## **Batteries & Supercaps**

## Supporting Information

## Glyoxal-Based Electrolytes in Combination with Fe<sub>2</sub>O<sub>3</sub>@C-Based Electrodes for Lithium-Ion Batteries

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Figure S 1 Capacity retention of the  $Fe_2O_3@C$  electrodes at different C-rates in the electrolytes TEG-2VC, TEG:PC-2VC and LP30 at 60 °C (a) and at RT (b).



Figure S 2 Cyclic voltammograms of  $Fe_2O_3@C$  electrodes in the electrolytes TEG-2VC (a, b), TEG:PC-2VC (c, d) and LP30 (e, f) at RT and at 60 °C.