



European Materials Research Society

# 2026 Spring Meeting

May 25 - 29  
Strasbourg Convention Centre

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## SYMPOSIUM C

Synthesis, processing and characterization of nanoscale multi functional oxide films X and 10th E-MRS & MRS-J bilateral symposium

Oral sessions : MADRID 2 - GROUND FLOOR

Poster sessions : ETOILE - FIRST FLOOR

*Symposium Organizers:*

Hiroaki NISHIKAWA, Kindai University, Japan

Mircea MODREANU, Tyndall National Institute - University College Cork, Ireland

Nobuyuki IWATA, College of Science & Technology, Nihon University, Japan

Tetsuya YAMAMOTO, Kochi University of Technology, Japan

Valentin CRACIUN, National Institute for Laser, Plasma and Radiation Physics and Extreme Light Infrastructure for Nuclear Physics, Roumania

Valérie DEMANGE, Chemical Sciences Institute of Rennes (ISCR) - CNRS, France

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Monday May 25

## C01 Advanced oxide materials for electronics 1

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08:30	806	Light Driven Oxide Thin Film Technologies for Advanced Materials and Circular Electronics <b>TSUCHIYA Tetsuo (Invited)</b>
09:00	3410	Analysing Oxide Thin Films using Scanning Probe Microscopy <b>KLASEN Alexander</b>
09:15	1108	Bulk-Structure-Dominated Mechanism for Hydrogen gas Sensing at High temperature in $\text{-V}_2\text{O}_5$ Film <b>KIM Hyeonyu</b>
09:30	2470	Time-resolved photoelectrochemical water splitting of oxide thin films and hybride electrodes <b>BEYERSDORF Sören</b>
09:45	2691	Rare earth vanadates shaped by substrate orientation and strain <b>BENEDIT CARDENAS Adrian</b>

Monday May 25

## C02 Advanced oxide materials for electronics 2

Chairperson(s): IWATA Nobuyuki

MODREANU Mircea

[View session abstracts](#)

10:30	213	Development of Solid-State Oxide Thermal Transistors <b>OHTA Hiromichi (Invited)</b>
11:00	989	Imprint Modulation in $\text{Bi}_2\text{FeCrO}_6$ Heterostructures: The Roles of Interface, Defects, and Growth Direction <b>HU Chenyue</b>
11:15	996	$\text{Cu}_2\text{O}$ Films Fabricated by Mist-Spin Spray Method Applicable for Flexible Glucose Sensor <b>MATSUSHITA Nobuhiro</b>
11:30	1164	Realizing a sharp metal to insulator transition in $\text{Nd}_{0.7}\text{Y}_{0.3}\text{NiO}_3$ thin films at room temperature <b>SAHOO Sophia</b>
11:45	1165	Emergent Ferroelectric-Memristive Coupling in Epitaxial $\text{BaTiO}_3$ - and $\text{Pb}(\text{Zr,Ti})\text{O}_3$ -Based Heterostructures Grown by PLD on Silicon and $\text{SrTiO}_3$ Substrates <b>RENGIFO Miguel</b>

Monday May 25

## C03 Oxide Memristors

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14:30	302	Combining Threshold and Resistive Switching Oxide Memristors for Neuron-Synapse Integration in Spiking Neural Networks <b>CHEN Jen-Sue (Invited)</b>
15:00	1225	Control of morphology and ferroelectric behaviour in $\text{PbZr}_{0.48}\text{Ti}_{0.52}\text{O}_3$ thin films via lead stoichiometry during Pulsed Laser Deposition <b>COOLMAN Tom</b>
15:15	1267	Superconducting $\text{La}_3\text{Ni}_2\text{O}_7$ - $\delta$ thin films: a structural study <b>FLAVENOT Mathieu</b>
15:30	1562	Nanoscale strain landscapes in ferroelectric $\text{BaTiO}_3$ -based heterostructures <b>CHASLIN Edgar</b>
15:45	619	$\text{Bi}_{12}\text{GaO}_{(20\pm d)}$ : A bi-functional Material for Nanoscale Thermometry and Electroluminescence <b>SINGH Nistha</b>

