MRS 1998 Fall Meeting
BOSTON, MA

FALL MEETING 98 NOV. 30 - DEC. 4 BOSTON MASSACHUSETTS

Graduate Student Awards

Gold Medal Award Winners

Symposium R: Marc A. Baldo, Princeton University, Princeton, NJ
R5.7: The Excitonic Singlet-Triplet Ratio in a Conductive Organic Thin Film

Symposium A: Derrick T. Carpenter, Lehigh University, Bethlehem, PA
A6.1: Automated Microstructural Analysis of Polycrystalline Thin Films

Symposium H: John R. Harper, Texas A&M University, College Station, TX
H2.9: XSTM Characterization of Sb Segregation in GaInSb/InAs Superlattices

Symposium F: Bryan D. Huey, University of Pennsylvania, Philadelphia, PA
F9.11: Electronic Properties of Individual Grain Boundaries in ZnO and SrTiO3 Bicrystals and Polycrystals

Symposium Q: Byeongwon Kang, University of Kansas, Lawrence, KS
Q5.10: Puzzling Hall Sign Anomaly in High-Tc Superconductors

Symposium W: Daniel L. Polis , University of Pennsylvania, Philadelphia, PA
W5.3: Block Copolymer Dynamics Investigated with Simultaneous Small Angle X-Ray Scattering and Shearing

Symposium EE Gwenaëlle Rousse, Université Paris-Sud, Orsay, France
EE4.5: Charge-Ordering Phase Transition in Spinel LiMn2O4 Around Room Temperature

Symposium B: Jeffrey S. Sullivan, University of Wisconsin-Madison, Madison, WI
B1.8: Heteroepitaxial Strain Stabilization of the Si{105} p(2x1) Reconstruction

Symposium GG: Madeline Torres-Lugo, Purdue University, W. Lafayette, IN
GG2.6: Novel pH-Sensitive Hydrogels with PEG-Tethered Chains for Oral Delivery of Calcitonin

Symposium EE: Anton Van der Ven, Massachusetts Institute of Technology, Cambridge, MA
EE3.74: First Principles Investigation of Lithium Transition Metal Oxides with the Spinel Crystal Structure

Symposium N/J: Brian D. Wirth, University of California at Santa Barbara, CA
N7.4/J9.4: Kinetic Lattice Monte Carlo Simulations of Cascade Aging in Fe and Dilute Fe-Cu Alloys

Symposium S: Stanislaus S. Wong, Harvard University, Cambridge, MA
S4.2: Covalently Functionalized Nanotubes as Nanometer Probes for Chemistry and Biology

Symposium FF: Andrey Zarur, Massachusetts Institute of Technology, Cambridge, MA
FF2.3: Catalytic Combustion with Nanostructured Barium Hexaaluminate-Based Systems

Symposium U: Mingqi Zhao, Texas A&M University, College Station, TX
U8.19: Highly Impermeable Hyperbranched-Polymer Thin Films Derived from PAMAM or Cascade Dendrimers

Silver Medal Award Winners

Symposium L: Rong Bai, Brown University, Providence, RI
L4.7: The Structure of Tilt Grain Boundaries in

Aluminum

Symposium L: Michael V. Braginsky, University of Pennsylvania, Philadelphia, PA
L1.5: Floquet Waves and Grain Boundary Phonons

Symposium C: Dmitriy S. Chekmarev, The University of Chicago, The James Franck Institute, Chicago, IL
C8.19: Computer Simulation Study of the Structure of the Liquid-Vapor Interface of Mercury at 20, 100 and 200oC

Symposium OO: Xiaohua (Cinti) Chen , Georgia Institute of Technology, Atlanta, GA
OO10.5: Deposition and Etching of Amorphous Carbon Films Prepared by ECR-Enhanced Chemical Vapor Deposition with Benzene

Symposium A: Xing Chu, Carnegie Mellon University, Pittsburgh, PA
A7.12: Effect of Grain Orientation and Grain-Boundary Misorientation on Electromigration Failure in Sub-Micrometer Aluminum Interconnects

Symposium G: John M. DeLucca, The Pennsylvania State University, University Park, PA
G6.55: Electrodeposited Pt Contacts to n- and p-Type GaN
Symposium J: Lawrence H. Friedman, University of California at Berkeley, CA
J6.22: Scaling Theory of Dislocation Pileups and the Hall-Petch Relation

Symposium M: Alexander Hartmaier, Max-Planck-Institut für Metallforschung, Stuttgart, Germany
M9.1: Mesoscopic Simulation of Dislocation Activity at Crack Tips

Symposium O: Jaemo Im, Northwestern University, Evanston, IL
O8.5: *In Situ* Mass Spectroscopy of Recoiled Ion Studies of Degradation Processes in SrBi2Ta2O9

Thin Films During Hydrogen Gas Anneal

Symposium II: Catherine Klapperich, University of California at Berkeley, CA
II4.2: Plasma Surface Modification of Medical Grade Ultrahigh Molecular Weight Polyethylene for Improved Tribological Properties

Symposium EE: Young Joo Lee, State University of New York at Stony Brook, NY
EE3.70: 6Li and 7Li MAS NMR and *In Situ* X-Ray Diffraction Studies of Lithium Manganate Cathode Materials

Symposium J: Ju Li, Massachusetts Institute of Technology, Cambridge, MA
J2.7: Coupling Continuum to MD Simulation with Minimal Disturbance Thermodynamic Field Estimator, Optimal Particle Controller and Buffer-Zone Feedback

Symposium B: Charlene Lobo, Australian National University, Canberra, Australia
B2.3: Structural Evolution and the Role of Dislocations in InGaAs Island Formation on (110), (111)B and (311)B GaAs Surfaces

Symposium LL: Yoshiko Sakairi, University of Tokyo, Tokyo, Japan
LL4.7: Modulated Photocurrent Measurements on Icosahedral Quasicrystals of Al-Pd-Re System

Symposium B: Leonid E. Shilkrot, University of Michigan, Ann Arbor, MI
B5.3: Elastic Analysis of Heteroepitaxial Growth of Multilayers Growth Instabilities and Lateral Composition Modulation

Symposium F: Moonsub Shim, The University of Chicago, The James Franck Institute, Chicago, IL
F6.10: Dielectric Dispersion Studies of Semiconductor Nanocrystal Colloids Evidence for Ground State Dipole Moment

Symposium P: Vera N. Smolyaninova, University of Maryland, College Park, MD

P3.8: Anomalous Low-Temperature Specific Heat of Charge-Ordered La0.5Ca0.5MnO3

Symposium A: Jay F. Whitacre, University of Michigan, Ann Arbor, MI
A2.6: Biaxial Texture Evolution in Thin Sputtered Films
A6.27: Controlling Amorphous Content and Stress State in Ultrathin Ta Films

Symposium F: Eva M. Wong, The Johns Hopkins University, Baltimore, MD
F7.7: The Growth Kinetics of Nanocrystalline ZnO Particles from Colloidal Suspensions
F8.25: Photoluminescence of ZnO Quantum Particle Thin Films

Symposium D: William S. Wong, University of California at Berkeley, CA
D1.2: Bonding and Laser Liftoff of GaN Thin Films from Sapphire onto Si and GaAs Substrates

Symposium C: Yiping Zhao, Rensselaer Polytechnic Institute, Troy, NY
C5.4: Study of Surface Etch-Front Morphology Using Light Scattering Techniques

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