Special Issue

Heat Management in Microdevices

Message from the Guest Editor

Thermal management in micro/nanosystems is hailed as a revolutionary field for practical applications. According to Moore's law, the size of electronic devices and circuitry is decreasing, and their number keeps increasing. The resultant change on thermal management will challenge device performance, including measurement reliability and durability of material component stability, electric transports, and data communication. Discovering and understanding thermal properties in micro- and nanoscale devices and realizing an efficient performance of micro/nanosystems is fundamentally important to harnessing thermal management in the field of micro/nanoelectronics. This Special Issue will cover fundamental thermal transport theory and modeling of micro/nanosystems and elucidate how thermal management can improve device performance. Interdisciplinary topics in thermal science at the interaction of electrical engineering, mechanical engineering, materials science, and physics will be welcomed to accelerate the understanding of thermal management in micro/nanosystems.

Guest Editor

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