



## Join Us at These Sessions!

### Monday, April 7

#### Presented by Our Editors

**An Autonomous Lab Approach for Stabilizing Perovskite Thin Films Across Scales**

**Presenter:** Shijing Sun, Associate Editor, *APL Machine Learning*

**11:15AM PDT**

**Summit, Level 4, Room 430**

**Tailoring Molecular Space to Navigate Phase Complexity in 2D and Quasi-2D Halide Perovskites**

**Presenter:** Mahshid Ahmadi, Associate Editor, *APL Machine Learning*

**3:30PM PDT**

**Summit, Level 4, Room 434**

**PbI<sub>2</sub> Passivation of 3D PbS Quantum Dot Superlattices Towards Optoelectronic Metamaterials**

**Presenter:** Maria Antonietta Loi, Editor-in-Chief, *Applied Physics Letters*

**4:00PM PDT**

**Summit, Level 4, Room 427**

### Tuesday, April 8

#### Presented by Our Editors

**Flexoelectricity Induced for Interfacial Polarization in Silicon-Based Barrier Layer Capacitors**

**Presenter:** Susan Trolier-McKinstry, Associate Editor, *Applied Physics Letters*

**10:30AM PDT**

**Summit, Level 3, Room 320**

**Functional Imaging of Halide Perovskites Using Environmental Atomic Force Microscopy**

**Presenter:** Marina Leite, Associate Editor, *APL Materials*

**11:30AM PDT**

**Summit, Level 3, Room 345**

**Flexoelectricity in Suspended Membranes—Fundamentals**

**Presenter:** Jiangyu Li, Associate Editor, *Journal of Applied Physics*

**3:45PM PDT**

**Summit, Level 3, Room 320**

**Flexoelectricity in Suspended Membranes—Applications**

**Presenter:** Jiangyu Li, Associate Editor, *Journal of Applied Physics*

**4:00PM PDT**

**Summit, Level 3, Room 320**

## **Wednesday, April 9**

### **Presented by Our Editors**

#### **Building a Self-Driving Lab from Scratch**

**Presenter:** Shijing Sun, Associate Editor, *APL Machine Learning*

**9:00AM PDT**

**Summit, Level 4, Room 423**

#### **Polarization Stability and Its Influence on Electrocaloric Effects of High Entropy Perovskite Oxide Epitaxial Films**

**Presenter:** Susan Trolrier-McKinstry, Associate Editor, *Applied Physics Letters*

**1:30PM PDT**

**Summit, Level 3, Room 321**

#### **Self-Powered and Self-Healable Triboelectric Sensors for Soft Robotics Applications**

**Presenter:** Sohini Kar-Narayan, Editor-in-Chief, *APL Electronic Devices*

**2:00PM PDT**

**Summit, Level 4, Room 437**

#### **New Bulk Passivation for Sn-Perovskite Solar Cells**

**Presenter:** Maria Antonietta Loi, Editor-in-Chief, *Applied Physics Letters*

**3:30PM PDT**

**Summit, Level 4, Room 432**

#### **Combining Automated, In Situ Experiments with Machine Learning to Quantify the Dynamic Behavior of Halide Perovskites**

**Presenter:** Marina Leite, Associate Editor, *APL Materials*

**3:30PM PDT**

**Summit, Level 4, Room 424**

### **Meet Our Editors**

**Meet the Editors of *APL Electronic Devices***

**6:00PM PDT**

**Booth 402**

## **Thursday, April 10**

### **Presented by Our Editors**

#### **Implications of Amyloid Peptide Crystallization in Biomaterial Design**

**Presenter:** Mingdong Dong, Associate Editor, *AIP Advances*

**9:30AM PDT**

**Summit, Level 5, Room 336**

#### **Functional Devices for Healthcare Applications Based on Biological-to-Electrical Signal Transduction**

**Presenter:** Sohini Kar-Narayan, Editor-in-Chief, *APL Electronic Devices*

**10:45AM PDT**

**Summit, Level 3, Room 336**

**Thursday, April 10**

**Presented by Our Editors**

**External Stimuli Triggered Structural Dynamics and Phase Change in 2D Perovskite Materials**

**Presenter: Wanyi Nie, Associate Editor, *APL Electronic Devices***

**11:00AM PDT**

**Summit, Level 3, Room 343**

**Friday, April 11**

**Presented by Our Editors**

**Computational Design of Sustainable 2D Layered Semiconductors, Interfaces and Devices**

**Presenter: Yee Sin Ang, Associate Editor, *APL Electronic Devices***

**1:30PM PDT**

**Summit, Level 4, Room 440**

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