

Supplementary materials

The role of GaN in the heterostructure WS_2/GaN for SERS applications

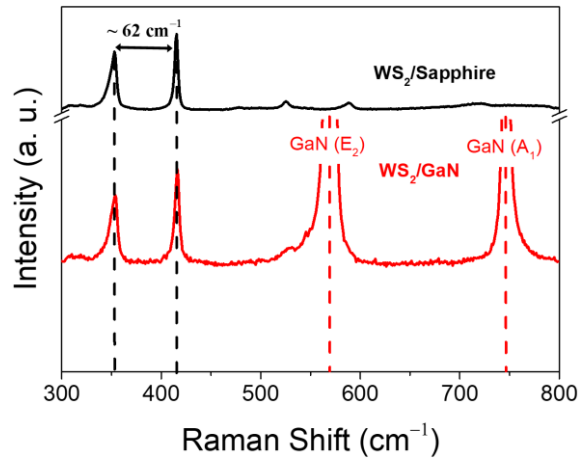


Figure S1. Additional Raman results of WS_2/GaN heterostructure.

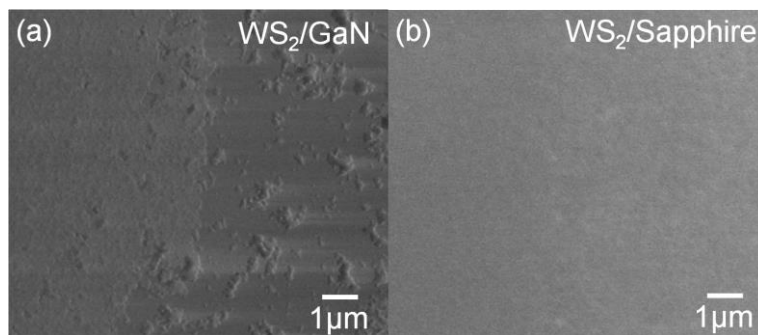


Figure S2. SEM images of different samples: (a) WS_2/GaN , and (b) $\text{WS}_2/\text{sapphire}$.

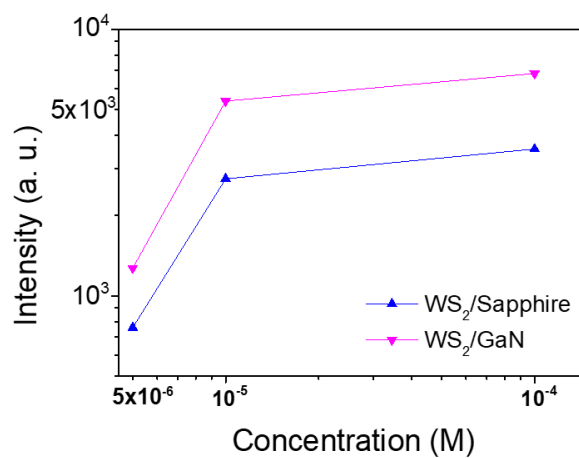


Figure S3. A relationship between the Raman peak intensities at 611 cm^{-1} and the R6G concentrations (5×10^{-6} to 10^{-4} M).