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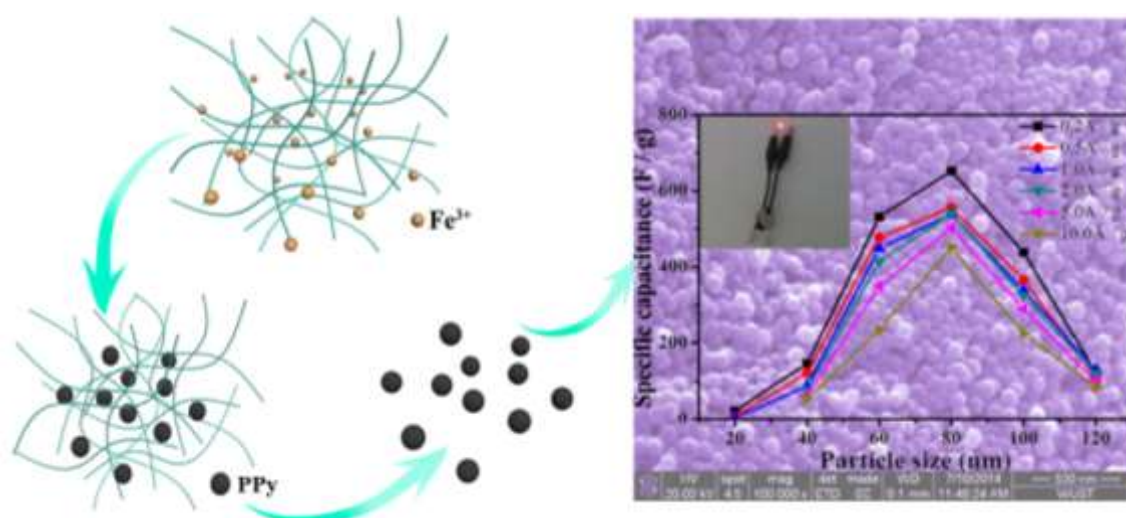
# Charge carrier related superior capacitance of the precisely size-controlled polypyrrole nanoparticles

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## Graphical abstract



## Highlights

- A facile process is developed to synthesize precisely-controlled PPy nanoparticles.
- A high specific capacitance of 652 F g<sup>-1</sup> is achieved at the middle size of 80 nm.
- The size-supercapacitance relationship is thoroughly studied.

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