

Special Issue

Advanced Interconnect and Packaging

Message from the Guest Editor

Unlike transistors, the continuous downscaling of feature size in CMOS technology leads to a dramatic rise in interconnect resistivity and concomitant performance degradation. At nanoscale technology nodes, interconnect delay and reliability become the major bottleneck faced by modern integrated circuits. To resolve these interconnect problems, various emerging technologies including airgap, nanocarbon, optical, and through-silicon via (TSV) have been proposed and investigated. For example, by virtue of TSV technology, dies can be stacked to increase the integration density. More importantly, 3D integration and packaging also offer the most promising platform to implement “More-than-Moore” technologies, providing heterogenous materials and technologies on a single chip. This Special Issue seeks to showcase research papers, communications, and review articles on new developments in advanced interconnect and packaging, i.e., on the design, modeling, fabrication, and reliability assessment of emerging interconnect and packaging technologies. We look forward to receiving your submissions!

Guest Editor

Prof. Dr. Wensheng Zhao

School of Electronics and Information, Hangzhou Dianzi University,
Hangzhou 310018, China

Deadline for manuscript submissions

closed (20 October 2022)



Micromachines

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Impact Factor 3.0
CiteScore 6.0
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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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