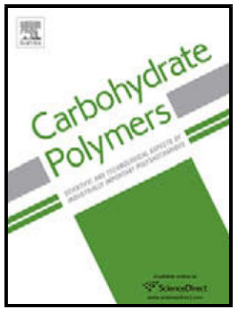

Title: In situ synthesis of new magnetite chitosan/carrageenan nanocomposites by electrostatic interactions for protein delivery applications

Author: Jie Long Xiaoqin Yu Enbo Xu Zhengzong Wu Xueming Xu Zhengyu Jin Aiquan Jiao

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Highlights

- Magnetite chitosan/carrageenan nanocomposites were prepared by in situ method.
- Magnetic response of nanocomposites to an applied magnetic field was enhanced.
- Mangnetite nanocomposites with excellent BSA adsorption capacity were obtained.
- BSA loaded magnetite nanocomposites released in simulated intestinal medium.