

Supporting information

***In Situ* Synthesis of Natural Rubber Latex-Supported Gold Nanoparticles for Flexible SERS Substrates**

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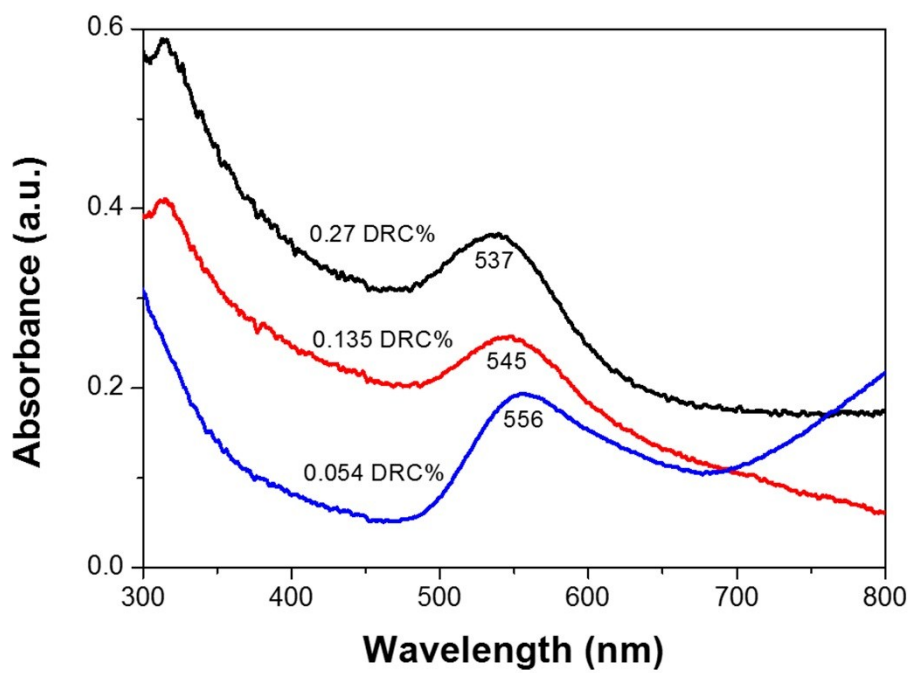


Fig. S1. UV-vis spectra of the hybrid latex of AuNPs@NRL with different concentrations of NRL, ranging from 0.27 to 0.054 DRC %.

