

Supporting Information for

**One-step reactivity-driven synthesis of core–shell
structured electrically conducting particles for
biomedical applications**

Jifu Mao and Ze Zhang*

Centre de recherche du CHU de Québec, Département de chirurgie, Faculté de médecine,
Université Laval, Québec (QC), Canada

Correspondence to: Ze Zhang

Centre de recherche Hôpital Saint-François d'Assise, CHU, 10 rue de l'Espinay,
Local E00-177, Québec (QC), G1L 3L5, Canada.

E-mail: Ze.Zhang@chg.ulaval.ca

Tel: (418) 525-4416

Fax: (418) 525-4372

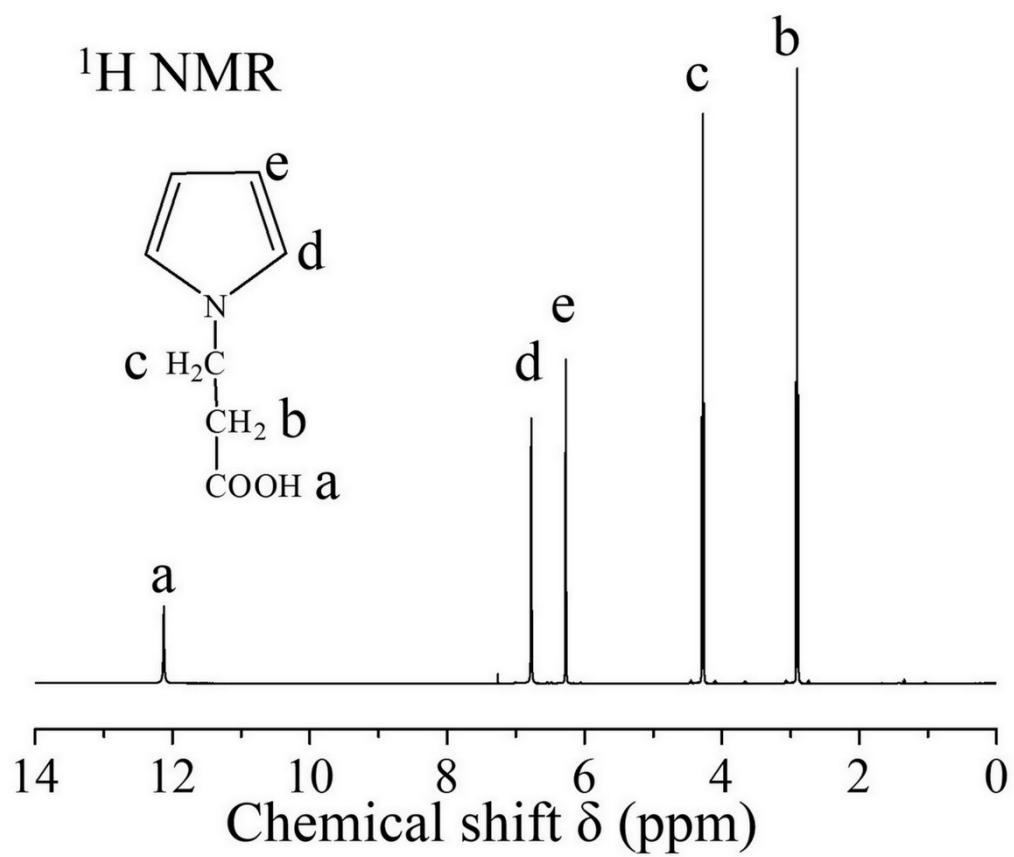


Figure S1 ¹H NMR (400 MHz, CDCl₃) result of 1-(2-Carboxyethyl)pyrrole.

