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Reliability Evaluation, Simulation and Mechanical Analysis of Materials for Advanced Electronic Packaging

Guest Editor:

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Message from the Guest Editor

To overcome the limited operational speed for nanoscaled transistors, scaling electronic devices to small and thin packaging and high-density arrangements has become the technological mainstream in designing versatile packaging architectures. Among these, a promising candidate is the advanced electronic package due to its excellent capability of heterogeneous integration. However. sequential reliability is troublesome concern given the complex packaging structure. To address this issue, advanced concepts and approaches of packaging reliability evaluation and mechanical analysis are developed to combine chips with different sizes, process nodes, and technologies. To achieve a high operating performance, reduced cost, reliable thermal management, and mechanical stability, assessment approaches to structural design, process flow, and material characteristics with regard to related reliability problems need to be developed through experimental/numerical and theoretical work.

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Prof. Dr. Chang-Chun Lee Guest Editor













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Message from the Editor-in-Chief

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