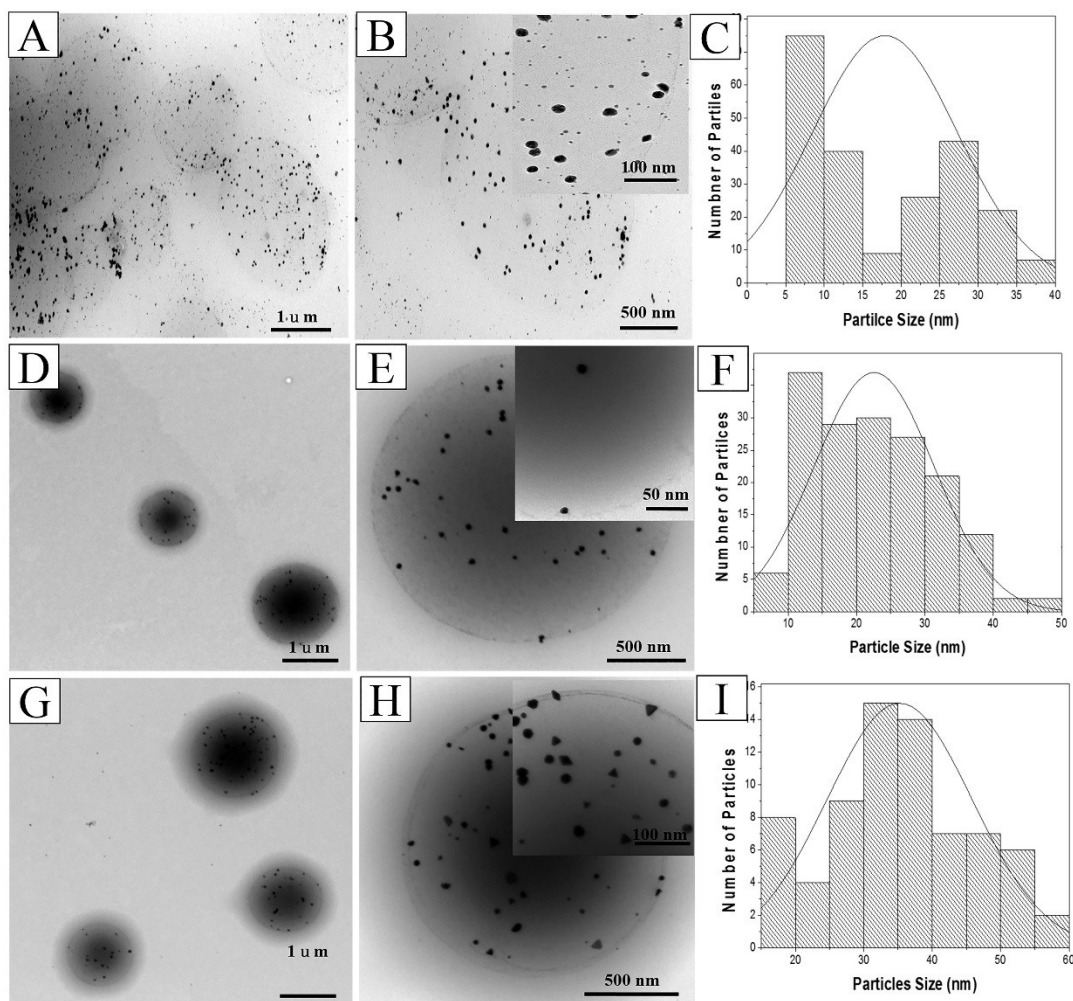


Fig. S2. TEM images of (A and B), (D and E) and (G and H) along with statistical histograms (C, F and I) of the hybrid latex of AuNPs@NRL with different concentration of NRL with 0.27 DRC%, 0.135 DRC% and 0.054 DRC%, respectively. Insets show enlarged view of corresponding single rubber particle containing Au NPs.

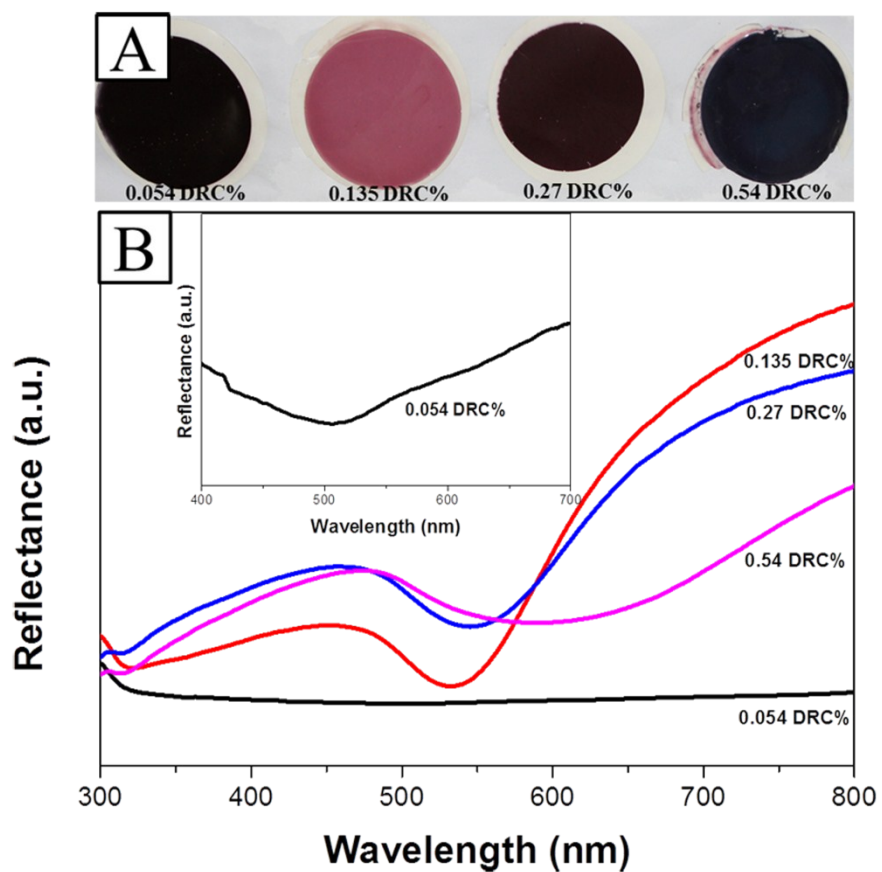


Fig. S3. The optical image of the hybrid films of AuNPs@NRL with different DRC (A) and the corresponding UV-vis reflectance spectra (B), respectively. Inset shows the enlarged reflectance spectrum of the film of AuNPs@NRL (0.054 DRC%).