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Thermodynamic properties and evaluation of the lithium nitrateimidazole IL-water ternary systems as new working fluids for a double-effect AHP cycle

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#### ACCEPTED MANUSCRIPT

### Highlights

- New working fluids were studied for a double-effect AHP cycle.
- The thermodynamic properties of the new working fluids were systematically measured.
- The COP based on LiNO<sub>3</sub>-IL-H<sub>2</sub>O is close to that based on LiNO<sub>3</sub>-H<sub>2</sub>O and LiBr-H<sub>2</sub>O.
- LiNO<sub>3</sub>-IL-H<sub>2</sub>O aids in solving the crystallization problem of LiNO<sub>3</sub>-H<sub>2</sub>O.
- Corrosion caused by LiBr-H<sub>2</sub>O is relieved by using LiNO<sub>3</sub>-[BMIM]Br-H<sub>2</sub>O.



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