2017 MRS® FALL MEETING & EXHIBIT

November 26–December 1, 2017 | Boston, Massachusetts

CALL FOR PAPERS

Abstract Submission Opens
May 15, 2017

Abstract Submission Deadline
June 15, 2017

BROADER IMPACT

- BI1 Community College and University Partnerships as Catalysts for Promoting Materials Science Education
- BI2 Materials Innovation for Sustainable Agriculture and Energy

BIOMATERIALS AND SOFT MATERIALS

- BM1 Multiscale Mechanobiology and Biomechanics—Theory, Experiments, Computations
- BM2 Multiphase Fluids for Materials Science—Droplets, Bubbles and Emulsions
- BM3 Biological and Bioinspired Materials for Photonics and Electronics—From Living Organisms to Devices
- BM4 Biomaterials for Regenerative Engineering
- BM5 Polymer Gels in Materials Science—3D/4D Printing, Fundamentals and Applications
- BM6 2D Nanomaterials in Health Care
- BM7 Emerging Materials and Devices for Engineering Biological Function and Dynamics
- BM8 Materials Design for Neural Interfaces
- BM9 Stretchable Bioelectronics—From Sensor Skins to Implants and Soft Robots
- BM10 Bioinspired Interfacial Materials with Superwettability
- BM11 Modeling, Characterization, Fabrication and Applications of Advanced Biopolymers—Where Form Meets Function
- BM12 Biomolecular Self-Assembly for Materials Design

ELECTRONICS, MAGNETICS AND PHOTONICS

- EM1 Organic Semiconductors—Surface, Interface, Bulk Doping and Charge Transport
- EM2 Multiferroics and Magnetoelectrics
- EM3 Novel Materials and Architectures for Plasmonics—From the Ultraviolet to the Terahertz
- EM4 Wide- and Ultra-Wide-Bandgap Materials and Devices
- EM5 Oxide Interfaces—Lattice and Electronic Defect Interactions
- EM6 Diamond Electronics, Sensors and Biotechnology—Fundamentals to Applications
- EM7 Materials, Devices and Architectures for Neuromorphic Engineering and Brain-Inspired Computing
- EM8 Emerging Materials for Quantum Information
- EM9 Electronic and Ionic Dynamics at Solid-Liquid Interfaces
- EM10 Solution-Processed Inorganics for Electronic and Photonic Device Applications

ENERGY AND SUSTAINABILITY

- ES1 Perovskite Materials and Devices—Progress and Challenges
- ES2 On the Way to Sustainable Solar Fuels—New Concepts, Materials and System Integration
- ES3 Earth Abundant Metal Oxides, Sulphides and Selenides for Energy Systems and Devices
- ES4 Interfaces in Electrochemical Energy Storage
- ES5 Materials and Design for Resilient Energy Storage
- ES6 Alkali Solid Electrolytes and Solid-State Batteries
- ES7 Chromogenic Materials and Devices
- ES8 Advanced Nuclear Materials—Design, Development and Deployment
- ES9 Thermal Energy—Transfer, Conversion and Storage
- ES10 Materials Efficiency to Enable a Circular Materials Economy
- ES11 Silicon for Photovoltaics

NANOMATERIALS

- NM1 Carbon Quantum Dots—Emerging Science and Technology
- NM2 Anisotropic Carbon Nanomaterials—Frontiers in Basic and Applied Research
- NM3 Progress in Developing and Applications of Functional One-Dimensional Nanostructures
- NM4 Atomically Thin, Layered and 2D Non-Carbon Materials and Systems
- NM5 Nanomaterials, Nanoparticles and Nanostructures Produced by Plasmas—Synthesis, Characterization and Applications
- NM6 Semiconductor Nanocrystals, Plasmonic Nanoparticles and Metal-Hybrid Structures
- NM7 Nanostructure-Based Optical Bioprobes—Advances, Trends and Challenges in Optical and Multimodular Bioimaging and Sensing
- NM8 Defect-Induced Phenomena and New States of Matter at the Nanoscale

PROCESSING AND MANUFACTURING

- PM1 Explore New Frontiers in Materials Design Using Plasmas—Synthesis, Processing and Characterization
- PM2 Advances and Upcoming Research Strategies in Reactive Materials
- PM3 Interfaces and Interface Engineering in Inorganic Materials
- PM4 Micro-Assembly Technologies—Fundamentals to Applications

THEORY, CHARACTERIZATION AND MODELING

- TC1 Multifunctional and Multifrequency Scanning Probe Microscopy
- TC2 *In Situ* Studies of Materials Transformations
- TC3 Emerging Prospect and Capabilities in Ion Beam Technology and Applications
- TC4 Advanced Atomistic Algorithms in Materials Science
- TC5 Uncertainty Quantification in Multiscale Materials Simulation
- TC6 Mechanical Behavior at the Micro and Nanoscale—Bridging Between Computer Simulations and Experiments
- TC7 Design, Control and Advanced Characterization of Functional Defects in Materials

Meeting Chairs

Ilke Arslan Pacific Northwest National Laboratory
Jason A. Burdick University of Pennsylvania
Tao Deng Shanghai Jiao Tong University
James B. Hannon IBM T.J. Watson Research Center
Sanjay Mathur University of Cologne

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2017 iMatSci Innovator Showcase

CALL FOR EARLY-STAGE STARTUPS
Submission Site Opens: June 1, 2017

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Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
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Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo

Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

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