Fluorescent carbonized polymer dots prepared from sodium alginate based on CEE effect

Jianxin Sun [1], Junke Yu [1], Zhenjie Jiang [1], Zhihui Zhao [1,*] and Yanzhi Xia [1,*]

1. State Key Laboratory of Bio-Fibers and Eco-Textiles, Shandong Collaborative Innovation Center of Marine Biobased Fibers and Ecological Textiles, Institute of Marine Biobased Materials, School of Material Science and Engineering, Qingdao University, Qingdao 266071, China; 2018025318@qdu.edu.cn (J.S.); 2017021033@qdu.edu.cn (J.Y.); 2018025301@qdu.edu.cn (Z.J.)

* Correspondence: zzh@qdu.edu.cn (Z.Z.); xiayz@qdu.edu.cn (Y.X.); Tel.: +86-532-85950962 (Z.Z.)

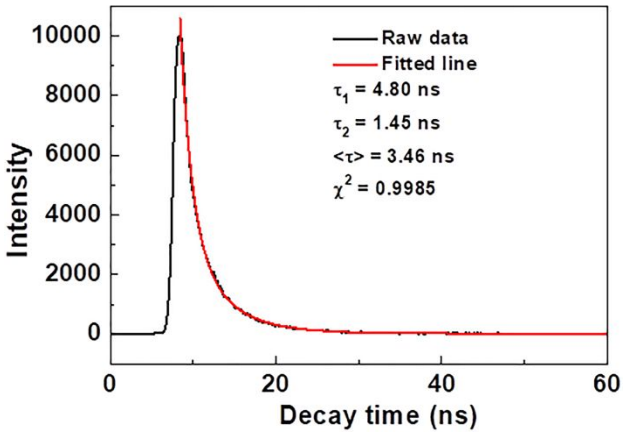

Figure S1. Fluorescent lifetime of SG-CPDs.

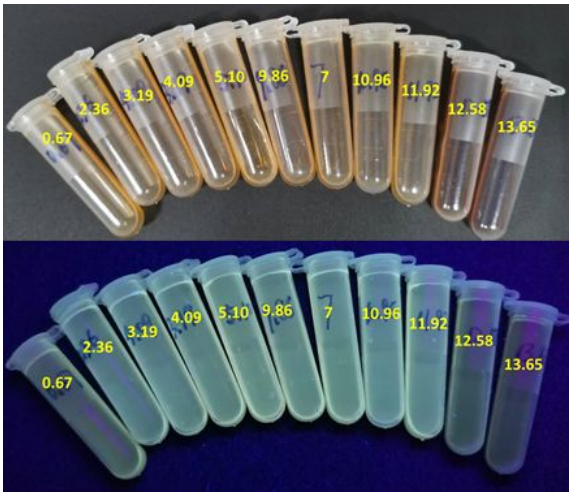

Figure S2. Photo of photoluminescence of SG-CPDs in different pH environments.

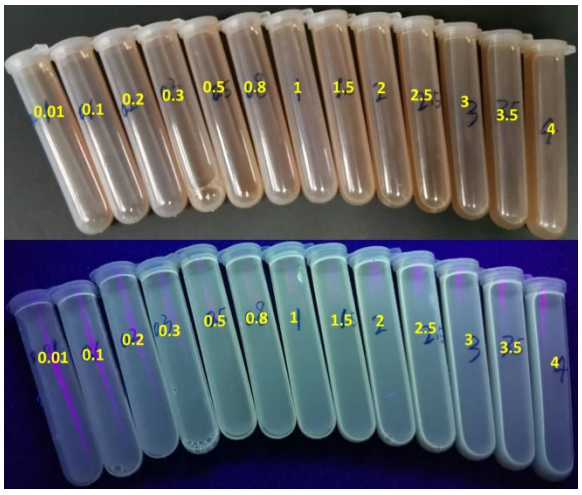

Figure S3. Photo of photoluminescence of SG-CPDs after adding calcium ion (mL).

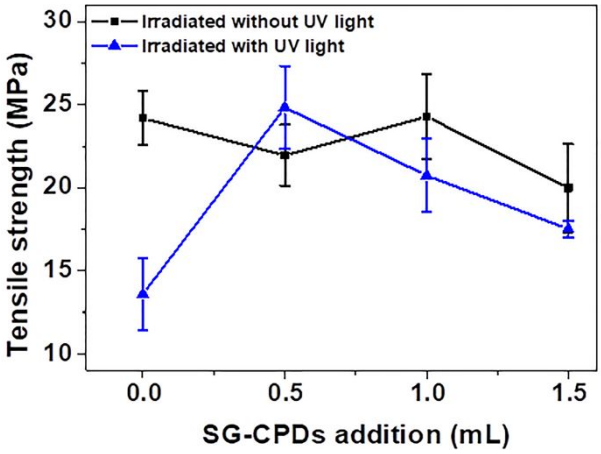

Figure S4. The relationship between the tensile strengths of the films and the amount of SG-CPDs in the film before and after irradiation.