Monday May 25

## C04 New electronic applications for oxide materials

Chairperson(s): DEMANGE Valerie

TSUCHIYA Tetsuo

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16:30	2340	Ultra-fast hydrothermal synthesis of $\text{CuO}$ thin films in an open system: a low-cost and environmentally friendly approach for electronic applications <b>OZGA Monika</b>
16:45	301	Control of carrier concentrations and engineering of the optical bandgap in Sn-doped $\text{In}_2\text{O}_3$ films through the post-irradiation of negatively charged oxygen ions <b>YAMAMOTO Tetsuya</b>
17:00	2132	Atomic-scale surface and interface modulations in infinite-layer nickelate films <b>YANG Chao</b>
17:30	2663	Piezoelectric properties enhancement by continuous Yttrium doping in lead-free $(\text{Ba,Ca})(\text{Ti,Zr})\text{O}_3$ thin films libraries <b>KUENTZ Hugo</b>
17:45	2666	From Thin-Film Growth to Device Integration: The Sacrificial Layer Approach for Solid Oxide Technologies <b>ANZENGRUBER Marlene</b>
18:00	2734	Atomic Layer Deposition of Bismuth Oxyselenide <b>VAZQUEZ Jorge</b>

Tuesday May 26

## C05 Wide Bandgap Oxide Semiconductors and Mist CVD Processing

Chairperson(s): NONAME

OHTA Hiromichi

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- 08:30 972 Thin films of ultrawide band gap semiconductors based on rutile-type oxides via mist chemical vapor deposition  
**TANAKA Katsuhisa (Invited)**
- 09:00 2026 Impact of Mist Supply Method on Growth of Rocksalt-Structured MgZnO Films by Mist CVD Method  
**TANAKA Kyosuke**
- 09:15 2301 Toward Complementary Oxide Electronics Using Solution-Processed TeO<sub>2</sub> PMOS  
**ADAMOPOULOS George**
- 09:30 2421 Towards transparent TeO<sub>2</sub> – based coating using modified Pechini method as a versatile process for integrated optical components  
**VERGNAUD Florestan**
- 09:45 3021 Influence of Quartz-free Growth Environment on Unintentional Si Incorporation in MgO Homoepitaxy by Hot-wall-type Mist CVD  
**OGAWA Kotaro**

Tuesday May 26

## C06 Precision Growth and Atomic Layer Deposition (ALD) Techniques

Chairperson(s): TANAKA Katsuhisa

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- 10:30 2518 Atomic layer deposition and etching of ZnO and laminate doped ZnO:Al and ZnO:Hf  
**POVEY Ian (Invited)**
- 11:00 1622 Ferroelectric solution deposited oxide layers for flexible electronic systems  
**CALZADA Maria Lourdes**
- 11:15 905 Influence of doping and substrate type on surface morphology, local thermal and electrical properties of zinc oxide thin films  
**KAZMIERCZAK-BALATA Anna**
- 11:30 2277 Spatial Atomic Layer Deposition (SALD): A Green, High-Throughput Platform for Precision Engineering of Multi-Functional Oxide Films  
**MUÑOZ-ROJAS David**
- 11:45 2779 In-situ and real time measurement of laser induced damage threshold of metal oxide thin films used for fs-laser mirrors  
**CRACIUN Valentin**

Tuesday May 26

## C07 Functional Ferroelectrics and Transparent Conducting Oxides

[View session abstracts](#)

