

# Accepted Manuscript

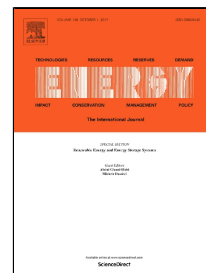
Performance of a vapor absorption heat transformer operating with ionic liquids and ammonia

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- Ionic liquids are green designer salts that are liquid at room temperature
- Heat transformers operating with  $\text{NH}_3$ -ionic liquids as refrigerant-absorbent studied
- An exergy efficiency of about 50% can be achieved at a GTL of 30-35 K with IL- $\text{NH}_3$  combination
- Results show that IL- $\text{NH}_3$  working pairs can be considered as possible alternative to conventional fluids

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