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Advanced Thermal Management of Integrated Electronic Devices

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Deadline for manuscript submissions: closed (15 December 2023)



Message from the Guest Editors

Dear Colleagues,

With the rising power density and ever-shrinking size of electronic devices, thermal issues related to the high junction temperature of chips are becoming rather severe. Thermal management is essential for boosting both the performance and stability of integrated electronic devices.

This Special Issue is intended to present research papers and review articles that report on the recent advances in thermal management of integrated electronic devices, including thermal materials, heat dissipation system designs, thermal characterizations, thermal transport analysis, and thermal modeling. The topics covered in this Special Issue include, but are not limited to:

- Emerging thermal interfacial materials
- Advanced thermal characterization techniques
- New concepts in thermal management of electronic devices
- Forced air and liquid cooling techniques
- Phase change materials
- Thermal modeling and simulations
- Thermal reliability analysis of integrated electronic devices
- Chip-level thermal management
- Liquid Metal and its system design
- Energy conversion and management

You are welcome to contribute!!!



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Message from the Editor-in-Chief

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