- 13:45 2856 Impact of dopants, oxygen vacancies and interfaces on ferroelectric HfO<sub>2</sub> epitaxial films  
**SANCHEZ Florencio**
- 14:00 90 In situ study of HfO<sub>x</sub> atomic layer deposition on (Ag,Cu)(In,Ga)Se<sub>2</sub> solar cell absorbers: impact of absorber bulk composition and surface treatment on HfO<sub>x</sub> growth  
**MARTIN Natalia M.**
- 14:15 1965 High dielectric tunability and ferroelectric switching on combinatorial PLD-grown epitaxial lead-free (Ba,Ca)(Ti,Zr)O<sub>3</sub> thin films  
**DEY Koushik**
- 14:30 1317 High-Transparency SrNbO<sub>3</sub> Thin Films: A Nanosheet-Templated Approach to Indium-Free Transparent Conducting Oxides  
**SAADE Anthony**
- 14:45 1966 Quantifying the thermal boundary conductance of free-standing oxide membranes  
**ALVAREZ-MARTINEZ Victor**
- 15:00 2780 Universal constraints on resistive transport across disordered and functional thin-film materials  
**LISCIO Andrea**
- 15:15 2141 Correlations Among Structural, Transport and Electronic Properties of ITO Layers Annealed in Various Gas Atmospheres  
**DOMANOWSKA Alina**
- 15:30 1978 Accelerating In-Zn-O thin film development for transparent conductive Cu diffusion barriers  
**FRICK Stefanie**
- 15:45 1864 Optimizing atmospheric-pressure spatial atomic layer deposition SnO<sub>x</sub> for enhanced perovskite crystallization and performance  
**MUSSELMAN Kevin**

Tuesday May 26

## CPO2 Poster session 2

[View session abstracts](#)

- 16:30 01\_1105 Thickness-Driven Structural Phase Transition in SrSnO<sub>3</sub> Films Grown on SrTiO<sub>3</sub> Substrates by Off-Axis RF Magnetron Sputtering  
**KIM Minchan**
- 16:30 02\_1259 ALD-Optimized Al<sub>2</sub>O<sub>3</sub> Dielectrics on 2D MoS<sub>2</sub>: Enabling Next-Generation Electronics and Biosensing Platforms  
**TIWARI Ananya**
- 16:30 03\_1360 Crystal Growth of LaFeO<sub>3</sub>/CaFeO<sub>3</sub> Multilayer Films and Their Electrical and Magnetic Properties  
**IWATA Nobuyuki**
- 16:30 04\_137 Dirac-Source Engineered Graphene/a-IGZO Hybrid Transistors with Steep Subthreshold Swing  
**RYU Hyojoon**
- 16:30 05\_1423 Spectroscopic Ellipsometry Study of TiO<sub>2</sub> Thin Films Grown by Thermal ALD Using TTIP and H<sub>2</sub>O  
**TURDALIEV Temur**

16:30 06\_1433 Engineering Interface Polarizability via Halide-Functionalized Self-Assembled Monolayers for NiO-Based QLEDs with Record-High Efficiency  
**PARK Hyun Min**

16:30 07\_1439 Temperature-Driven Morphological Evolution in Epitaxial VO<sub>2</sub> Films  
**PARK Junseo**

16:30 08\_1471 Oxygen Vacancy and Architecture Controlled Mechanical Response in Vertically Aligned  $\alpha$ -MoO<sub>3</sub> Nanorod Thin Film.  
**SINGH Shivam**

16:30 09\_1544 Spin functionality of geometry-dependent metal-oxide interfaces prepared by alternative methods  
**DOBRIN Adina Diana**

16:30 10\_1567 Low-cost lateral p-NiO / n-Ga<sub>2</sub>O<sub>3</sub> heterojunction diodes for power and ultraviolet optoelectronic applications  
**CHO Youngkwan**

16:30 11\_1742 Structural and chemical properties map in epitaxial Co<sub>x</sub>Mn<sub>3-x</sub>O<sub>4</sub> thin films as a function of stoichiometry  
**BOBILLE-VAUCHER Katy-Lan**

