Table of Contents

Preface

Electronic Structure Analysis of Silicon Nanowires for High Conductivity in n- and p-channel Nanowire-FET
  Y. Lee, T. Nagata, K. Kakushima, K. Shiraishi and H. Iwai

Hole Mobility in Si(110) p-MOS Transistors
  P. Gaubert, A. Teramoto and T. Ohmi

Measurement of the Mechanical Stability of Semiconductor Line Structures in Relevant Media
  D. Peter, M. Dalmer, H. Kruwinus, A. Lechner, L. Archer, E. Gaulhofer, A. Gigler, R. Stark and W. Bensch

Analysis of Threshold Voltage Variations of FinFETs Relating to Short Channel Effects

Schottky Barrier Height Modulation by Er Insertion and Its Application to SB-MOSFETs

Micro and Nano R&D Fab Performance and Productivity A Lean Six-Sigma Approach
  R. J. Olson, W. Hawkins, P. Piacente, R. Frank, J. Deluca, L. Douglas and G. Trant

The Novel Highly-Selective Etching Process of SiO2 to TiSix for Nano-Scale Device Fabrication
  D. Hwang, K. Kim, Y. Lee and S. Chae

Impurity Amplification in Ultra High Purity Hydrogen Bromide by Water Catalyzed Reactions from Different Cylinder Materials
  A. Seymour, R. Torres, C. Wyse, J. Yao, T. Evdokimova, R. Pemberton, M. Raynor, J. Lee and W. Jung
Multiple Defect Modes in Diamond Photonic Crystal
M. Thitsa, T. V. Nguyen and S. Albin

Electrochemical Evaluation and Finite Element Structural Analysis of Si Wafer Surface Under Mechanical Stress
K. Sakata and T. Homma

Investigation of THz Emission by p-GaAsSb
S. Hargreaves, L. Bignell, R. Lewis, D. Schoenherr, M. Saglam and H. Hartnagel

Control of the Crystal Phase in Fe/Si Films by Using Thin Film Zone Melting Crystallization
T. Inoue, T. Shinsuke, Y. Tanaka and M. Ihara

Temperature-Dependent PL Intensity in FLA-Synthesized and Hydrogen-Modified Silica Layers with Silicon Nanocrystals
V. Volodin, V. Stuchinsky, S. Cherkova, G. Kachurin and R. Yankov

Author Index

113