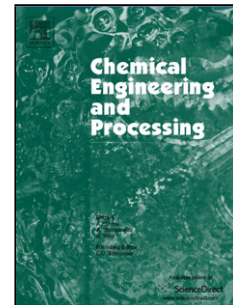


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Performance enhancement of straight and wavy miniature heat sinks using pin-fin interruptions and nanofluids

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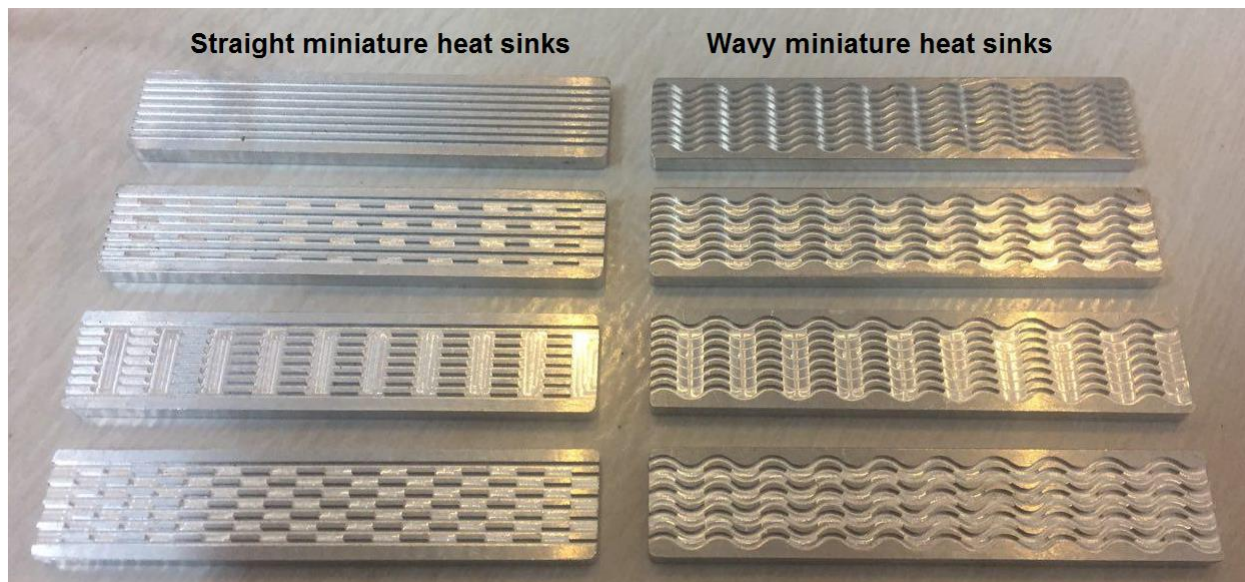
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Graphical Abstract



Highlights

- ► Effects of pin-fin interruptions in straight and wavy MHSs are studied.
- ► Water and Al₂O₃/water nanofluid are considered as coolants.
- ► Interrupted MHSs have better hydrothermal performance.
- ► Al₂O₃/water nanofluid improves overall hydrothermal performance of MHSs.

Abstract

The current study reports both experimental and numerical studies on flow and heat transfer characteristics of straight and wavy miniature heat sinks (MHSs). Effects of different interruptions

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