

Supporting Information

Triboelectrification of Two-dimensional Chemical Vapor Deposited WS₂ at Nanoscale

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Fig. S1 Schematic illustration for the growth of WS₂ films on the SiO₂/Si substrates by CVD.

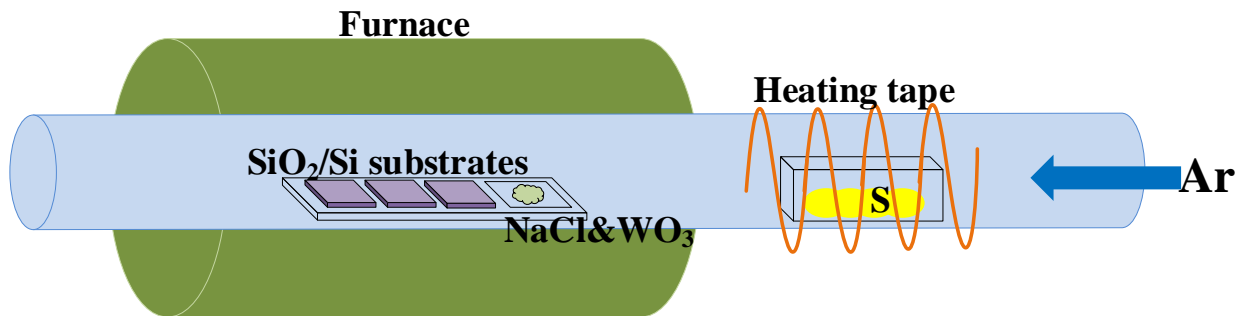


Fig. S2 Optical image of few layers (5 layers) and multilayers (9 layers).

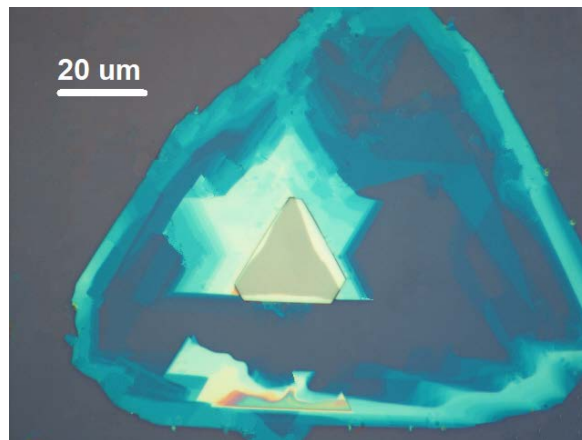


Fig. S3 Surface topography of few layers and multilayers.

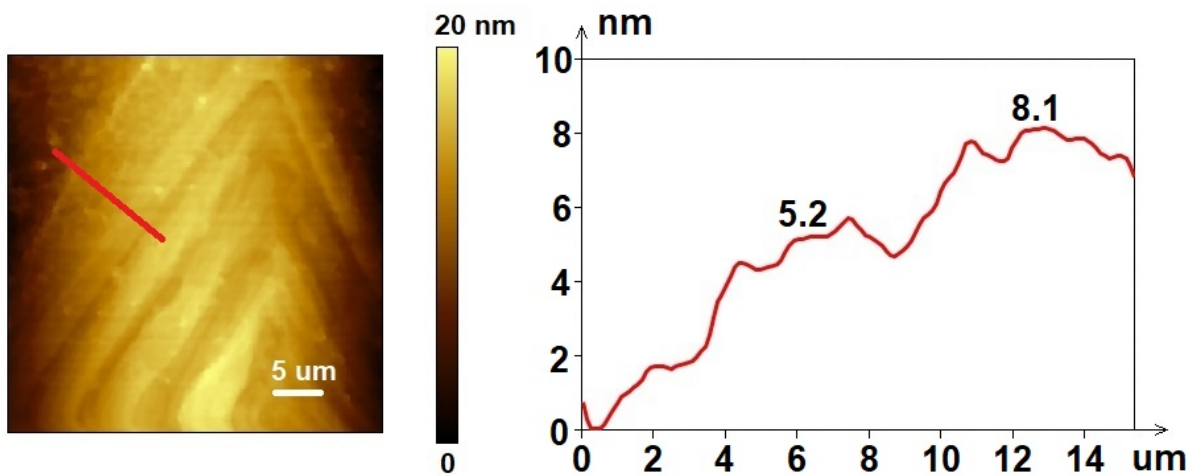


Fig. S4 XPS spectrum of C 1s orbital (monolayer).

