

Proceedings of the 1994 International Conference on Solid State Ionics

SOLID STATE IONICS

ADVANCED MATERIALS FOR
EMERGING TECHNOLOGIES

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Solid State Ionics 3 Volume 293 Materials

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High-temperature Ordered Intermetallic Alloys, 1992 *Silicon Nitride Ceramics* I-Wei Chen, 1993 *Amorphous*

Insulating Thin Films, 1993 **Atomic-scale Imaging of Surfaces and Interfaces** D. K. Biegelsen, David J. Smith, S. Y. Tong, 1993 Materials tunneling microscopy for hydrogen desorption induced structural change of Si 111 surface Steps on the 110 surface InP Scanning tunneling microscopy on charge density waves in layered compounds Design of ultra high vacuum scanning electron microscope combined with scanning tunneling microscope Scanning tunneling microscopy perspective of structures on reduced SrTiO₃ 001 surfaces Surface structure and electronic property of reduced SrTiO₃ 100 surface observed by STM STS Metastable structural surface excitations and concerted adatom motions a STM study of atomic motions within a semiconductor surface Mechanisms and energetics of surface atomic processes an atom probe field ion microscope study Atomic arrangement of Al near the phase boundaries between square root 3X square root 3 Al and 7X7 structures on Si 111 surfaces Growth and surface morphology of thin silicon films using an atomic force microscope Solving interface structures by combined electron microscopy and X ray diffraction Quantitative hrem study of the atomic structure of the sum 310 001 symmetric tilt grain boundary in Nb Hrtm observation of a sum 3 112 bicrystal boundary in aluminum Atomic structure of the 310 twin in niobium theoretical predictions and comparison with experimental observation Quantitative high resolution electron microscopy of grain boundaries in gamma Al₂ O₃ Comparisons of observed and simulated atomic structures of Pd NiO heterophase interfaces Atomic structure of sum 5 130 symmetrical tilt boundary in strontium titanate Assessment of GaInAs GaInAsP interdiffusion profiles obtained using stem edx and hrem Electron microscopy characterization of epitaxial growth of Ag deposited on MgO microcubes Real time viewinf of dynamic processes on CdTe surfaces at elevated temperature AFM imaging of the crystalline to amorphous transition on the surface of ion implanted mica AFM imagings of ferritin molecules bound to LB films of poly 1 benzyl L histidine Artifacts in atomic force microscopy of nanoporous and mesoporous fiducial samples Al induced reconstructions on the Si 111 surfaces studied by scanning tunneling microscopy Structure of the sum 3 111 grain boundary in Cu 1 5%Sb High resolution electron microscopy of sum 3 NiSi₂ 111 115 Si and NiSi₂ 221 001 Si interfaces Image simulations of Ge twin boundaries Surface structure of oxide catalyst microcrystals high resolution electron microscopy study A microstructural study of reaction bonded silicon carbide

Solid-state Ionic Devices III E. D. Wachsman, 2003 *Phase-field Modeling of Phase Changes and Mechanical Stresses in Electrode Particles of Secondary Batteries* Zhang, Tao, 2021-09-27 Most storage materials exhibit phase changes which cause stresses and thus lead to damage of the electrode particles In this work a phase field model for the cathode material Na_xFePO₄ of Na ion batteries is studied to understand phase changes and stress evolution Furthermore we study the particle size and SOC dependent miscibility gap of the nanoscale insertion materials Finally we introduce the nonlocal species concentration theory and show how the nonlocality influences the results Ceramic Materials for Energy Applications VI, Volume 37, Issue 6 Hua-Tay Lin, Josef Matyas, Yutai Katoh, Alberto Vomiero, 2017-01-31 A collection of 15 papers from The American Ceramic Society s 40th International Conference on Advanced Ceramics and Composites held in

Daytona Beach Florida January 24 29 2016 This issue includes papers presented in Symposia 6 Advanced Materials and Technologies for Energy Generation Conversion and Rechargeable Energy Storage Symposium 13 Advanced Ceramics and Composites for Sustainable Nuclear Energy and Fusion Energy and Focused Session 2 Advanced Ceramic Materials and Processing for Photonics and Energy

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