

## Supporting Information

### **Preparation of boron nitride nanosheet-coated carbon fibers and their enhanced antioxidant and microwave-absorbing properties**

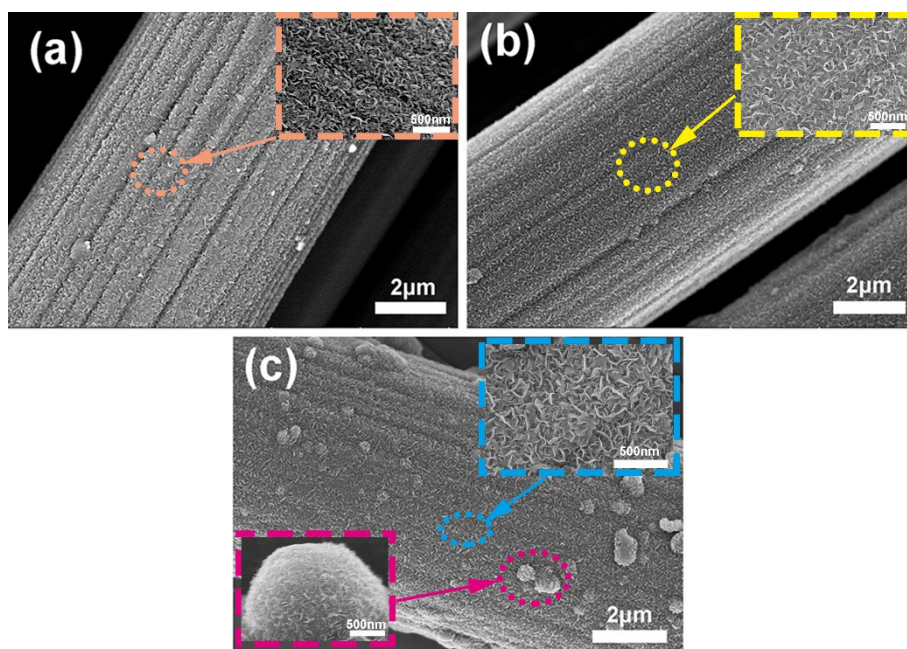
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In order to determine the repeatability of the experiments, we additionally conducted the experiments respecting the influence of reaction time on the formation of BN coating.

Fig. S1 shows the BN coating prepared with different reaction times. It can be seen that the thickness of BN coating increases with the increase of reaction time, as well the size (including thickness and length) of the BN nanosheets. However, if the reaction time is longer enough (e.g. 1.5 h), the BN nanosheets will be self-assembled into microparticles which are constructed by numerous nanosheets. This phenomenon is very similar to the results caused by the increase of reaction temperature which are discussed in the main text.



**Fig. S1** SEM images of BN coating prepared with different reaction times. (a) 0.5 h.  
(b) 1 h. (c) 1.5 h.