



REGISTER BY APRIL 5 AND SAVE!

Spring Meeting registrations include MRS Membership July 1, 2019 – June 30, 2020

GENERAL INTEREST

NEW!

GI01 Advancing Materials Discovery with Data-Driven Science

BROADER IMPACT

BI01 High Impact Practice—Increasing Ethnic and Gender Diversification in Engineering Education

CHARACTERIZATION, PROCESSING AND THEORY

CP01 Advances in *In Situ* Experimentation Techniques Enabling Novel and Extreme Materials/Nanocomposite Design

CP02 Design and *In Situ* TEM Characterization of Self-Assembling Colloidal Nanosystems

CP03 Advances in *In Situ* Techniques for Diagnostics and Synthetic Design of Energy Materials

CP04 Interfacial Science and Engineering—Mechanics, Thermodynamics, Kinetics and Chemistry

CP05 Materials Evolution in Dry Friction—Microstructural, Chemical and Environmental Effects

CP06 Smart Materials for Multifunctional Devices and Interfaces

CP07 From Mechanical Metamaterials to Programmable Materials

CP08 Additive Manufacturing of Metals

CP09 Mathematical Aspects of Materials Science—Modeling, Analysis and Computations

ELECTRONICS AND PHOTONICS

Soft Organic and Biomolecular Electronics

EP01 Liquid Crystalline Properties, Self-Assembly and Molecular Order in Organic Semiconductors

EP02 Photonic Materials and Devices for Biointerfaces

EP03 Materials Strategies and Device Fabrication for Biofriendly Electronics

EP04 Soft and Stretchable Electronics—From Fundamentals to Applications

EP05 Engineered Functional Multicellular Circuits, Devices and Systems

EP06 Organic Electronics—Materials and Devices

Semiconductor Devices, Interconnects, Plasmonic and Thermoelectric Materials

EP07 Next-Generation Interconnects—Materials, Processes and Integration

EP08 Phase-Change Materials for Memories, Photonics, Neuromorphic and Emerging Application

EP09 Devices and Materials to Extend the CMOS Roadmap for Logic and Memory Applications

EP10 Heterovalent Integration of Semiconductors and Applications to Optical Devices

EP11 Hybrid Materials and Devices for Enhanced Light-Matter Interactions

EP12 Emerging Materials for Plasmonics, Metamaterials and Metasurfaces

EP13 Thermoelectrics—Materials, Methods and Devices

ENERGY AND SUSTAINABILITY

Energy Storage

ES01 Organic Materials in Electrochemical Energy Storage

ES02 Next-Generation Intercalation Batteries

ES03 Electrochemical Energy Materials Under Extreme Conditions

ES04 Solid-State Electrochemical Energy Storage

Catalysis, Alternative Energy and Fuels

ES05 Cooperative Catalysis for Energy and Environmental Applications

ES06 Atomic-Level Understanding of Materials in Fuel Cells and Electrolyzers

ES07 New Carbon for Energy—Materials, Chemistry and Applications

ES08 Materials Challenges in Surfaces and Coatings for Solar Thermal Technologies

ES10 Rational Designed Hierarchical Nanostructures for Photocatalytic System

ES11 Advanced Low Temperature Water-Splitting for Renewable Hydrogen Production via Electrochemical and Photoelectrochemical Processes

ES12 Redox-Active Oxides for Creating Renewable and Sustainable Energy Carriers

Water-Energy Materials and Sustainability

ES09 Advanced Materials for the Water-Energy Nexus

ES13 Materials Selection and Design—A Tool to Enable Sustainable Materials Development and a Reduced Materials Footprint

ES14 Materials Circular Economy for Urban Sustainability

Photovoltaics and Energy Harvesting

ES15 Fundamental Understanding of the Multifaceted Optoelectronic Properties of Halide Perovskites

ES16 Perovskite Photovoltaics and Optoelectronics

ES17 Perovskite-Based Light-Emission and Frontier Phenomena—Single Crystals, Thin Films and Nanocrystals

ES18 Frontiers in Organic Photovoltaics

ES19 Excitonic Materials and Quantum Dots for Energy Conversion

ES20 Thin-Film Chalcogenide Semiconductor Photovoltaics

ES21 Nanogenerators and Piezotronics

QUANTUM AND NANOMATERIALS

QN01 2D Layered Materials Beyond Graphene—Theory, Discovery and Design

QN02 Defects, Electronic and Magnetic Properties in Advanced 2D Materials Beyond Graphene

QN03 2D Materials—Tunable Physical Properties, Heterostructures and Device Applications

QN04 Nanoscale Heat Transport—Fundamentals

QN05 Emerging Thermal Materials—From Nanoscale to Multiscale Thermal Transport, Energy Conversion, Storage and Thermal Management

QN06 Emerging Materials for Quantum Information

QN07 Emergent Phenomena in Oxide Quantum Materials

QN08 Colloidal Nanoparticles—From Synthesis to Applications

SOFT MATERIALS AND BIOMATERIALS

SM01 Materials for Biological and Medical Applications

SM02 Progress in Supramolecular Nanotheranostics

SM03 Growing Next-Generation Materials with Synthetic Biology

SM04 Translational Materials in Medicine—Prosthetics, Sensors and Smart Scaffolds

SM05 Supramolecular Biomaterials for Regenerative Medicine and Drug Delivery

SM06 Nano- and Microgels

SM07 Bioinspired Materials—From Basic Discovery to Biomimicry

www.mrs.org/spring2019

Meeting Chairs

Yuping Bao The University of Alabama

Bruce Dunn University of California, Los Angeles

Subodh Mhaisalkar Nanyang Technological University

Ruth Schwaiger Karlsruhe Institute of Technology—
Institute for Applied Materials

Subhash L. Shinde University of Notre Dame

Don't Miss These Future MRS Meetings!

2019 MRS Fall Meeting & Exhibit

December 1–6, 2019, Boston, Massachusetts

2020 MRS Spring Meeting & Exhibit

April 13–17, 2020, Phoenix, Arizona

FOLLOW THE MEETING!

#S19MRS  

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Advancing materials. Improving the quality of life.