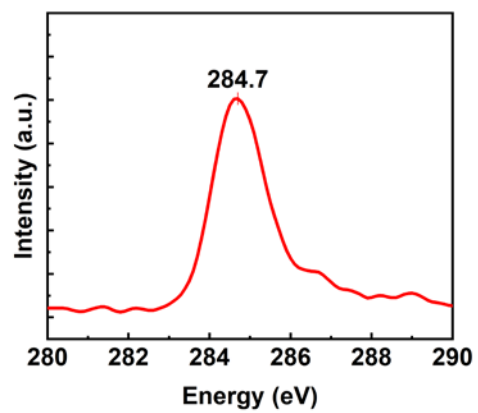


Fig. S5 XPS spectra of (a) W 4f, (b) S 2p and (c) C 1s orbitals of few layers.

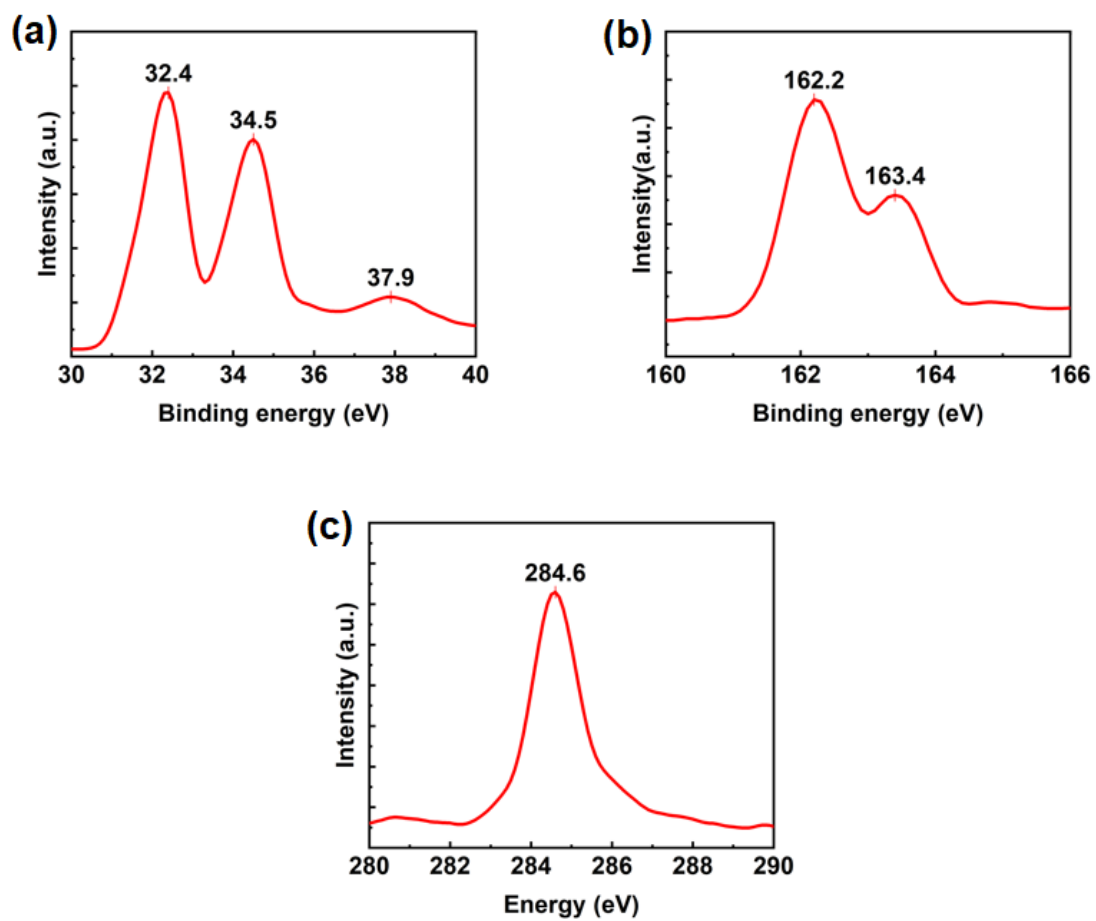


Fig. S6 XPS spectra of (a) W 4f, (b) S 2p and (c) C 1s orbitals of multilayers.

