Supplementary Information

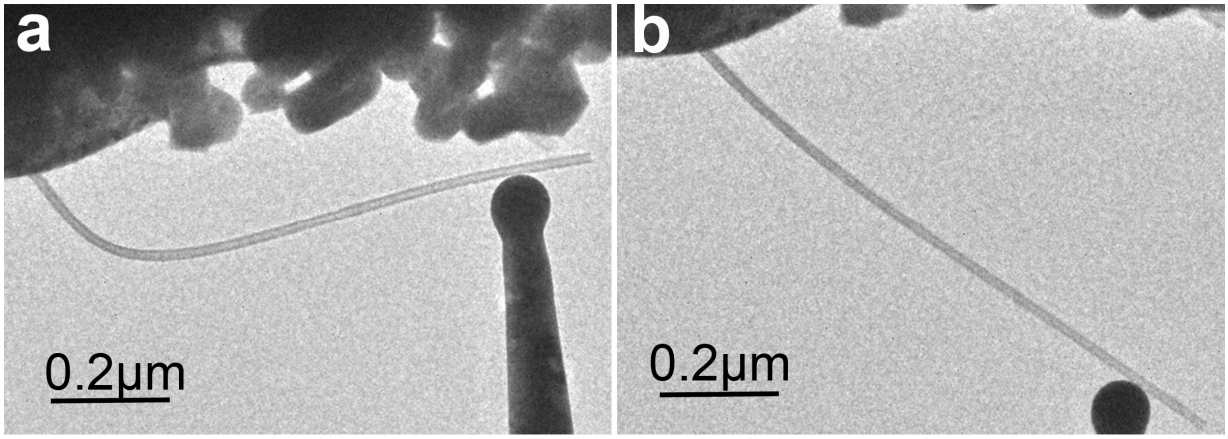

Figure S1. (a) TEM image showing a WS_2 NT is bent uniformly. (b) TEM image of the NT after the load is released.

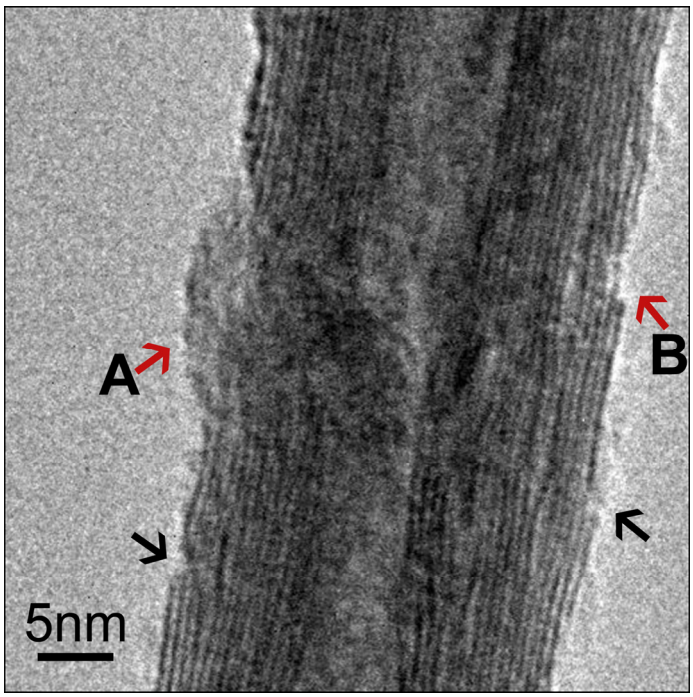

Figure S2. HRTEM image of the broken shells in NT3 after electron irradiation with the dose of 5.2×10^{10}.

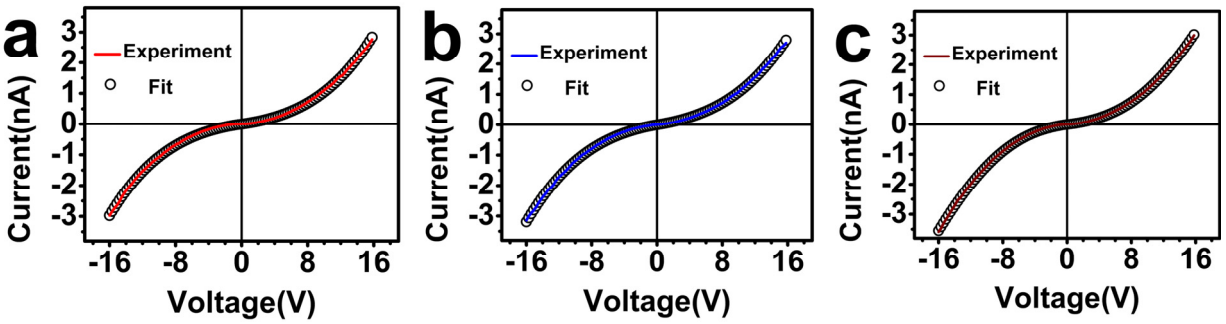

Figure S3. Experimental *I-V* curves (solid line) measured at three different bending stages and the fittings using the M-S-M model (dotted line). Figures S3a, S3b, S3c correspond to the *I-V* curves 'o', 'a', 'c' in Figure 6a, respectively.