16:30 12\_1906 Elimination of HMTA in the Chemical Bath Deposition of ZnO Nanowires  
**APPERT Estelle**

16:30 13\_2005 Low-power consumption memory and detectors based on amorphous Ga<sub>2</sub>O<sub>3</sub> photosensitive dielectric  
**Zengxia Mei**

16:30 15\_2036 Enhanced UV-Visible Light-Matter Interactions in ZnO/Ag Inverted-Nanocone Hybrid Systems  
**KIM Nahyun**

16:30 16\_2038 Analysis of  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> Inverter Performance according to Gate Dielectric and Recess Depth Modulation via TCAD Simulation  
**YUNYEONG Choi**

16:30 17\_2050 In-Situ Plasma-Assisted ALD for High-Performance IGZO Electronics  
**KIM Tae Yun**

16:30 18\_2128 Heterostructures of Solution-Processed ZnO and MoS<sub>2</sub>: Interface and Optical Modulation  
**Lim Seoyoung**

16:30 19\_2155 Development of a process for transferring large-area perovskite epitaxial thin films onto flexible plastic substrates.  
**NISHIKAWA Hiroaki**

16:30 20\_2293 Indium-Composition-Dependent Defect-Mediated Instability in Amorphous IGZO TFTs under Self-Heating Stress  
**SON Donghwi**

16:30 21\_2298 Thermodynamic Analysis of Defect Equilibria in Sn-Doped Gallium Oxide  
**PETRIASHVILI Aza**

16:30 22\_2318 Solution-Processed In<sub>2</sub>O<sub>3</sub>:Si Thin-Film Transistors with Enhanced Bias-Stress Stability  
**ADAMOPOULOS George**

16:30 24\_2341 Composite High-k Gate Dielectrics for Solution-Processed Oxide TFTs  
**ADAMOPOULOS George**

16:30 25\_2352 Composite Nb-Al-O Gate Dielectrics for Solution-Processed ZnO Thin-Film Transistors  
**ADAMOPOULOS George**

16:30 26\_2354 Characterization of Energy Band Gap of Gas-Annealed ITO Thin Films: A Comparison of Optical and Surface Photovoltage Methods  
**MICHALEWICZ Anna**

16:30 27\_236 Investigating Optoelectronic Semiconductor Materials using 4D Scanning Transmission Electron Microscopy (4D-STEM)  
**CHAI Tiantian**

16:30 28\_2404 Elucidation of the Quantum Mechanical Bonding Mechanism of tellurium oxide system  
**LEE Chang Min**

16:30 29\_2458 Characterization of the transformation from precursor to TeO<sub>2</sub>-based glass by liquid phase synthesis  
**JOUIN Jenny**

16:30 30\_2505 Back-Gate Biasing of SA-TG Coplanar IGZO TFTs for AMOLED Driving: Large Subthreshold Swing and Improved Electrical Stability  
**OH Chae Eun**

16:30 32\_2687 Interfacial tuning of magnetic anisotropy for low-power spintronic memory devices  
**KHANDELWAL Astha**

16:30 33\_2693 Interfacial tuning of magnetic anisotropy for low-power spintronic memory devices  
**KHANDELWAL Astha**

16:30 34\_281 Evolution of Spin Waves with Coherent Phonon Excitation in Magnetic Oxides  
**S S Jayakrishnan**

16:30 35\_2973 Epitaxial growth of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> on arbitrary substrates  
**RUITERS Jelle**

16:30 36\_2996 Advanced strategies for tailoring transparency window in Correlated Transparent Conductors  
**CHEIKH Aimane**

16:30 37\_3002 Tailoring structural and optical properties of Ta<sub>2</sub>O<sub>5</sub> thin films via radio frequency magnetron sputtering for high-refractive index transparent materials  
**CHEIKH Aimane**

16:30 39\_3093 Homoepitaxial Growth of Titanium Dioxide Using Plasma-Enhanced Atomic Layer Deposition for Semiconductor Devices Applications  
**NILESH Nilesh**

