**Supporting Information**

# Dopamine Assisted One-Step Pyrolysis of Glucose for the Preparation of Porous Carbon with A High Surface Area

**Hanbo Xiao †, Cheng-an Tao *,†, Yujiao Li, Xianzhe Chen, Jian Huang and Jianfang Wang ***

College of Liberal Arts and Science, National University of Defense Technology, Changsha 410073, China; xiaohanbo16@nudt.edu.cn (H.X.); liyujiao@nudt.edu.cn (Y.L.); chenxianzhe13@nudt.edu.cn (X.C.); huangjian2015@nudt.edu.cn (J.H.)

† These authors contribute to this work equally.

* Correspondences: tca02@mails.thu.edu.cn (C.T.); wangjianfang@nudt.edu.cn (J.W.); Tel.: +86-731-8457-4241 (J.W.)

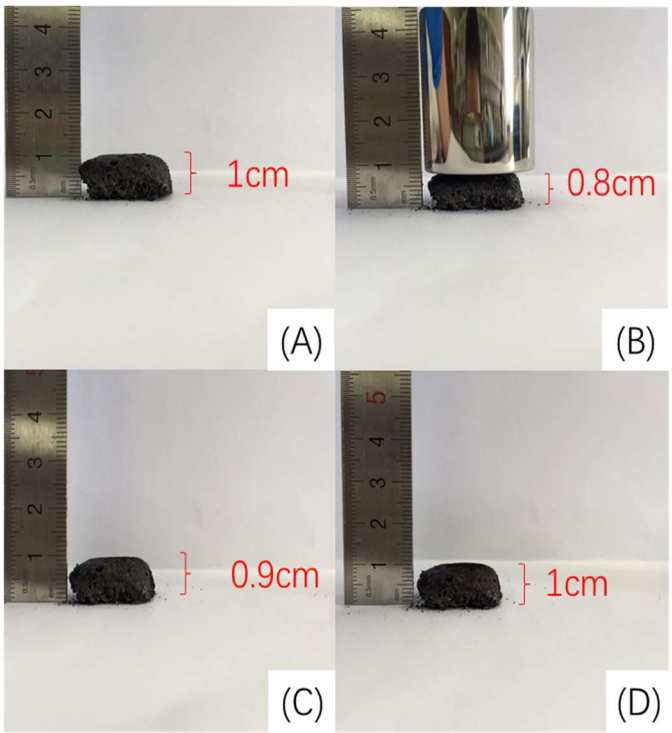


**Figure S1.** Compression-recovery elasticity of PC-5. (**A**) Initial state of PC-5, (**B**) Pressed with a 200g weight, (**C**) In recovery, and (**D**) After the recovery.

