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Utilizing an electroosmotic micropump made of a porous glass frit, which produces a maximum pressure of 160 kPa and flow rate of 7 ml min⁻¹, and microchannel heat exchangers, the cooling system can remove 38 W with a pump power of 2 W. Cooligy Inc. has developed a closed-loop liquid cooling system based on this electroosmotic pumping ...

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This study aims to characterize experimentally the heat transfer in micro-milled multi-microchannels copper heat sinks operating with flow boiling, in the attempt to contribute to the development of novel and high heat flux thermal management systems for power electronics. The working fluid was R-134a and the investigation was conducted for a nominal outlet saturation temperature of 30 °C ...

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Koc has published three peer-reviewed journal articles, five peer-reviewed conference articles and a book chapter and has contributed to numerous research proposals. His research has been funded by the National Science Foundation, the California Department of

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