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

www.mrs.org/fall2017

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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