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Highlight

- Hybrid of carbon nanotubes coated porous carbon has been successfully prepared.
- The ORR activity of as-prepared catalyst is comparable with the commercial 20% Pt/C in alkaline medium.
- The hybrid material comprising of carbon nanotubes and porous carbon displays excellent longtime stability and strong tolerance against methanol.
- The synergistic effect between Fe₃C group and S dopants can promote the activity.

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