

**PAGE REGULAR ISSUE PAPERS**

- 1 Low-Temperature III-V Direct Wafer Bonding Surface Preparation Using a UV-Sulfur Process  
*Michael J. Jackson, Li-Min Chen, Ankit Kumar, Yang Yang, and Mark S. Goorsky*
- 6 Molecular Beam Epitaxial Regrowth of Antimonide-Based Semiconductors  
*Matthew Reason, Brian R. Bennett, Richard Magno, and J. Brad Boos*
- 11 Electrical Activation Studies of Silicon-Implanted  $\text{Al}_x\text{Ga}_{1-x}\text{N}$  with Aluminum Mole Fraction of 11% to 51%  
*E.A. Moore, Y.K. Yeo, Mee-Yi Ryu, and R.L. Hengehold*
- 17 High Power Factor of HPHT-Sintered  $\text{GeTe-AgSbTe}_2$  Alloys  
*Yongkwan Dong, Abds-Sami Malik, and Francis J. DiSalvo*
- 25 Thermal Conductivity of Indium-Graphene and Indium-Gallium-Graphene Composites  
*K. Jagannadham*
- 35 Microstructure, Electrical Properties, and Electrochemical Migration of a Directly Printed Ag Pattern  
*Bo-In Noh, Jeong-Won Yoon, Kwang-Seok Kim, Young-Chul Lee, and Seung-Boo Jung*
- 42 Reactive Sintering of Copper Nanoparticles Using Intense Pulsed Light for Printed Electronics  
*Jongeun Ryu, Hak-Sung Kim, and H. Thomas Hahn*
- 51 Effect of Isothermal Aging and Thermal Cycling on Interfacial IMC Growth and Fracture Behavior of SnAgCu/Cu Joints  
*Xiaoyan Li, Fenghui Li, Fu Guo, and Yaowu Shi*
- 62 Effects of Co Alloying and Size on Solidification and Interfacial Reactions in Sn-57 wt.%Bi-(Co)/Cu Couples  
*Yu-chih Huang and Sinn-wen Chen*
- 71 Effects of Ce Addition on the Microstructure and Mechanical Properties of Sn-58Bi Solder Joints  
*Tung-Han Chuang and Hsing-Fei Wu*
- 78 Investigation of a Biocompatible Polyurethane-Based Isotropically Conductive Adhesive for UHF RFID Tag Antennas  
*Cheng Yang, Matthew M.F. Yuen, Bo Gao, Yuhui Ma, and C.P. Wong*
- 85 Fabrication and Characterization of  $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3\text{-Pb}(\text{Nb}_{1/3}\text{Zn}_{2/3})\text{O}_3$  Thin Films on Cantilever Stacks  
*E. Fuentes-Fernandez, W. Debray-Mechatly, M.A. Quevedo-Lopez, B. Gnade, A. Rajasekaran, A. Hande, P. Shah, and H.N. Alshareef*
- 92 Complete Set of Material Constants of (011)-Poled Rhombohedral Single-Crystal  $0.25\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.47\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.28\text{PbTiO}_3$   
*Yaoyao Zhang, Da'an Liu, Qinhui Zhang, Wei Wang, Bo Ren, Xiangyong Zhao, and Haosu Luo*
- 97 Study of Spectroscopy and Microstructure in Nanocrystalline Cr-Doped Fibers Grown by the Drawing-Tower Technique  
*Yi-Chung Huang, Yen-Sheng Lin, Jau-Sheng Wang, Wei-Lun Wang, Hung-Jen Wang, Sheng-Lung Huang, and Wood-Hi Cheng*

