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In situ doping enables the multifunctionalization of templately synthesized polyaniline@cellulose nanocomposites

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Highlights

- In situ oxidative polymerization of polyaniline on bacterial cellulose template.
- In situ doping imparts PANI@BC aerogel excellent flame retardance and conductivity.
- PANI@BC hydrogel exhibited self-motion behavior under low voltage electric field.

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