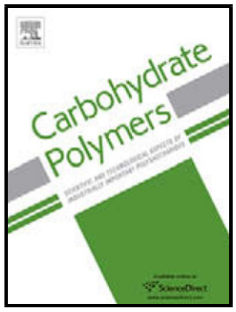

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Production and characterization of supercritical CO_2 dried chitosan nanoparticles as novel carrier device

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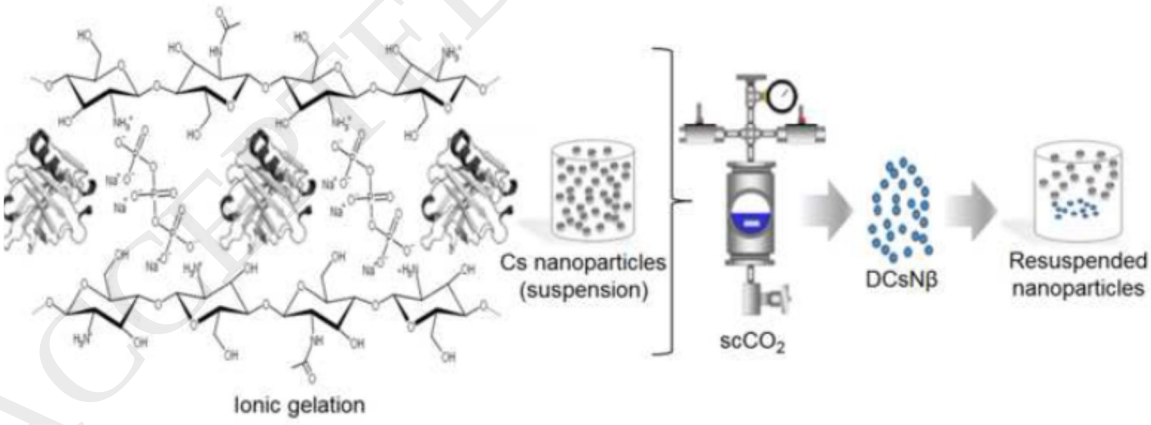
Graphical abstract



Highlights

- Protein-loaded dry chitosan nanoparticles were obtained by CO_2 supercritical drying
- The dried material has stable porous structure with remarkable surface properties
- Electrostatic interactions allow high loading capacity after the drying process