The Materials Research Society is taking the 2021 MRS Fall Meeting & Exhibit to an exciting new level, offering a Hybrid Event where presenters and attendees can choose to join us in person in Boston, Massachusetts, attend virtually from the comfort of their home or office, or both!

Fall Meeting registrations include MRS Membership • January – December 2022

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Abstract Submission Opens
May 14, 2021
Abstract Submission Deadline
June 22, 2021

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BI01 Developing an Open Source Introductory Textbook for the Materials Community
BI02 Women in Materials Science—Pioneers and a Vision for a More Inclusive Future

CHARACTERIZATION
CH01 In Situ and Operando Techniques Applied to Electrochemical Systems—A Key Toolkit for Deep Understanding
CH02 Solid-State Chemistry of New Materials
CH03 Frontiers in Scanning Probe Microscopy—Beyond Imaging of Soft Materials
CH04 Accelerating Materials Characterization, Modeling and Discovery by Physics-Informed Machine Learning

MATERIALS COMPUTING AND DATA SCIENCE
DS01 Accelerating Experimental Materials Research with Machine Learning
DS02 Advanced Atomistic Algorithms in Materials Science
DS03 Combining Machine Learning with Simulations for Materials Modeling

ELECTRONICS, OPTICS AND QUANTUM
EQ01 Quantum Optical Materials and Devices Based on Impurity Systems
EQ02 Heterostructures of Various Dimensional Materials
EQ03 Spin-Based Sensing at the Nanoscale and Hyperpolarization with NV-Diamond and Beyond
EQ04 Machine Learning on Experimental Data for Emergent Quantum Materials
EQ05 Plasmonics, Nanophotonics and Metaphotonics—Design, Materials and Applications
EQ06 Innovative Fabrication and Processing Methods for Organic and Hybrid Electronics
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EQ08 New Frontiers in the Design, Fabrication and Applications of Metamaterials and Metasurfaces
EQ09 Cutting-Edge Plasma Processes for Next-Generation Materials Science Applications
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EQ11 Materials, Processes and Device Structures Enabling Next-Generation High-Frequency Flexible Electronics
EQ12 Optical Probes of Nanostructured, Organic and Hybrid Materials
EQ13 Nitride Materials—Synthesis, Characterization and Modeling
EQ14 Materials and Devices for Controlling Quantum-Coherent Spin Dynamics
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EQ17 Emerging Materials for Contacts and Interfaces in Optoelectronics
EQ18 Emerging Materials for Quantum Information
EQ19 Diamond and Diamond Heterojunctions—From Growth to Applications
EQ20 Beyond Graphene 2D Materials—Synthesis, Properties and Device Applications

ENERGY AND SUSTAINABILITY
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EN02 Solid-State Batteries—Electrodes, Electrolytes and Interfaces
EN03 Thermal Materials, Modeling and Technoeconomic Impacts for Thermal Management and Energy Application
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EN05 Emerging Energy and Materials Sciences in Halide Perovskites
EN06 Sustainable Electronics—Green Chemistry, Circular Materials, End-of-Life and Eco-Design
EN07 Mechano-Thermo and Electrical Coupling in Emerging Energy Materials
EN08 Low-Dimensional Halide Perovskites—From Fundamentals to Applications
EN09 Metal Sulfides for High Performance Electrochemical Batteries
EN10 Advanced Materials for Thermal Energy Management and Harvesting
EN11 Electrocatalytic Materials to Sustainably Convert Atmospheric C, H, O and N into Fuels and Chemicals
EN12 Advanced Materials and Chemistry for Low-Cost and Sustainable Batteries
EN13 Climate Change Mitigation Technologies
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SB05 Antimicrobial Materials Against Coronaviruses and Other Nosocomial Pathogens
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SF03 3D Printing of Functional Materials and Devices
SF04 New Types of Polymers, Composites and Hybrid Materials for Additive Manufacturing

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Meeting Chairs
Markus J. Buehler Massachusetts Institute of Technology
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Marina Leite University of California, Davis
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