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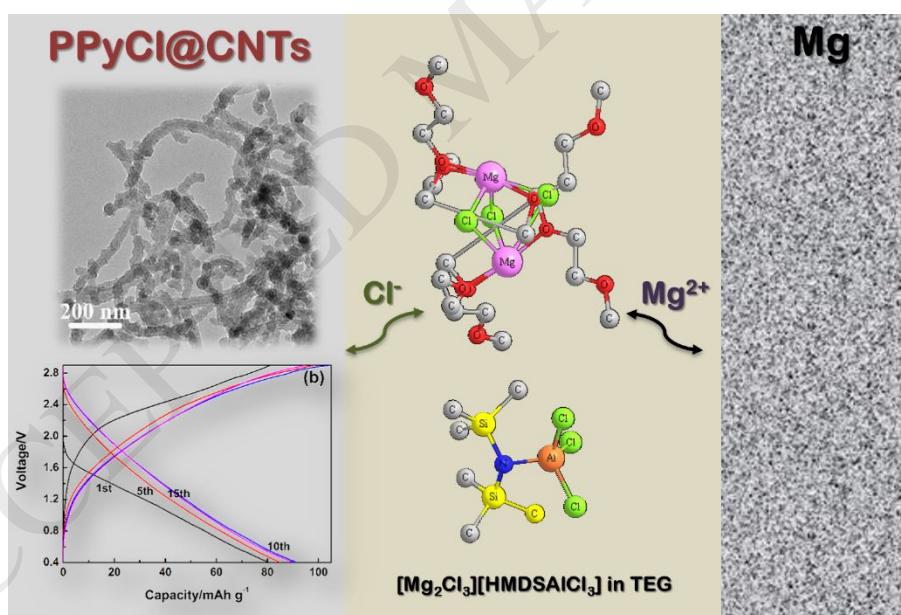
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### GRAPHICAL ABSTRACT



### Highlights

- Chloride ion-doped polypyrrole nanocomposite is firstly developed as new cathode for rechargeable magnesium battery.

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