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Investigation of a Serpentine Micro-Pin Fin Heat and Mass Exchanger for Absorption Systems

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**RESEARCH HIGHLIGHTS**

- Serpentine micro-pin fin absorber developed for ammonia-water absorption
- Micro-pin fins of diameter 580  $\mu\text{m}$  and depth 400  $\mu\text{m}$
- High-speed photography to investigate internal flow phenomena
- Measured apparent heat transfer coefficients of 150 – 1000  $\text{W m}^{-2} \text{K}^{-1}$
- Physics based model developed with an AAD of 9.9%

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