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Numerical investigation of pool boiling on a staggered tube bundle for different working fluids

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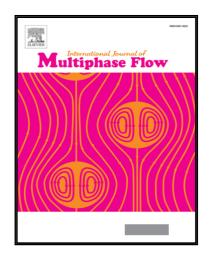
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Research highlights:

- Pool boiling fluid flow and heat transfer was numerically investigated on a staggered tube bundle.
- Heat transfer coefficient increased with increase of the saturation temperature and pressure.
- HTC along the bundle increased when the heat flux was below 60 kW/m² for water.
- Bundle effect vanished at high values of heat flux.
- At the same saturation temperature, ethanol had a better thermal performance compared to water.

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