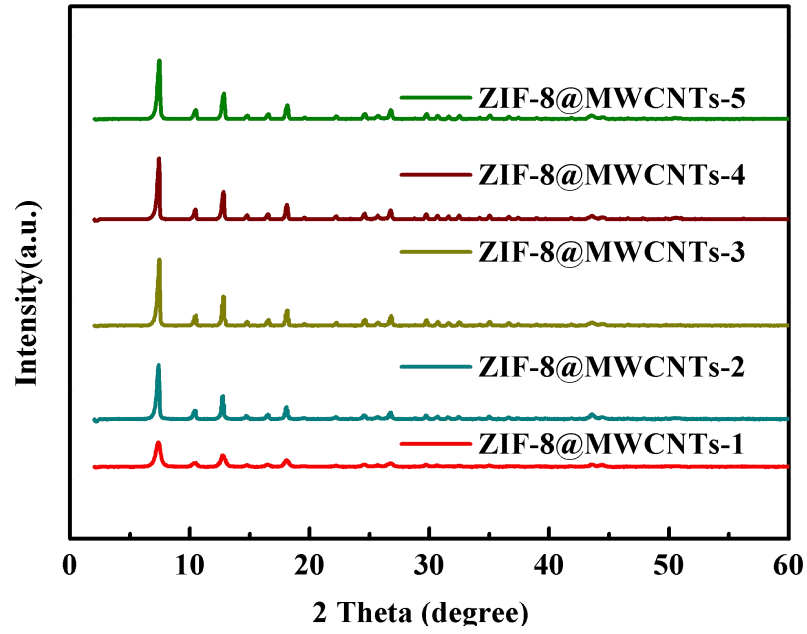
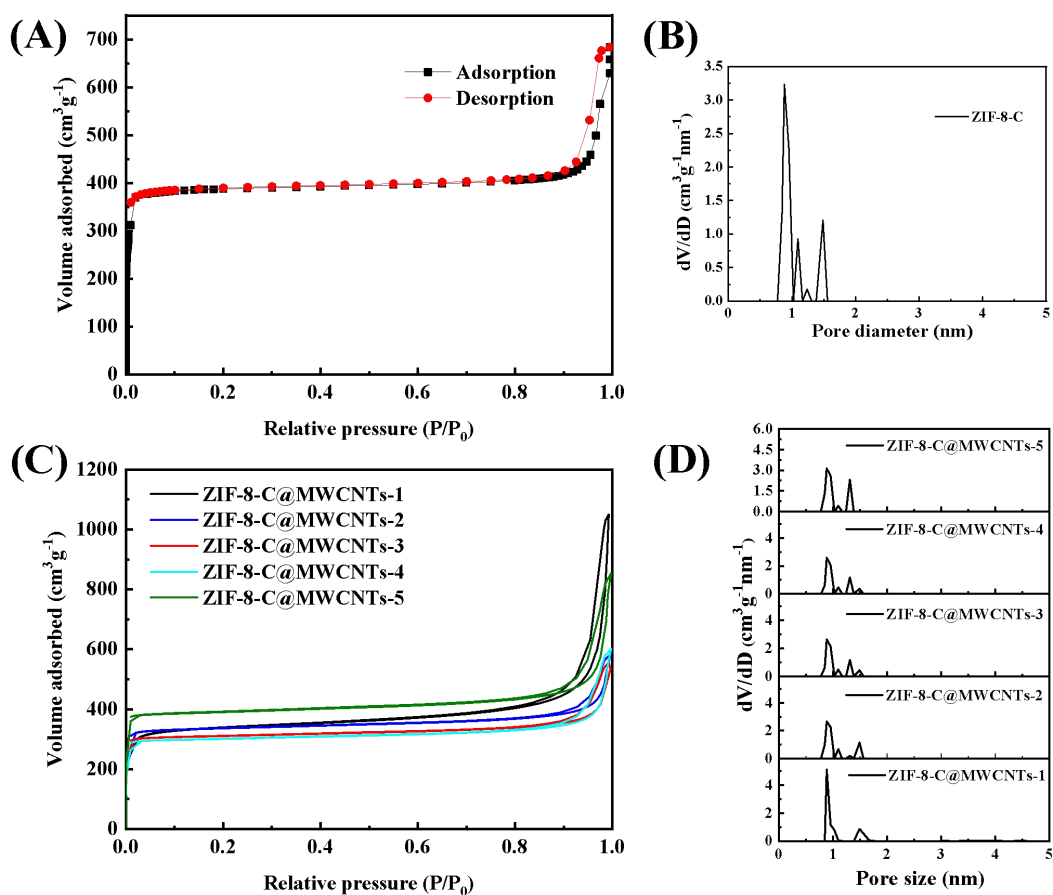


