

Article

N,S Co-Doped Carbon Nanofibers Derived from Bacterial Cellulose/Poly(Methylene blue) Hybrids: Efficient Electrocatalyst for Oxygen Reduction Reaction

Jing Liu ¹, Yi-Gang Ji ², Bin Qiao ¹, Fengqi Zhao ³, Hongxu Gao ³, Pei Chen ^{1,*}, Zhongwei An ¹, Xinbing Chen ¹ and Yu Chen ¹

¹ Key Laboratory of Applied Surface and Colloid Chemistry (MOE); Shaanxi Key Laboratory for Advanced Energy Devices; Shaanxi Engineering Lab for Advanced Energy Technology, School of Materials Science and Engineering, Shaanxi Normal University, Xi'an 710119, China; liujing551177@gmail.com (J.L.); qiaobin0229@gmail.com (B.Q.); gmeazw@163.com (Z.A.); chenxinbing@snnu.edu.cn (X.C.); ndchenyu@gmail.com (Y.C.)

² Jiangsu Key Laboratory of Biofunction Molecule, Department of Life Sciences and Chemistry, Jiangsu Second Normal University, Nanjing 210013, China; ygji@jssnu.edu.cn

³ National Key Laboratory of Science and Technology on Combustion and Explosion, Xi'an Modern Chemistry Research Institute, 168 East Zhangba Road, Xi'an 710065, China; zhaofqi@163.com (F.Z.); gordon888@163.com (H.G.)

* Correspondence: chenpei@snnu.edu.cn; Tel.: +86-029-8153-0719

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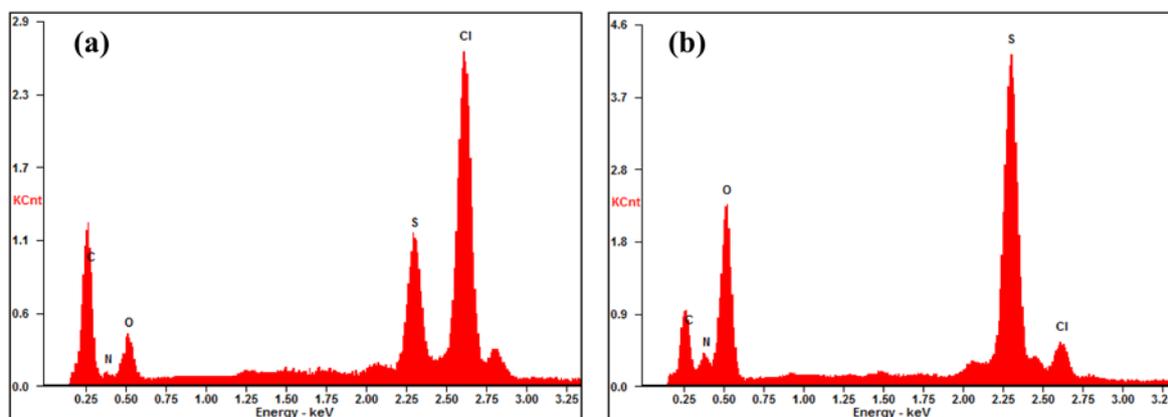


Figure S1. EDS spectra of (a) the BC/MB and (b) BC/PMB.

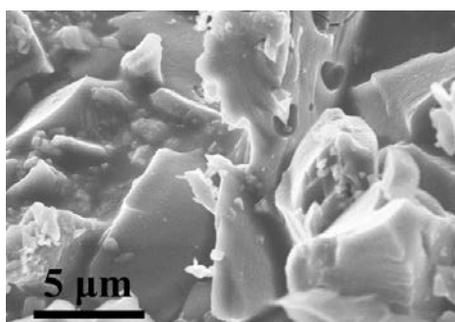


Figure S2. SEM image of the PMB.

