2011 MRS SPRING MEETING

April 25-29, 2011 • San Francisco, California

MATERIALS RESEARCH SOCIETY

MRS

Advancing materials. Improving the quality of life.

SYMPOSIA

MATERIALS FOR ENERGY AND SUSTAINABILITY

- A Amorphous and Polycrystalline Thin-Film Silicon Science and Technology
- B Third-Generation and Emerging Solar-Cell Technologies
- C Advanced Materials Processing for Scalable Solar-Cell Manufacturing
- D Compound Semiconductors for Energy Applications and Environmental Sustainability
- E Energy Harvesting—From Fundamentals to Devices
- F Renewable Fuels and Nanotechnology
- G Complex Oxide Materials for Emerging Energy Technologies
- H Electrochromic Materials and Devices
- I Nanoscale Heat Transfer—Thermoelectrics, Thermophotovoltaics, and Emerging Thermal Devices
- J Protons in Solids
- K Frontiers of Solid-State Ionics
- L Interfacial Phenomena and *In-situ* Techniques for Electrochemical Energy Storage and Conversion
- M Nanostructured Materials for Energy Storage
- N Recent Developments in Materials for Hydrogen Storage and Carbon-Capture Technologies

ELECTRONIC AND PHOTONIC MATERIALS

- O Materials, Processes, and Reliability for Advanced Interconnects for Micro- and Nanoelectronics
- P Interface Engineering for Post-CMOS Emerging Channel Materials
- Q New Functional Materials and Emerging Device Architectures for Nonvolatile Memories
- R Phase-Change Materials for Memory and Reconfigurable Electronics Applications
- S Plasma-Assisted Materials Processing and Synthesis
- T High-Speed and Large-Area Printing of Micro/Nanostructures and Devices
- U Nuclear Radiation Detection Materials
- V Rare-Earth Doping of Advanced Materials for Photonic Applications
- W Recent Progress in Metamaterials and Plasmonics

NANOMATERIALS AND NANOTECHNOLOGY

- Y Functional Two-Dimensional Layered Materials
- Z Nanoscale Electromechanics of Inorganic, Macromolecular, and Biological Systems
- AA Micro- and Nanofluidic Systems for Materials Synthesis, Device Assembly, and Bioanalysis II
- BB Nanoscale Heat Transport—From Fundamentals to Devices
- CC Hybrid Interfaces and Devices
- DD Quantitative Characterization of Nanostructured Materials
- EE Semiconductor Nanowires—From Fundamentals to Applications
- FF Surfaces and Nanomaterials for Catalysis through *In-situ* or *Ex-situ* Studies
- GG Titanium Dioxide Nanomaterials
- HH The Business of Nanotechnology III
- II Ion Beams—New Applications from Mesoscale to Nanoscale

ORGANIC AND BIOMATERIALS

- JJ Biological Hybrid Materials for Life Sciences
- KK Microbial Life on Surfaces—Biofilm-Material Interactions
- LL Biomimetic Engineering of Micro- and Nanoparticles
- MM Organic Bioelectronics and Photonics for Sensing and Regulation
- NN Electronic Organic and Inorganic Hybrid Nanomaterials—Synthesis, Device Physics, and Their Applications
- OO Synthesis and Processing of Organic and Polymeric Materials for Semiconductor Applications
- PP Engineering Polymers for Stem-Cell-Fate Regulation and Regenerative Medicine

GENERAL MATERIALS SCIENCE

- QQ Carbon Functional Interfaces
- RR Fundamental Science of Defects and Microstructure in Advanced Materials for Energy
- SS Forum on Materials Education and Evaluation—K-12, Undergraduate, Graduate, and Informal
- TT Laser-Material Interactions at Micro/Nanoscales
- UU Crystalline Nanoporous Framework Materials—Applications and Technological Feasibility
- VV Future Directions in High-Temperature Superconductivity—New Materials and Applications
- WW Multiferroic, Ferroelectric, and Functional Materials, Interfaces, and Heterostructures
- XX Computational Studies of Phase Stability and Microstructure Evolution
- YY Computational Semiconductor Materials Science

GENERAL

- X Frontiers of Materials Research

Meeting Chairs

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