16:30 40\_3094 Orbital Hybridization Induces Giant Cubic Rashba Effect at Cu/WO<sub>3</sub> Interface  
**HOSSAIN Md Aktar**

16:30 41\_3184 Thermochromism in VO<sub>2</sub> and V<sub>2</sub>O<sub>3</sub> across Metal-Insulator Phase Transition in Green's Function Formalism  
**GHILETCHII Gheorghe**

16:30 42\_3226 Tuning the p-type conductivity of Ni<sub>1-x</sub>O thin films grown by reactive RF sputtering toward vertical Ni<sub>1-x</sub>O/ $\beta$ -Ga<sub>2</sub>O<sub>3</sub> heterojunction power devices  
**RIBAUT Thomas**

16:30 43\_3256 Growth of high-quality VO<sub>2</sub> thin films using V<sub>2</sub>O<sub>5</sub> target: influence of sputtering power and annealing conditions  
**DIVOUX Nicolas**

16:30 44\_3275 Structural and interfacial characteristics of BiFeO<sub>3</sub> thin films and BiFeO<sub>3</sub>/SrTiO<sub>3</sub> multilayers  
**GHITIU Ioan-Mihail**

16:30 45\_3328 Impact of the high oxygen deficiency on the optoelectronic properties of black zinc oxide thin films  
**NISTOR Magdalena**

16:30	46_389	Temperature-driven tailoring of thin bismuth oxide films: morphology and surface electronic properties for nanoelectronic applications <b>JUSZCZYK Justyna</b>
16:30	47_427	Fuel cell performance using nanosheet high proton conductors <b>SAKUDA Yuichi</b>
16:30	48_485	Impact of RF sputtering power and Cu interlayer thickness on the optoelectrical performance of AZO/Cu/AZO multilayer transparent electrodes <b>DJEFFAL Faycal</b>
16:30	49_508	?Non-Contact Optical Defect Analysis of Oxide Semiconductor Indium-Gallium Oxide Thin-Film Transistors <b>PARK Jaeseong</b>
16:30	50_572	Performance Enhancement of Quasi-Vertical GaN MIS Schottky Barrier Diodes via Atomic-Layer-Deposited Al <sub>2</sub> O <sub>3</sub> Dielectric Layers <b>CHAO Der-Sheng</b>
16:30	51_577	Defect-Induced Abnormal Operation in InGaZnO Oxide Thin-Film Transistors using Nonlinear Optics <b>JIHYUK Yang</b>
16:30	52_684	Impact of temperature and film thickness on $\alpha$ - and $\beta$ - phase formation in Ga <sub>2</sub> O <sub>3</sub> thin films grown on $\alpha$ -plane sapphire substrate <b>BUTANOV Edgars</b>
16:30	53_690	Si-Ga <sub>2</sub> O <sub>3</sub> /p-GaN epitaxial heterostructure based self-powered and visible-blind UV photodetectors with fast and electrically tuneable response time <b>BISWAS Ajoy</b>
16:30	54_750	Directional magnetotransport across the ferromagnetic transition in SrRuO <sub>3</sub> <b>SMRITI Smriti</b>
16:30	55_907	Synthesis and characterization of transparent conductive oxides and their application as electrodes in Ta <sub>3</sub> N <sub>5</sub> photocatalytic devices <b>LØVOLL Marte</b>
16:30	56_908	Growth Behavior of Alternative ZnO Precursors for Multicomponent ALD of ZnFe <sub>2</sub> O <sub>4</sub> <b>HØILAND Harald</b>

Wednesday May 27

### C09 Low-Dimensional Materials and Oxide Integration

[View session abstracts](#)