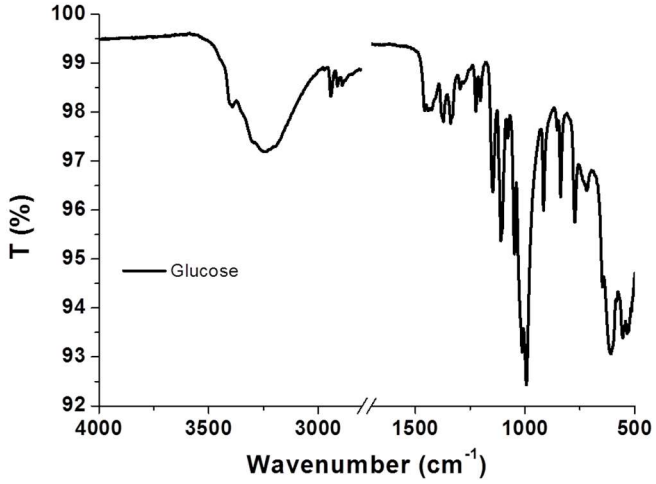


**Figure S2.** FT-IR (Fourier transform infrared) spectrum of glucose.

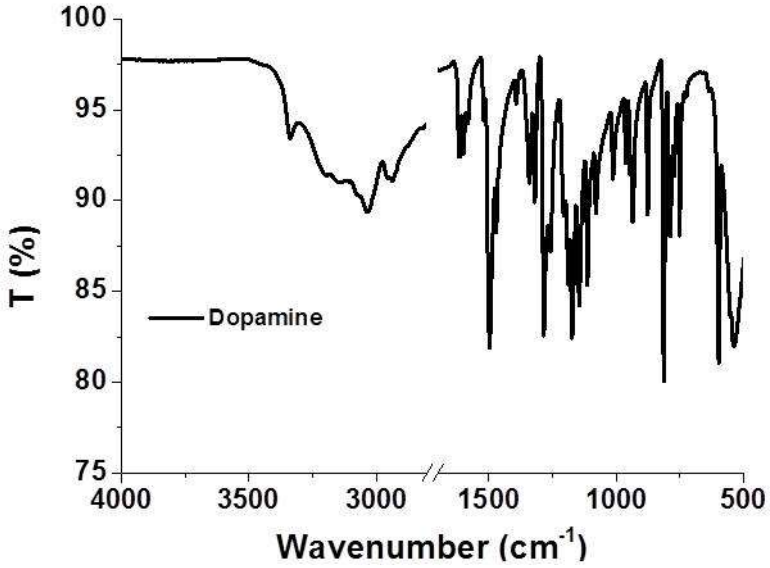


**Figure S3.** FT-IR (Fourier transform infrared) spectrum of dopamine.

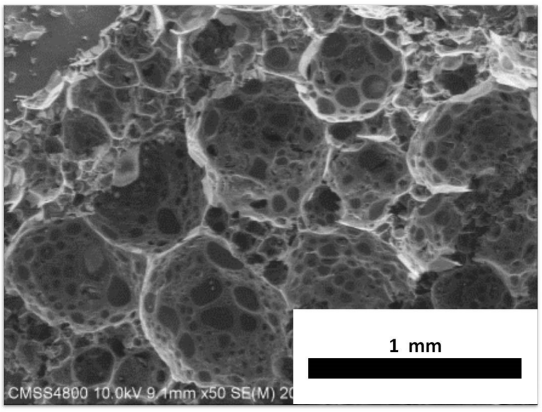


**Figure S4.** Scanning electron microscopy image of PC-5 (50×).

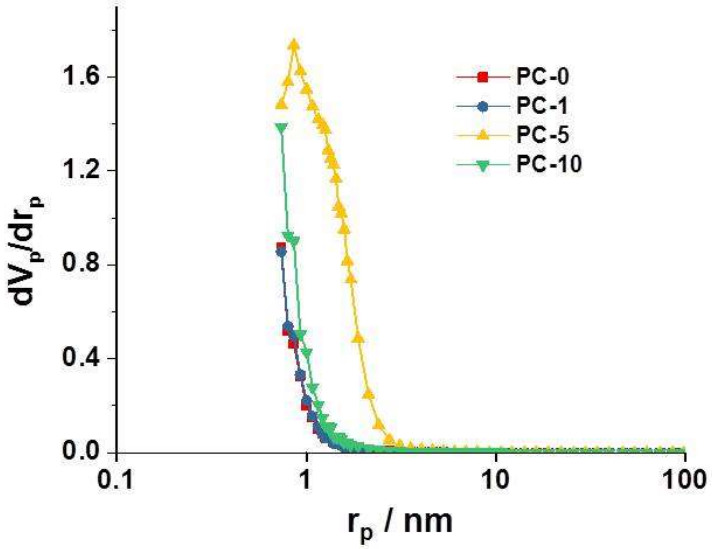


**Figure S5.** Barrett-Joyner-Halenda (BJH) analysis of porous carbon, (**A**) PC-0, (**B**) PC-1, (**C**) PC-5, (**D**) PC-10.

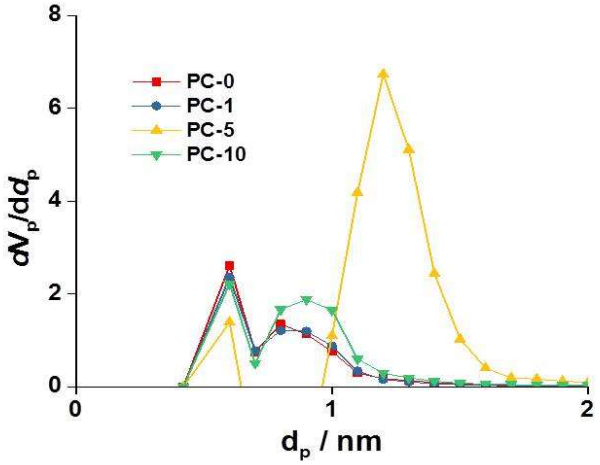


**Figure S6.** MP analysis of porous carbon, (**A**) PC-0, (**B**) PC-1, (**C**) PC-5, (**D**) PC-10.