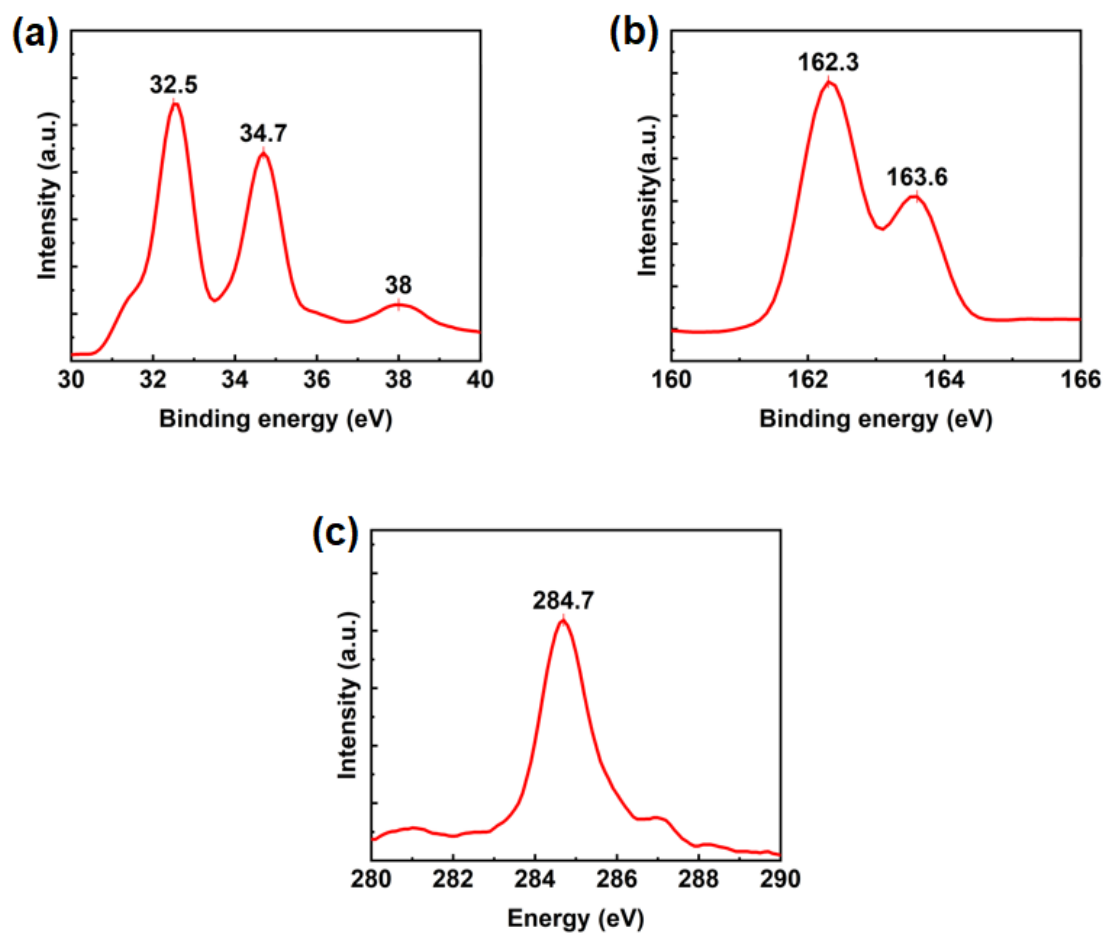


Fig. S7 Surface topographies before and after triboelectrification, with rubbed region squared.

