The MRS OnDemand Webinar Series

July 20, 2022

Correlative Microscopy with Atom Probe Tomography

Presented by MRS Bulletin

July 21, 2022

<u>Understanding Surface Reactions of the Solid Electrolyte Interface via Advanced</u> Characterization Techniques

Presented by Thermo Fisher Scientific and Oak Ridge National Laboratory

August 24, 2022

100 Years after Griffith: From Brittle Bulk Fracture to Failure in 2D Materials

Presented by MRS Bulletin

The MRS OnDemand Achieves



Heusler and Half-Heusler Compounds





Materials for Ultra-Efficient, High-Speed Optoelectronics





High Entropy Materials

More Info



Materials for Carbon Capture Technologies

More Info



Ideas for the Future of Materials Research

More Info



Ultrawide Bandgap Materials and Devices

More Info



Rare Earth Elements in Materials Science



Visualizing Li Metal Anode Battery Degradation

More Info



Cryo and in-situ electron microscopy diagnosis guided design ...

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Translation of 3D-Printed Materials for Medical Applications

More Info



Electric Field Control of Magnetism for Beyond CMOS Electron ...

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Materials for Electrification of Everything



Advanced Characterization Methods of Electrochemical Materia ...

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PowerPoint™ Karaoke

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Towards "Damage-Free" TEM specimen preparation by Focused Io ...

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Oxide electronics

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Career Discovery Series: Focus On Quantum and Nanomaterials



Materials Needs for Energy Sustainability by 2050: Frontiers ...





Making the Best of Poster Sessions in a Virtual Environment

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Launching Your Career After Graduate School - Webinar Series

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Becoming WiSE (Women In Science & Engineering)

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Materials Opportunities for Low-Energy Computing



Dynamic SIMS for Semiconductors – From compositional analysi ...

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Materials Evolution in 3D/4D: Understanding Time-Evolved Pr ...

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Nanomaterials for Biomedical Applications

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Acoustic Processes in Materials

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Self-Assembled Porphyrin and Macrocycle Derivatives



Bio-inspired "Far From Equilibrium" Materials

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Mechanical Behavior of Nanocomposites

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Piezotronics and Piezophototronics

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3D Printing of Biomaterials

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Materials for Strain-Mediated Magnetoelectric Systems and De ...





Fundamental Understanding and Applications of High-Entropy A ...

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Frontiers of Solid State Batteries

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Data-Centric Science for Materials Innovation

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AFM Characterization of Emerging Photovoltaics



Machine Learning, AI, and Data-Driven Materials Development ...

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Lead-free Piezoceramics

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Ultrafast Imaging of Materials Dynamics

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Materials for Nonreciprocal Photonics



An Introduction to Atom Probe Tomography and Its Application ...

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Materials for Advanced Semiconductor Memories

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Materials Enabling Flexible Hybrid Electronics

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Caloric Effects in Ferroic Materials



Materials for Energy Harvesting





Materials for Heat Assisted Magnetic Recording (HAMR)

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Dealloyed Nanoporous Materials with Interface-Controlled Beh ...

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DNA Nanotechnology: A Foundation for Programmable Nanoscale ...





Catalysts for Nanocarbon Growth

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Materials under Pressure

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Single Atom Fabrication with Beams and Probes

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Biomedical Applications of Magnetic Micro- and Nanoparticles

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3D Bioprinting of Organs and Organs-on-a-Chip



Electron Emission Materials

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Next-Generation Materials for Synchrotron Radiation

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System Integration of Functionalized Natural Materials

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Materials Enabling Nanofluidic Flow Enhancement



Glass Ceramics

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Stretchable and Ultra-Flexible Organic Electronics

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Material Functionalities from Molecular Rigidity

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Ultrafast Laser Synthesis and Processing of Materials



Metal-Organic Frameworks for Electronics and Photonics

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Metallic Materials for 3D Printing

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Incorporating Sustainability Principles into Your Research

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Hierarchical Materials



Teaching the Role of Materials in Sustainable Development: C ...

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Microstructure Informatics in Materials and Process Design

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Advanced Tomography Techniques for Biological, Organic and I ...

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Frontiers of Synchrotron Diffraction Research in Materials S ...



Nucleation in Atomic, Molecular, and Colloidal Systems

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Twinning in Metallic Materials: Strengthening and Plasticity

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Using a New Coincident X-ray Photoelectron Spectroscopy and ...

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MRS Turnbull Lecture Webinar: Soft Matter Across the Milleni ...

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Metamorphic Epitaxial Materials



Materials & Engineering: Propelling Innovation

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Beyond Conventional Lithography: Patterning via self-organiz ...

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High Throughput Miniature Electron Beam Columns: Microscopy ...

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Atom Probe Tomography (APT) and Applications in Materials Sc ...



Mesoscale Materials, Phenomena and Functionality

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Engineered Nanomaterials in Aerospace Applications

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Why is PeakForce Tapping the Fastest Growing AFM Mode?

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Functional Nanocomposites



Perovskite Photovoltaics

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2D Transition Metal Dichalcogenides

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3D Integrated Circuits: Materials Challenges



3D Printing of Biomaterials

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In Situ Transmission Electron Microscopy

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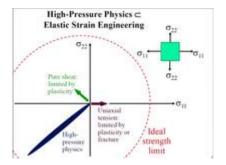


Nanodiamond and Diamond Electronics





Surface Characterization of Mechanical & Chemical Properties...



Elastic Strain Engineering





Nanoindentation: Fundamentals and Frontiers