi, Hiroki	Low Temperature Crystallization of High-Performance Piezoelectric PZT Film For Piezo-MEMS Applications

Deposition of Materials - AlN	Tabrizian, Roozbeh	Extraction of Transverse Piezoelectric Coefficient of Scandium-Doped Aluminum-Nitride Film Using Waveguide-Based Resonators
	Mertin, Stefan	Sputtered Aluminium Scandium Nitride Thin Films with High Sc Content for Energy Harvesting Application
	Fichtner, Simon	AlScN for Piezoelectric MEMS: From Morphology to Model-Devices
	Goglia, Peter	Thin Film Etch Characterization by Ion Beam Technology

Device Technologies I (AlN)	Wang, Haoran	Design, Fabrication and Characterization of an AlN Piezoelectric Microspeaker
	Wang, Qi	Thickness-Optimized Piezoelectric Micromachined Ultrasonic Transducer Arrays
	Ding, Anli	The elastic constants of $\text{Al}_{0.86}\text{Sc}_{0.14}\text{N}$ thin films for surface acoustic wave devices

Modeling and Simulation	Aramaki, Masaaki	Nonlinear Effect in Piezoelectric MEMS Vibration Energy Harvesters at Large Amplitude
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Integration challenges of ferroelectrics devices	Dolgos, Michelle	Aqueous Deposition of Thin Film Potassium Sodium Niobate Using Simple Aqueous Precursors
	Won, Sungsik	Lead-free Piezoelectric Thin Films for MEMS-based Vibrational Energy Harvesters
	Strnad, Nick	Atomic Layer Deposition of Polycrystalline Tetragonal Phase $\text{PbTiO}_x$