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Title: A highly active biomass-derived electrode for all vanadium redox flow batteries

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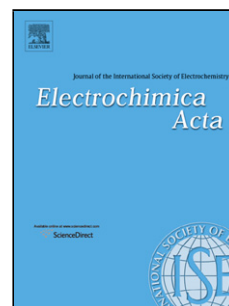
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Highlights

1. Cotton-derived electrode was synthesized *via* a facile pyrolysis method.
2. The carbonized cotton exhibited high surface area and good catalytic activity.
3. The battery with CC electrode showed lower polarization and higher efficiency.
4. The battery with CC electrode presented better rate capability.

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