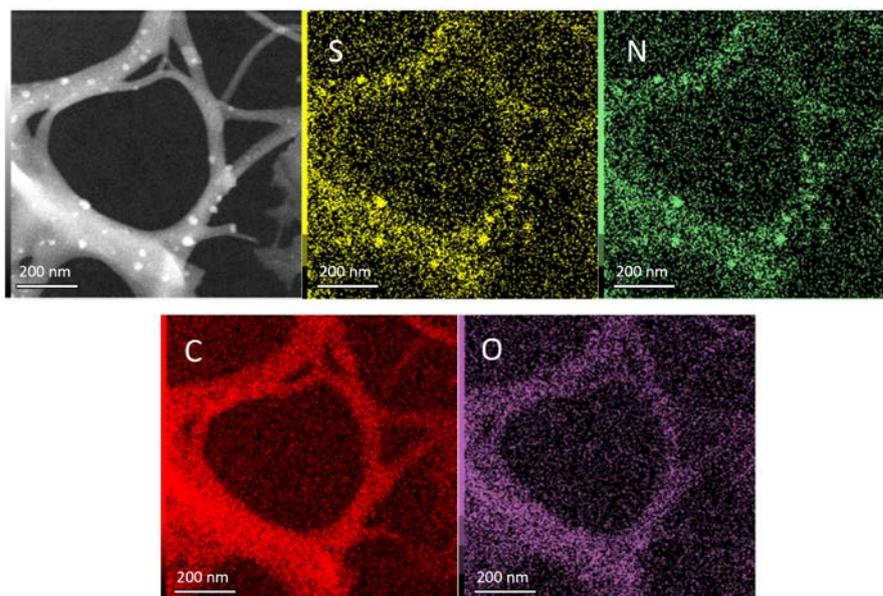


Figure S3. The dark field TEM image of the C-BC/MB and the corresponding element mapping images of S, N, O and C.

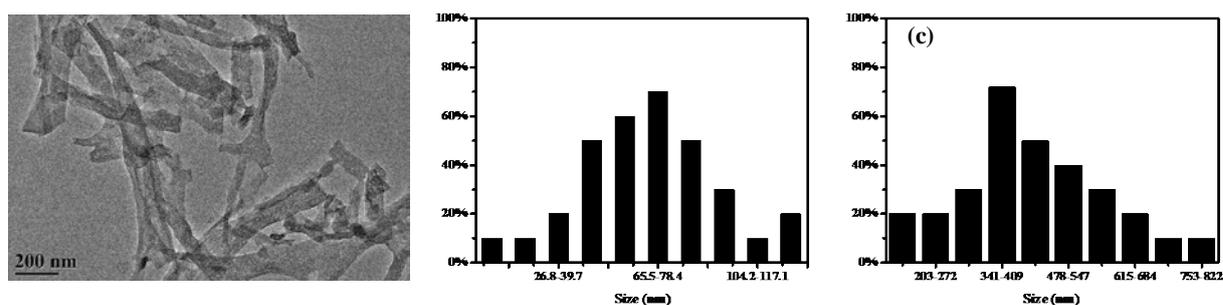


Figure S4. The diameter (b) and length (c) distribution of the nanofibers obtained from TEM image (a) of the sample N/S-CNF.

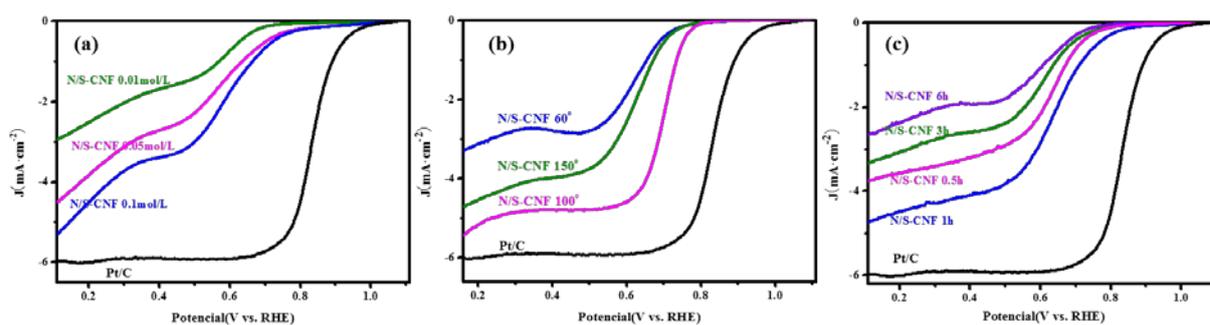


Figure S5. Linear sweep voltammetry curves of the samples of N/S-CNF prepared at different condition. Fixed the other experiment parameters, (a) the concentration of MB in the adsorption process of MB on BC was varied from 0.01 to 0.1 mol/L; (b) the heat treatment temperature in the adsorption process of MB on BC was varied from 60 to 150 °C; (c) the polymerization time of MB was varied from 0.5 to 6 h. All these linear sweep voltammetry curves were obtained from O₂-saturated 0.1 M KOH solution at scan rate of 10 mv/s and a rotation rate of 1600 rpm.