08:30	1367	Oxidation engineering of 2D materials for electronic applications <b>YAMAMOTO Mahito (Invited)</b>
09:00	1326	A novel metal-organic chemical vapor deposition route to alkaline-earth ferrite thin films on planar and 3D substrates for photo- and electro-catalytic applications <b>SALAMONE Laura</b>
09:15	852	Thermal-Stress Design in Quasi-2D Semiconductors via Anisotropic Thermal Expansion Engineering <b>LEE Yu-Hsien</b>
09:30	2393	Phonon picoscopy of 2D silica on graphene <b>GUEDJ Cyril</b>
09:45	2513	Ferroelectric Oxide-Two-Dimensional Semiconductor Integration for Energy-Efficient Memory Devices <b>HUSSAIN Sabir</b>

### Wednesday May 27 C10 Thermal Management and Interface Engineering in Devices

Chairperson(s): NONAME

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10:30	2231	Nanoscale thermal conduction for advanced processing of thin films: A perspective from computations <b>YOSHIYA Masato (Invited)</b>
11:00	2328	Defect and Interface Engineering of Ag-Decorated WO <sub>3</sub> -TiO <sub>2</sub> Heterostructures for Enhanced Photocatalysis <b>AYENI Olugbenga</b>
11:15	3180	Probing and Mitigating the Gate Dielectric Defect States in GeSn MOS System for Quantum Electronic Applications <b>LAKSHMI NARAYANA Chandrashekar</b>
11:30	3131	Metal- plasma interaction for patterning of Mg-Based Materials at Sub-100 nm for Memory and Electronic Device Applications <b>GHRBANI Leila</b>
11:45	3062	Architectural Engineering of Modular Hollow Spherical Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> for Decoupled Thermoelectric Transport <b>GUNES Murat</b>

Wednesday May 27

### C11 Characterization of Defects and Electronic Structures in Oxides

Chairperson(s): YOSHIYA Masato

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13:45	2389	Similarities and Differences in Optical Properties of $\alpha$ - and $\beta$ -phase Ga <sub>2</sub> O <sub>3</sub> <b>ONUMA Takeyoshi (Invited)</b>
14:15	1007	The CHIPS JU JASMINE Initiative: Forging a Resilient EU-Japan Semiconductor Alliance <b>MODREANU Mircea</b>
14:30	1813	Low frequency noise characterization of as-fabricated and proton irradiated Ga <sub>2</sub> O <sub>3</sub> -based Schottky and heterojunction p-n diodes <b>URAL Ant</b>
14:45	1205	Investigation of the Interface Structure of FeSe/SrTiO <sub>3</sub> Superconductor <b>CHATTERJEE Arindom</b>
15:00	1324	Link between thermal and optical ionization energies of electron traps in oxide films <b>SHLUGER Alexander</b>
15:15	1549	Study of Sr <sub>2</sub> V <sub>2</sub> O <sub>7</sub> luminescence phase formation under annealing through correlative Cathodoluminescence / Raman spectroscopy study. <b>SÉNICOURT Nicolas</b>
15:30	1751	Strain effects in Epitaxial PMN-PT Relaxor Thin Films <b>MELHEM Amani</b>
15:45	2741	Manufacturing of stoichiometric Niobium oxide thin-films by plasma emission controlled reactive physical vapour deposition <b>KOLKS Niklas</b>

Thursday May 28

## C12 Advanced Spectroscopic Metrology and Analytical Methods

Chairperson(s): CRACIUN Valentin

NONAME

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08:30	3213	Characterizing surface contamination of optical glass via calibration-free laser-induced breakdown spectroscopy <b>HERMANN Jörg (Invited)</b>
09:00	858	Rietveld analysis in rare-earth doped ZnO thin films <b>ROMANITAN Cosmin</b>
09:15	1043	New Concepts and Current Applications of Imaging Spectroscopic Ellipsometry (ISE) in the Microscopic Characterization of Oxide Nanofilms <b>THIESEN Peter H.</b>
09:30	1617	Temperature-dependent Raman spectroscopy as a quantitative probe of hysteresis and microstructure in vanadium dioxide thin films <b>TABBAL Malek</b>
09:45	3006	Direct integration of PZT thin film on Si substrate for MEMS bolometers <b>RAJAGOPAL Rajesh Kumar</b>

