

Supporting information

A Biomass Based Photonic Crystal Hydrogel Made of *Bletilla striata* Polysaccharide

Bo Sun, Wenxin Zhang, Yangyang Liu, Min Xue, Lili Qiu * and Zihui Meng *

School of Chemistry and Chemical Engineering, Beijing Institute of Technology, Beijing 100081, China

* Correspondence: qiulili@bit.edu.cn (L.Q.); mengzh@bit.edu.cn (Z.M.)



Figure S1. A photo of the *Bletilla striata*.

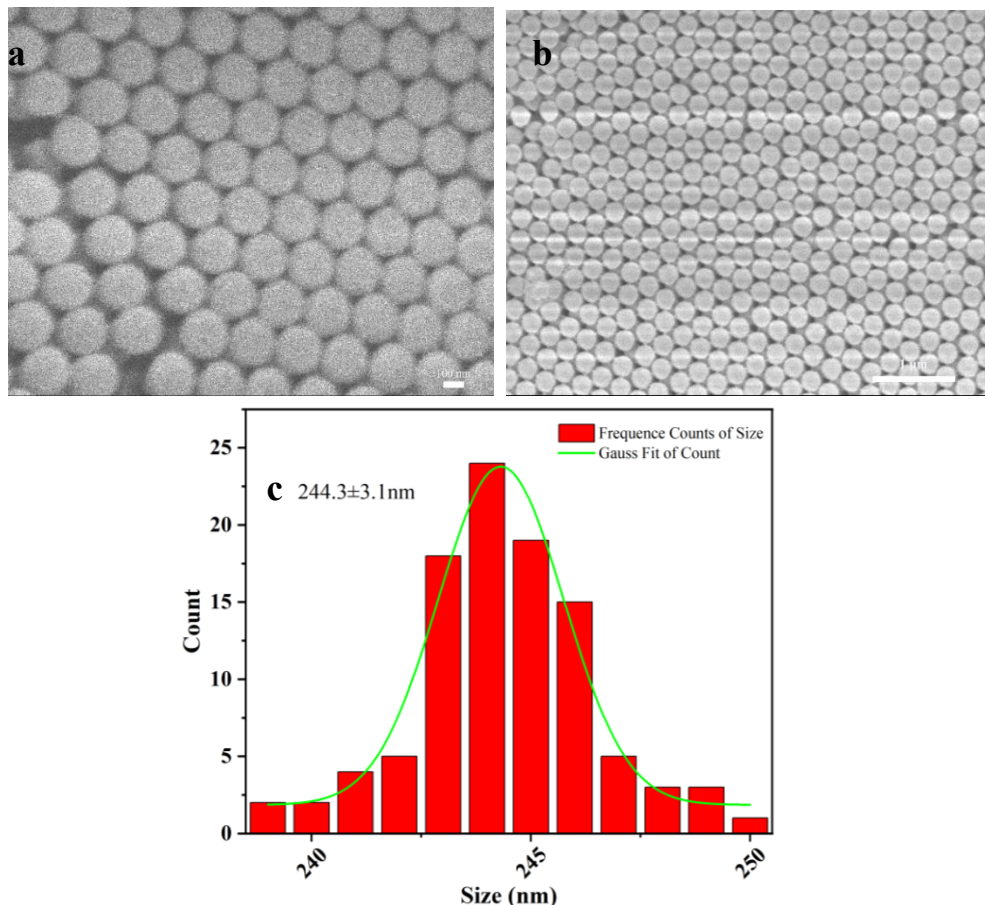


Figure S2. SEM images of PMMA nanospheres (a), 3D photonic crystals (b), and particle size distribution of PMMA nanospheres(c).

