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Fig.S4 TEM image of OVTNW/NGA























Table S1. b values of the power equation							
sample	Peak I	Peak II	Peak III				
S-OVTNW/NGA	0.63	0.45	0.71				
S-TNW/NGA	0.56	0.41	0.63				
S-NGA	0.54	0.40	0.57				

Table S2 Comparison of the fabricated battery performance with other TiO ₂ -based materials										
	Sulfurl oading	Current	Initial	Reversible	Decay Rate	Cvcle	Ref			
Electrodes	$(mg cm^{-2})$	Density	capacity	Capacity	(per cycle%)	number				
		(mA cm ⁻²)	(mAh g ¹)	(mAh g ⁻¹)	(1					
S-OVTNW/NGA	1.5	0.1	1370	900	0.15	100	This			
							work			
TiO@G-S	1	2	831	455	0.226	200	[2]			
TiO@C-HS/S	1.5	0.2	1190	750	0.074	500	[3]			
S@TiN-NP	1.5	1	1163	1036	0.218	50	[4]			
C@TiN-S	1.1	1	-	741	-	150	[5]			
OVsTiO _{2x} @C/S	1.6	1	1086	792	0.014	2000	[6]			