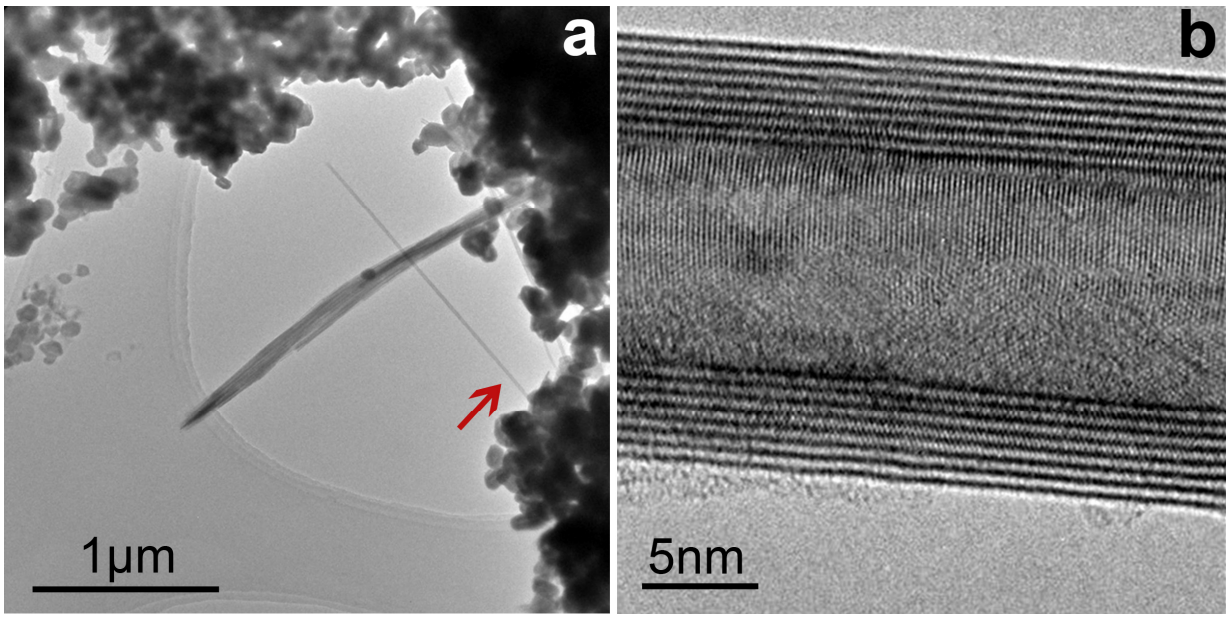

Figure S4. (a) TEM image of the sample containing WS_2 NTs and fullerenes. (b) A high-resolution TEM image of the area pointed by the red arrow in (a).

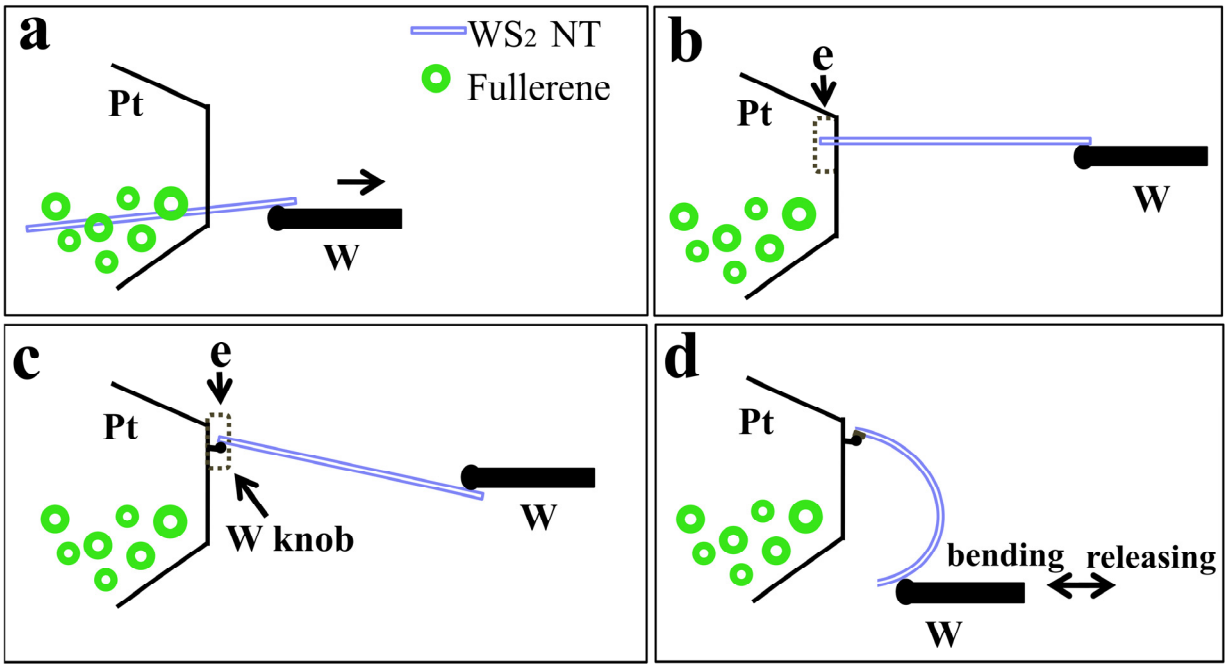

Figure S5. A set of schematic pictures showing the experimental setup. (a) An individual WS_2 NT with perfect crystal structure is selected and pulled out from the NT/fullerenes mixture. (b) The NT is fixed at one end to the Pt wire by electron beam induced deposition. (c) The NT is fixed at one end to a W knob by electron beam induced deposition. (d) The NT is bent and released by moving the W tip.