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Non-aqueous lithium bromine battery of high energy density with carbon coated membrane

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**Highlights**

- The non-aqueous Li/Br battery shows high practical energy density  $232.6 \text{ Wh kg}^{-1}$ .
- The maximum power density of the Li/Br battery is  $29.1 \text{ mW cm}^{-2}$ .
- The non-aqueous electrolyte has a high solubility  $3.0 \text{ mol L}^{-1}$ .
- The static battery runs continuously over 1000 cycles at  $1.0 \text{ mA cm}^{-2}$ .
- The non-aqueous Li/Br flow battery is investigated tentatively at  $10 \text{ mA cm}^{-2}$ .

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