



PAGE REGULAR ISSUE PAPERS

- 633 Transport Properties of Ni and PbTe Under Pressure
Matthew K. Jacobsen, Ravhi S. Kumar, and Andrew L. Cornelius
- 639 Simultaneous Increases in Electrical Conductivity and Seebeck Coefficient of PEDOT:PSS Films by Adding Ionic Liquids into a Polymer Solution
Congcong Liu, Jingkun Xu, Baoyang Lu, Ruirui Yue, and Fangfang Kong
- 646 Preparation of Ag Nanocomposite Tellurite Glass by Solid-State Field-Assisted Diffusion
Yan Ma, Jian Lin, Shuang Qin, Linfeng Zhu, Bofang Li, and Shuhua Lei
- 651 Microstructure, Phase Transition, and Piezoelectric Properties of Cerium-Substituted Bismuth Titanate Nanofibers
Bo Jiang, Minghua Tang, Jiancheng Li, Yongguang Xiao, Haizheng Tao, Yichun Zhou, and John He
- 656 Forming-Free Reversible Bipolar Resistive Switching Behavior in Al-Doped HfO₂ Metal-Insulator-Metal Devices
R. Mahapatra, A.B. Horsfall, and N.G. Wright
- 660 Grain Boundary Carrier Scattering in ZnO Thin Films: a Study by Temperature-Dependent Charge Carrier Transport Measurements
R.V. Muniswami Naidu, Aryasomayajula Subrahmanyam, Arnaud Verger, M.K. Jain, S.V.N. Bhaskara Rao, S.N. Jha, and D.M. Phase
- 665 Structural, Optical, and Electrical Properties of Cobalt-Doped CdS Quantum Dots
M. Thambidurai, N. Muthukumarasamy, Dhayalan Velauthapillai, S. Agilan, and R. Balasundaraprabhu
- 673 Optimization of Phase Formation and Superconducting Properties in MgB₂ Prepared by Phase Transformation from MgB₄
K.L. Tan, K.Y. Tan, K.P. Lim, A.H. Shaari, and S.K. Chen
- 679 Influence of Substrate Temperature on Structural and Thermoelectric Properties of Antimony Telluride Thin Films Fabricated by RF and DC Cosputtering
Tianbao Chen, Ping Fan, Zhuanghao Zheng, Dongping Zhang, Xingmin Cai, Guangxing Liang, and Zhaokun Cai
- 684 Effects of Zn/Mg Ratio on the Microstructure and Microwave Dielectric Properties of (Zn_{1-x}Mg_x)₂SiO₄ Ceramics
Lingxia Li, Yucui Wang, Wangsuo Xia, Xiaowei He, and Ping Zhang
- 689 Impedance Spectroscopy of Dielectric BaTi₅O₁₁ Film Prepared by Laser Chemical Vapor Deposition Method
Dongyun Guo, Takashi Goto, Chuanbin Wang, Qiang Shen, and Lianmeng Zhang
- 695 Synthesis and Characterization of In₂S₃ Thin Films Deposited by Chemical Bath Deposition on Polyethylene Naphthalate Substrates
O.A. Castelo-González, H.C. Santacruz-Ortega, M.A. Quevedo-López, and M. Sotelo-Lerma
- 701 Low-Temperature Sintering and Electromagnetic Properties of NiCuZn/CaTiO₃ Composites
Haibo Yang, Yanyan Yang, Ying Lin, Jianfeng Zhu, and Fen Wang
- 706 Thermomechanical Reliability Study of Benzocyclobutene Film in Wafer-Level Chip-Size Package
K.-O. Lee
- 712 Microstructure Evolution and Defect Formation in Cu Through-Silicon Vias (TSVs) During Thermal Annealing
Hae-A-Seul Shin, Byoung-Joon Kim, Ju-Heon Kim, Sung-Hwan Hwang, Arief Suriadi Budiman, Ho-Young Son, Kwang-Yoo Byun, Nobumichi Tamura, Martin Kunz, Dong-Ik Kim, and Young-Chang Joo
- 720 Low-Resistance Cu-Sn Electroplated-Evaporated Microbumps for 3D Chip Stacking
M. Murugesan, Y. Ohara, T. Fukushima, T. Tanaka, and M. Koyanagi
- 730 Electromigration-Induced Interfacial Reactions in Cu/Sn/Electroless Ni-P Solder Interconnects
M.L. Huang, S.M. Zhou, and L.D. Chen
- 741 Surface Morphology of Sn-Rich Solder Interconnects After Electrical Loading
Q.S. Zhu, H.Y. Liu, Z.G. Wang, and J.K. Shang

- 748 Observations of IMC Formation for Au Wire Bonds to Al Pads
John DeLucca, John Osenbach, and Frank Baiocchi
- 757 Suppressing Sn-Patch Growth in Ti/Ni(V)/Cu Under Bump Metallization with Sn-Ag-Cu Solder After Reflow and Aging
Kai-Jheng Wang and Jenq-Gong Duh
- 763 Effect of Pd Thickness on the Interfacial Reaction and Shear Strength in Solder Joints Between Sn-3.0Ag-0.5Cu Solder and Electroless Nickel/Electroless Palladium/Immersion Gold (ENEPIG) Surface Finish
Young Min Kim, Jin-Young Park, and Young-Ho Kim
- 774 Investigating the Effects of Lead Forming Parameters on Intermetallic Layer Crack Using the Finite-Element Method
J.W.C. Chin, C.K. Kok, M.M. Rajmohan, V.S.H. Yeo, and M.R. Said
- 782 High-Temperature Creep Behavior of Low-Temperature-Sintered Nano-Silver Paste Films
Gang Chen, Xiu-Hu Sun, Peng Nie, Yun-Hui Mei, Guo-Quan Lu, and Xu Chen
- 791 Effects of Surface Finishes and Current Stressing on Interfacial Reaction Characteristics of Sn-3.0Ag-0.5Cu Solder Bumps
Jae-Myeong Kim, Myeong-Hyeok Jeong, Sehoon Yoo, and Young-Bae Park
- 800 Erratum to: Constitutive Behavior of Mixed Sn-Pb/Sn-3.0Ag-0.5Cu Solder Alloys
J.P. Tucker, D.K. Chan, G. Subbarayan, and C.A. Handwerker