

Supporting information

Construction and Evaluation of Iron Delivery System by Ultra-small Nanoparticles from Roast Sturgeon (*Acipenser schrenckii*)

Yukun Song^{abc}, Kangjing Liu^{abc}, Wentao Su^{abc} Shuai Hou^{abc} Tongtong Che^{abc} and Mingqian Tan^{abc*}

^aSchool of Food Science and Technology, Dalian Polytechnic University, Dalian 116034, Liaoning, People's Republic of China

^bNational Engineering Research Center of Seafood, Dalian 116034, Liaoning, People's Republic of China

^cEngineering Research Center of Seafood of Ministry of Education of China, Dalian 116034, Liaoning, People's Republic of China

**Corresponding authors. Mingqian Tan, Tel: +86-411-86318657, E-mail: mqtan@dlpu.edu.cn ORCID: 0000-0002-7535-0035*

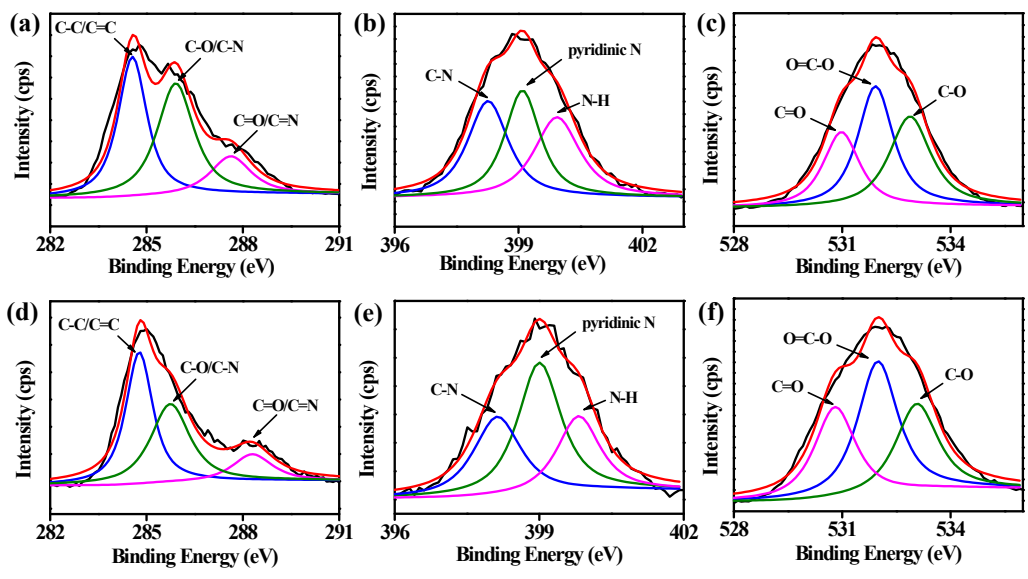


Fig. S1 High-resolution C_{1s} (a) N_{1s} (b) and O_{1s} (c) XPS spectra of FNs, and high-resolution C_{1s} (d) N_{1s} (e) and O_{1s} (f) XPS spectra of FN-Fe(II).

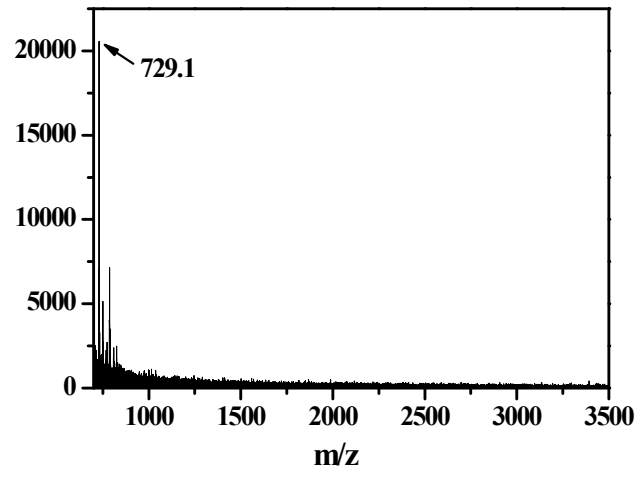


Fig. S2 MALDI-TOF-MS spectrum of FNs extracted from roasted sturgeon.

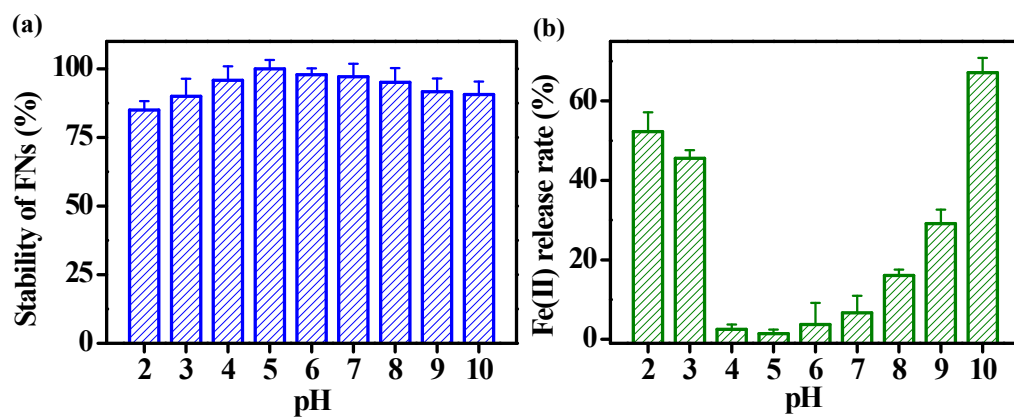


Fig. S3 The stability of FNs (a) and Fe(II) release rate of FN-Fe(II) (b) in different pH solution.