Thursday May 28

## C13 Memory Devices and Multi-ferroic Materials

Chairperson(s): HERMANN Jörg

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10:30	3096	A Terahertz Chemical Microscope: An Emerging Metrology for Materials Science and Biological Applications <b>KIWA Toshihiko (Invited)</b>
11:00	3172	X-ray Photoelectron Spectroscopy Study on Copper Growth by ALD on High-Conductivity Al-Doped ZnO <b>IGLESIAS JAIME Alejandro Carlos</b>
11:15	1301	Tunable multiferroics: CoFe <sub>1-x</sub> O <sub>x</sub> /N: BaTiO <sub>3</sub> as a case study <b>ZANDER Antoine</b>
11:30	454	Tailoring Carrier Transport in Crystalline Tungsten Oxide Thin Films by Controlling Oxygen Partial Pressure <b>SANJAY Sooraj</b>
11:45	1144	Forming-Free Bipolar RRAM Based on W/V/Nb/Mo/Ta High-Entropy Oxides Exhibiting an Ultrawide Memory Window and Superior Endurance <b>WU Tsung-Yen</b>

Thursday May 28

## C14 High-Entropy Oxides and Complex Heterostructures

[View session abstracts](#)

13:45	2936	Electronic and Structural Phase Change Engineering in Non-Critical Oxides for Next-Generation Technologies <b>LOSURDO Maria (Invited)</b>
14:15	3046	The oxygen annealing effect on tailoring the p-type conductivity of the UWBG -Ga <sub>2</sub> O <sub>3</sub> thin films <b>MOHAMED Hagar</b>
14:30	1579	Study on the Deposition Chemistry for Ternary Oxides Using $\beta$ -diketonate Ligands <b>LIU Ji</b>
14:45	1801	Exploring Entropy-Stabilized Pyrochlore Oxides: Epitaxial Thin-Film Approach Toward Advanced Capacitor Materials <b>ALANTHATTIL Ayana</b>
15:00	2220	Entropy control for improved photocatalytic response in complex oxynitride systems <b>IRIMICIUC Stefan-Andrei</b>
15:15	2225	Impact of AlInP(100) Surface Preparation and ALD Chemistry on TiO <sub>2</sub> /III-V Interfaces <b>PASZUK Agnieszka</b>
15:30	1479	Effects of Pulsed and Continuous Heating Modes on TiO <sub>2</sub> Film Growth by ALD <b>ARNOULD DALLET Galaad</b>
15:45	3266	Synthesis of single-phase spinel-type CrMnFeCoNi oxide thin films <b>VATAVU Sergiu</b>

Thursday May 28

## C15 Emerging Applications: Photovoltaics, Memristors, and Microscopy

[View session abstracts](#)

16:30	2568	p-type silicon heterojunction solar cell using MoO <sub>3-x</sub> as an electrons selective contact <b>DURAND Olivier (Invited)</b>
17:00	1705	Correlated metal LaNiO <sub>3</sub> as a p-type transparent conducting coating <b>BENIWAL Shivang</b>
17:15	2877	Ultra-low-density ZnO films synthesized by microwave discharge as targets to enhance fs-laser-plasma coupling <b>CRACIUN Valentin</b>
17:30	235	Investigating Optoelectronic Semiconductor Materials using 4D Scanning Transmission Electron Microscopy (4D-STEM) <b>CHAI Tiantian</b>
17:45	1174	Optically tuning the interface properties of infinite-layer nickelate thin films <b>PREZIOSI Daniele</b>
18:00	967	Optimization of sputtered $\alpha$ -MoO <sub>3</sub> thin films for memristor application <b>TYAGI Ayushi</b>