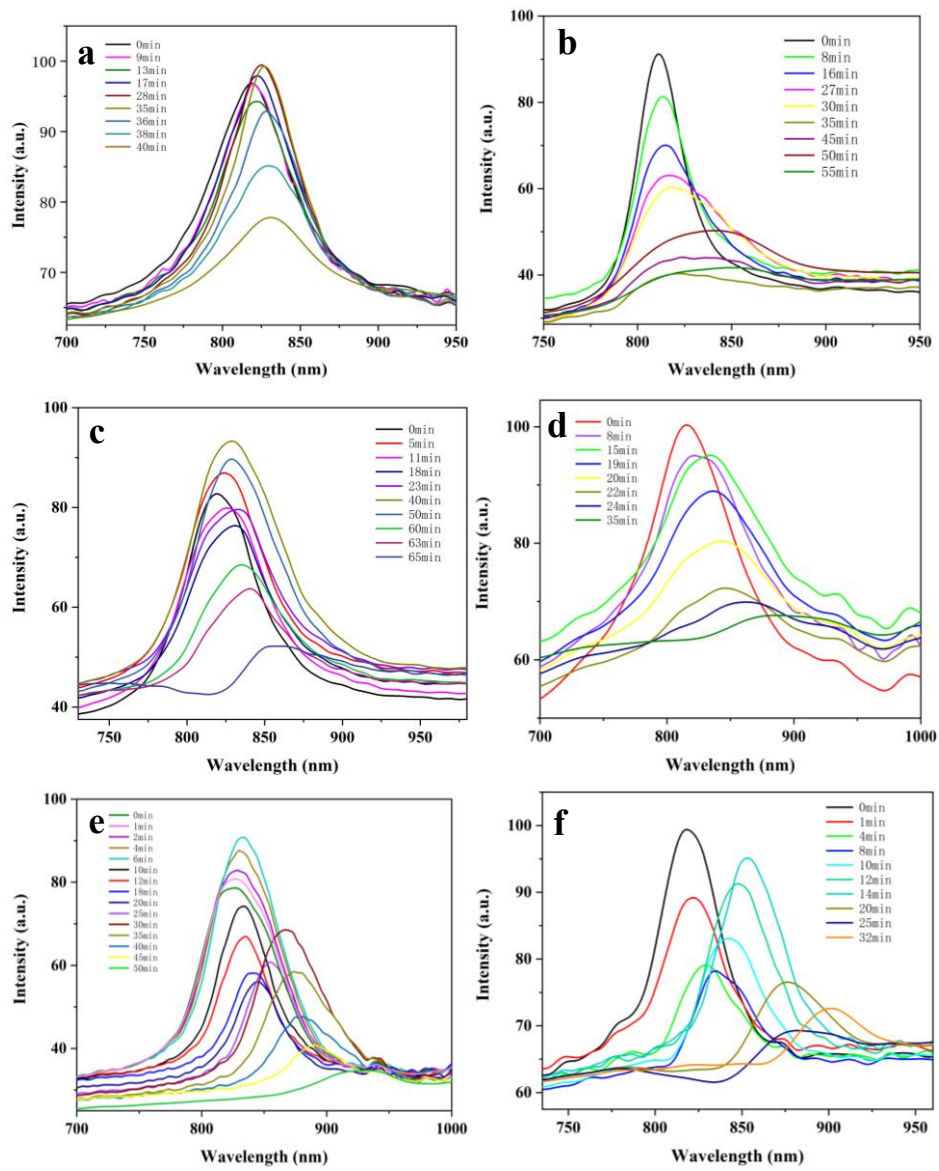


Figure S3. Response of PhCs hydrogels with different BSP contents(5% (a), 8% (b), 10% (c), 12% (d), 15% (e), 20% (f)) to 30% H_2O_2 .

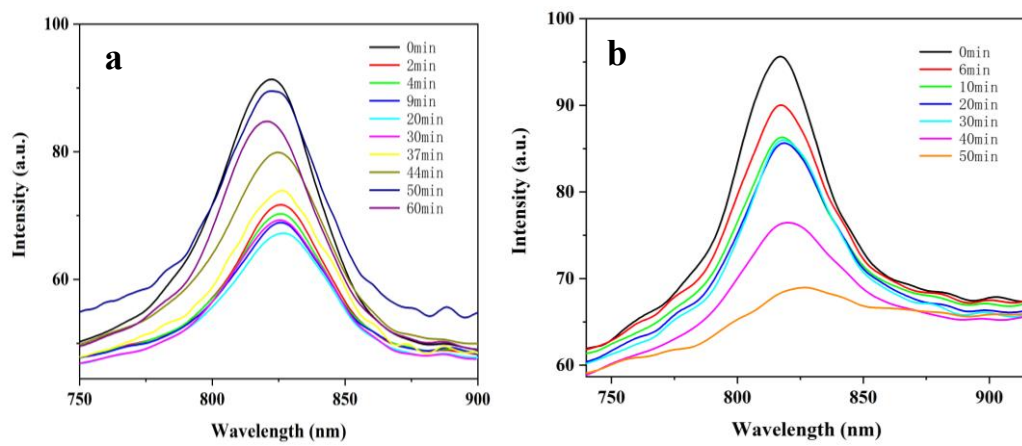


Figure S4. Control group (a) response of PhCs hydrogels with 15% BSP content to H_2O . (b) response of PhCs hydrogels with 0% BSP content to H_2O_2 .

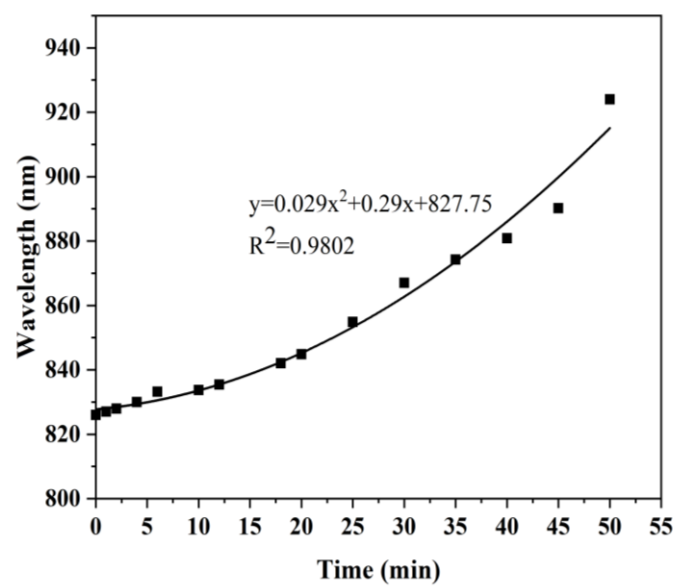


Figure S5. Reflection wavelength-time relationship of PhCs hydrogels with 15% BSP content.