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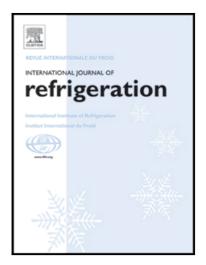
A Novel Adsorption Heat Pump Cycle: Cascaded Mass Recovery Cycle

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## ACCEPTED MANUSCRIPT

## Highlights

- A cascaded mass recovery cycle using multiple mass recovery process is proposed.
- Performance of AHP can be significantly improved by cascaded mass recovery cycle.
- Cascaded mass recovery cycle is suitable for strict conditions.
- Combined system of multi-stage and cascaded mass recovery cycle is efficient.

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