1 **Supplementary Material: Selenium confined in ZIF-8 derived porous**
2 **carbon@MWCNTs 3D networks: Tailoring reaction kinetics for high performance**
3 **lithium-selenium batteries**

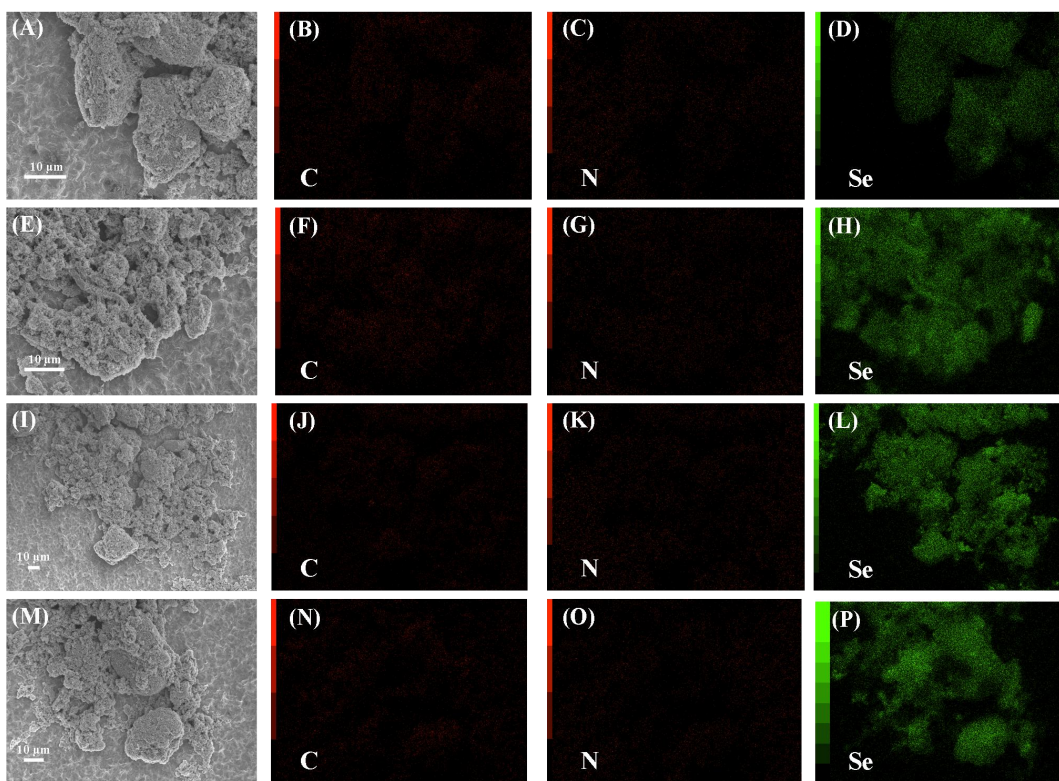
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6
7 **Supplementary Figure 1. XRD patterns of ZIF-8@MWCNTs-X**
8 **(X=1-5).**



9
 10 **Supplementary Figure 2.** (A) N_2 adsorption-desorption isotherms of ZIF-8-C and (B)
 11 its pore size distribution; (C) N_2 adsorption-desorption isotherms of
 12 ZIF-8-C@MWCNTs-X (X=1-5) and (D) the related pore size distributions.
 13



14

15 **Supplementary Figure 3.** (A) Se@ZIF-8-C@MWCNTs-2, the corresponding EDX
 16 mapping images of (B) C, (C) N and (D) Se; (E) Se@ZIF-8-C@MWCNTs-3, the
 17 corresponding EDX mapping images of (F) C, (G) N and (H) Se; (I)
 18 Se@ZIF-8-C@MWCNTs-4, the corresponding EDX mapping images of (J) C, (K) N
 19 and (L) Se; (M) Se@ZIF-8-C@MWCNTs-5, the corresponding EDX mapping images
 20 of (N) C, (O) N and (P) Se.

21

22 **Supplementary Table 1. The detailed BET surface areas and pore volumes of**
 23 **ZIF-8-C and ZIF-8-C@MWCNTs-X (X=1-5).**

Samples	ZIF-8-C	ZIF-8-C	ZIF-8-C	ZIF-8-C	ZIF-8-C	
	ZIF-8-C	@MWC	@MWC	@MWC	@MWC	
		NTs-1	NTs-2	NTs-3	NTs-4	Ts-5
Surface						
area	1342	1119	1105	1020	989	1283
(m ² g ⁻¹)						
Pore						
volume	1.58	1.55	0.90	0.86	0.93	1.32
(cm ³ g ⁻¹)						

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