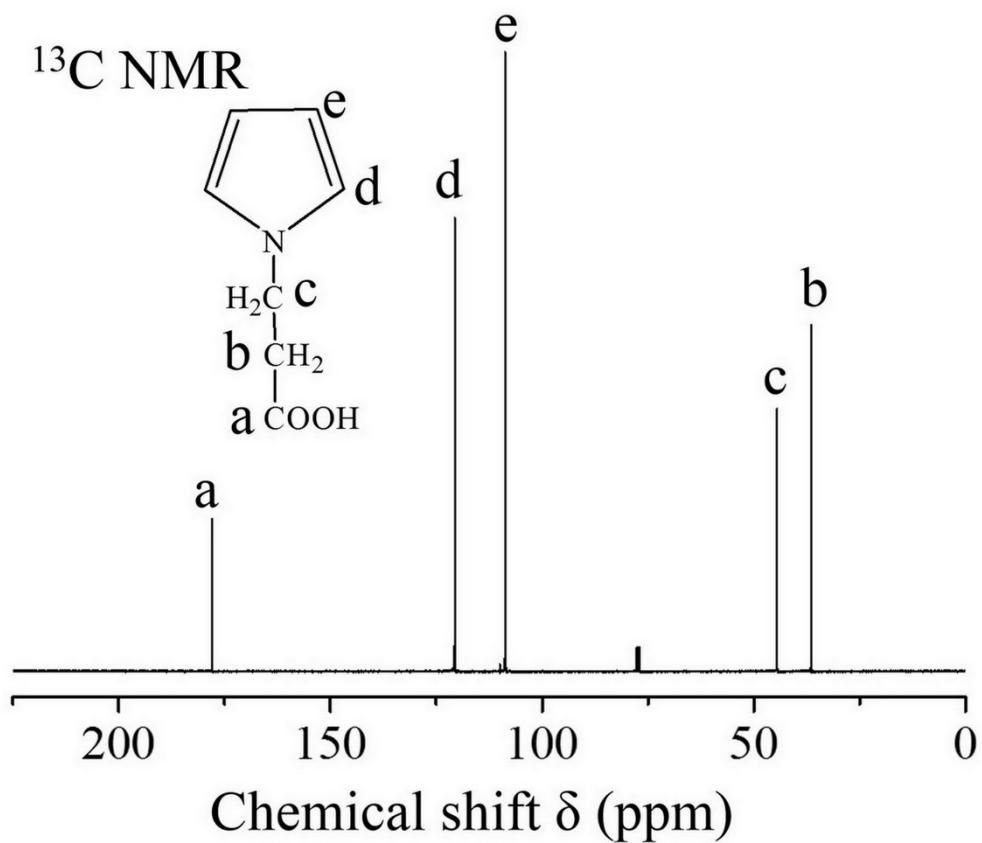


Figure S2 ¹³C NMR (100 MHz, CDCl₃) result of 1-(2-Carboxyethyl)pyrrole.

