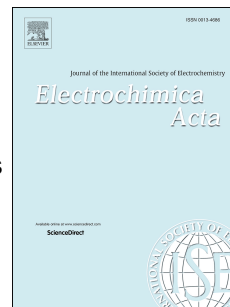


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A facile in-situ polymerization strategy towards polyimide/carbon black composites as high performance lithium ion battery cathodes

Guangfeng Zhang, Zhixiao Xu, Ping Liu, Yuezeng Su, Tao Huang, Ruili Liu, Xin Xi, Dongqing Wu



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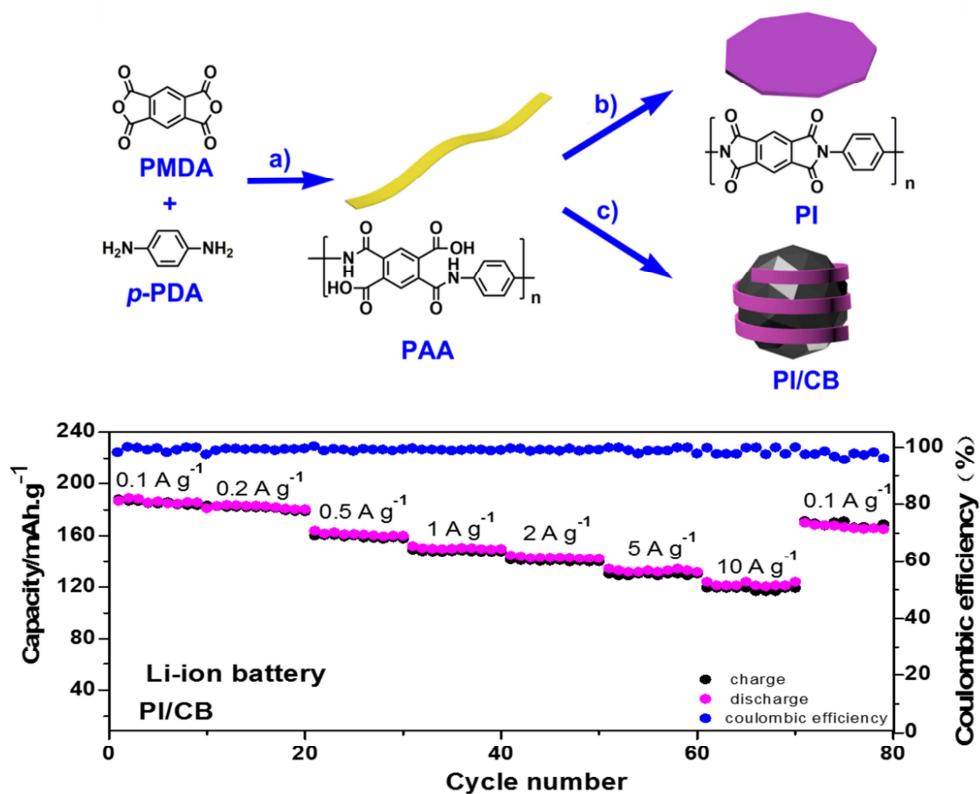
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A Facile In-Situ Polymerization Strategy towards Polyimide/Carbon Black Composites as High Performance Lithium Ion Battery Cathodes



An in-situ polymerization strategy is utilized to fabricate the composites of polyimide and carbon black (PI/CBs) by the condensation of 1,2,4,5-benzenetetracarboxylic anhydride and *p*-phenylenediamine with the presence of carbon black. As the cathode material in LIBs, the PI/CB composite manifests an extraordinary capacity of 182 mAh g⁻¹ at 0.1 A g⁻¹, which can be retained as 116 m Ah g⁻¹ even at 10 A g⁻¹.

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