

## SUPPORTING INFORMATION

### **High quality graphene films with clean surface prepared by UV/ozone assisted transfer process**

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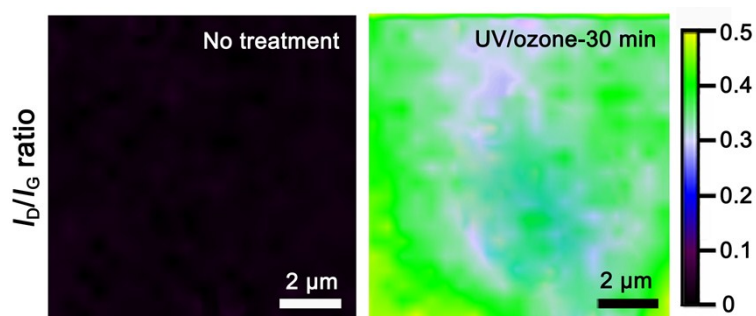
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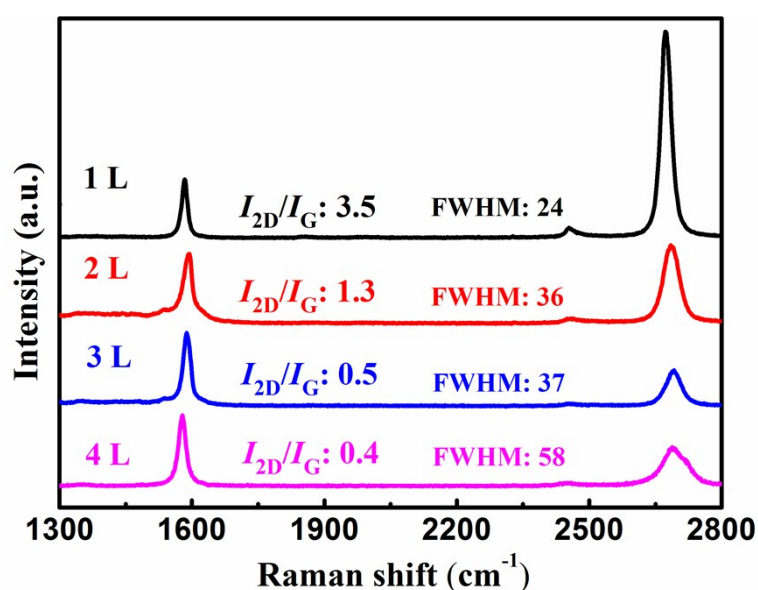
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## SUPPLEMENT



**Fig. S1.** Raman mapping of  $I_D/I_G$  ratio for the bottom graphene.



**Fig. S2.** Raman spectra of graphene with 1, 2, 3, and 4 layer(s).

**Fig. S2** exhibits the Raman spectra of graphene with 1, 2, 3, and 4 layer(s). The quality of transferred graphene sheets was checked with Raman spectroscopy, as shown in Figure 2b. The sharp 2D peaks at around  $2700\text{ cm}^{-1}$  indicate that the single-layer graphene sheets are still intact. As the layer number increases, the intensity of the 2D peak decreases and the FWHM broaden as expected.<sup>1</sup>

## References

1. W. H. Lin, T. H. Chen, J. K. Chang, J. Taur, Y. Y. Lo, W. L. Lee, C. S. Chang, W. B. Su and C. Wu, *Acs Nano*, 2014, **8**, 1784-1791.