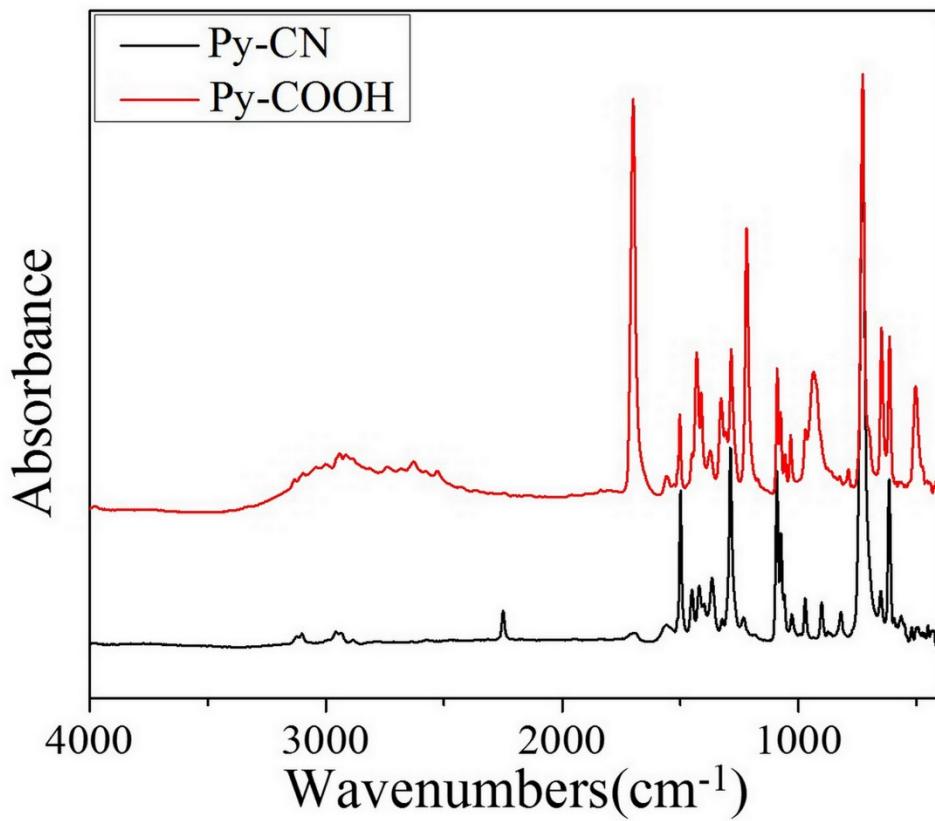


Figure S3 FTIR spectra of 1-(2-Carboxyethyl)pyrrole and 1-(2-cyanoethyl)pyrrole.

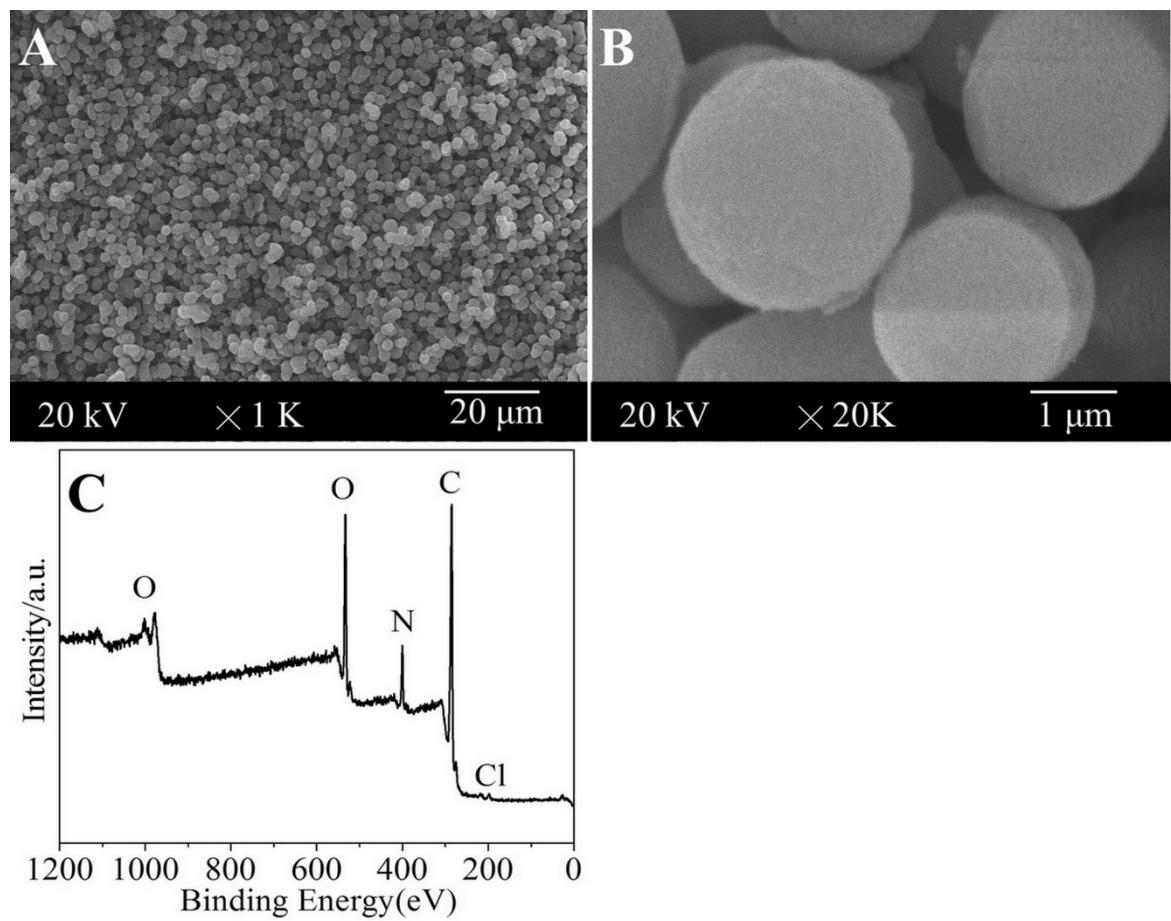


Figure S4 SEM photomicrographs and XPS spectra of PPy-COOH polymer obtained from filtrate of reaction for 12h: (A-B) SEM photos, (C) Full XPS spectra.