Supporting Information

Unveiling the direct correlation between the CVD-grown graphene and the growth template

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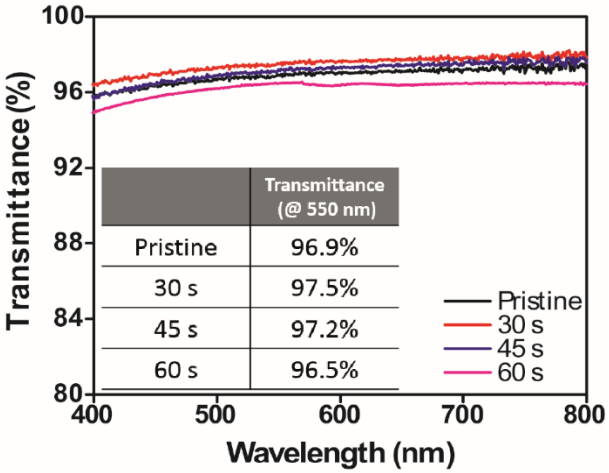

Figure S1 Optical transmittance data of graphene films transferred onto the quartz substrates. The transmittance of graphene films decreases with increasing nitric acid treating time.

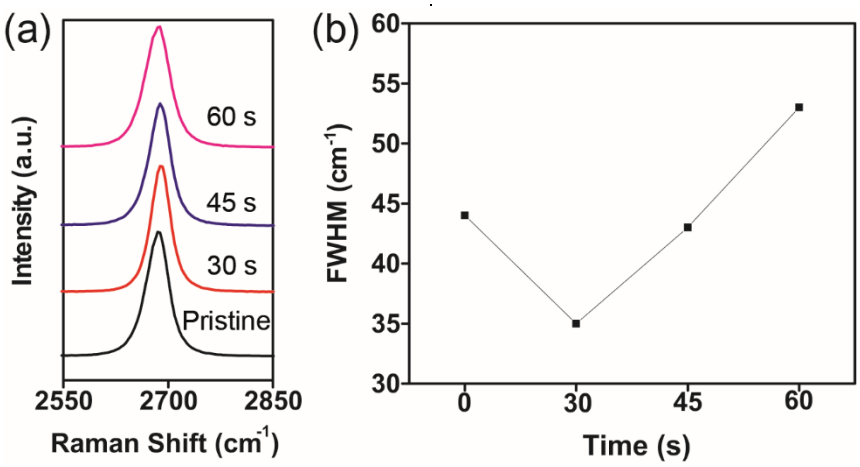

Figure S2 (a) 2D peaks of graphene film and (b) associated FWHM values obtained from the Raman spectra. Longer acid treatments lead to the increase in FWHM values, indicating degradation of the quality in the graphene film.

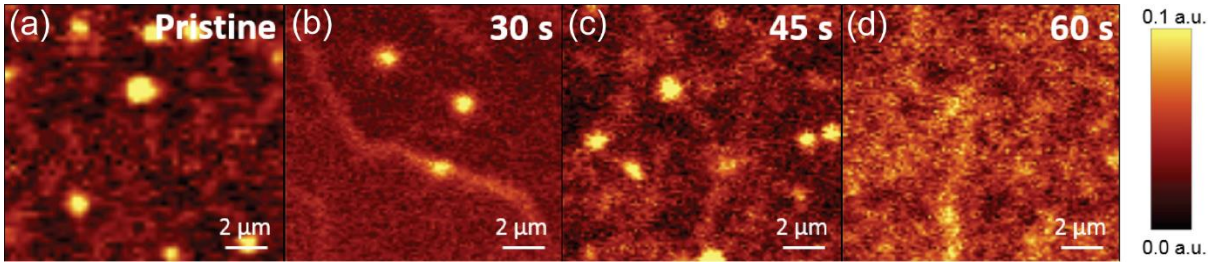

Figure S3 (a-d) Raman mapping of I(D)/I(2D) ratio of graphene films obtained from various types of copper substrates, indicating increasing contribution of defects with increasing acid treatments time.