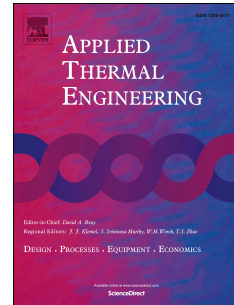


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Modelling and experimental study of vapor phase-diffusion driven sessile drop evaporation

Yunyun Wu , Xiaosong Zhang , Xuelai Zhang , Muthoka Munyalo



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Highlights

- Partial differential equations were established in order to describe the droplet vaporization.
- The model shows great coherency with experimental results of our predecessors.
- Unsaturated condition leads to a supercooling degree of the droplet about -1°C .
- Temperature of vapor chamber has little effect on the decrease of the droplet temperature.

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