



# 63<sup>RD</sup> ELECTRONIC MATERIALS CONFERENCE

June 23-25, 2021 | Virtual Conference

## CALL FOR PAPERS

The **63rd Electronic Materials Conference (EMC)** is the premier annual forum on the preparation, characterization and use of electronic materials. This year's meeting will be **fully virtual!** Join us online from June 23-25, 2021, for a full program of the latest discoveries in electronic materials research, including a plenary session, parallel topical sessions and a poster session. Submit an abstract with your recent discoveries and innovations to lead conversations at EMC 2021 and advance the field!

### ABSTRACT SUBMISSION

December 14, 2020 – January 22, 2021

### PREREGISTRATION

Late March – June 18, 2021

### Conference Chair

**Kris Bertness**

National Institute of Standards and Technology

### Program Chair

**Lisa Porter**

Carnegie Mellon University

## SCIENTIFIC PROGRAM

Submit your oral and poster presentation abstracts to present at EMC 2021 on the following topics:

### ELECTRONIC MATERIALS SCIENCE AND TECHNOLOGY

- Contacts to Semiconductor Epilayers, Nanostructures and Organic Films
- Epitaxial Materials and Devices
- Materials Discovery
- Materials for Memory and Computation
- Materials Processing and Integration
- Metamaterials and Materials for THz, Plasmonics and Polaritons
- Nanofabrication and Processing
- Nano-Magnetic, Magnetic Memory and Spintronic Materials
- Narrow Bandgap Materials and Devices
- Physical Characterization for Quantum Computing
- Point Defects, Doping and Extended Defects
- Quantum Materials

### ENERGY STORAGE AND CONVERSION MATERIALS

- Electrochemical Energy Storage and Conversion
- Energy Harvesting
- Solar Cell Materials and Devices
- Thermoelectrics and Thermal Transport

### NANOSCALE SCIENCE AND TECHNOLOGY

- Graphene, BN, MoS<sub>2</sub> and Other 2D Materials and Devices
- Low-Dimensional Structures—Quantum Dots, Wires and Wells
- Nanoscale Characterization—Scanning Probes, Electron Microscopy and Other Techniques
- Nanostructured Materials

### ORGANIC MATERIALS, THIN FILMS AND DEVICES

- Electronic Materials for Bio
- Flexible, Printed and/or Dissolvable Thin Films or Nanomembranes
- Organic and Hybrid Optoelectronic Devices
- Organic Devices and Molecular Electronics

### OXIDE SEMICONDUCTORS AND DIELECTRICS

- Dielectrics and Multifunctional Oxides
- Gallium Oxide and Other Ultra-Wide Bandgap Oxides
- Oxide Semiconductors—Growth, Doping, Defects, Nanostructures and Devices

### WIDE BANDGAP SEMICONDUCTORS

- Diamond and Related Materials
- Group III-Nitrides—Growth, Processing, Characterization, Theory and Devices
- Silicon Carbide—Growth, Processing, Characterization, Theory and Devices

## THE VIRTUAL EMC EXPERIENCE

While we are disappointed to not be seeing you in-person, we are excited to bring an exceptional scientific program and conference experience to you online. Jump from plenary sessions to poster sessions and network with hundreds of your colleagues from around the globe, all from the comfort of your own desk.

Learn more and submit your abstract today!  
[mrs.org/63rd-emc](https://mrs.org/63rd-emc)



Student participation in this Conference is partially supported by a grant from the TMS Foundation.



EMC 2021 directly follows the 79<sup>th</sup> Device Research Conference, planned for June 20-23, 2021.



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