## **Supplementary Information**

## **One-pot Synthesis of Boron-doped Ordered Mesoporous Carbons as**

## **Efficient Electrocatalysts for Oxygen Reduction Reaction**

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Fig. S1 High-resolution B1s core-level XPS spectra of the a) B-C-1, b) B-C-3, c) B-C-4, d) B-C-5.

Catalyst	Onset potential	Half-wave potential	Electron	reference
			transfer	
			number	
B-C-2 <sup>a</sup>	-0.14 V vs. Ag/AgCl	-0.29 V vs. Ag/AgCl	3.71-	This work
			3.85	
Boron-Doped	~ -0.25 V vs. SCE	~-0.4 V vs SCE	2.5	[11]
CNTs (B <sub>3</sub> CNTs) <sup>b</sup>				
Boron-Doped	~-0.199 V vs. Ag/AgCl	~-0.264 V vs. Ag/AgCl	3.73	[12]
Carbon	(~ -0.005 V vs. NHE)	(~ -0.07 V vs. NHE)		
(BDC900)°				
Boron-Doped	-0.16 V vs Ag/AgCl	~ -0.4 V vs. Ag/AgCl	3.86-4.0	[21]
OMCs (hard				
template,				
BOMCs-2) <sup>d</sup>				
Boron-Doped	-0.085 V vs. SCE	~ -0.23 V vs. SCE	2.0-2.5	[23]
OMCs (B-OMC-				
1) <sup>e</sup>				

 Table S1
 The ORR activity comparison of B-C-2, B<sub>3</sub>CNTs, BDC900, BOMCs-2 and B-OMC-1.

Note: a, b, c, d and e were measured under 1600 rpm, 2500 rpm, 1600 rpm, 800 rpm and 1200 rpm, respectively.