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Title: Novel Polymer Li-ion Binder Carboxymethyl Cellulose Derivative Enhanced Electrochemical Performance for Li-ion Batteries

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1 Highlights

2 Novel water-soluble binder CMC-Li is applied in lithium-ion battery for the first
3 time.

4 CMC-Li ionize and increase the contents of freely moving lithium ions in
5 batteries.

6 The good electrochemical property using CMC-Li with high DS as a binder.

7 Three type of binders CMC-Li, CMC-Na, and PVDF are investigated for LFP.

8 CMC-Li can be the next generation cheap and green water binder for LFP
9 cathode.

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