

Supplemental Information

Ag Nanoparticles Decorated CuO@RF Core-Shell Nanowires for High-Performance Surface-Enhanced Raman Spectroscopy Application

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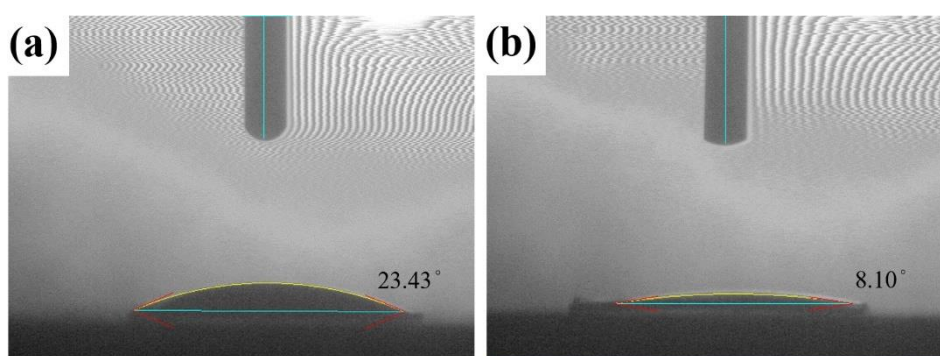


Figure S1 Contact angle images for water droplets on the surface of (a) CuO nanowires and (b) CuO nanowires with APTMS layer.

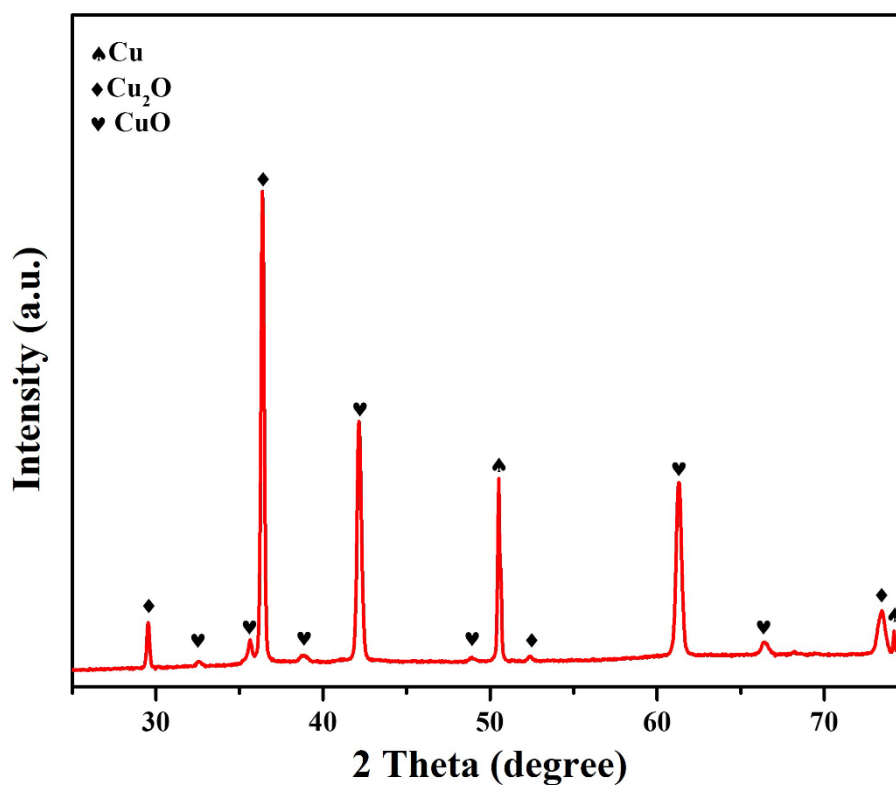


Figure S2 XRD diffraction pattern of CuO@RF@Ag nanowires grown at the resorcinol weight of 16.37 mg and AgNO₃ concentration of 0.45 mM.

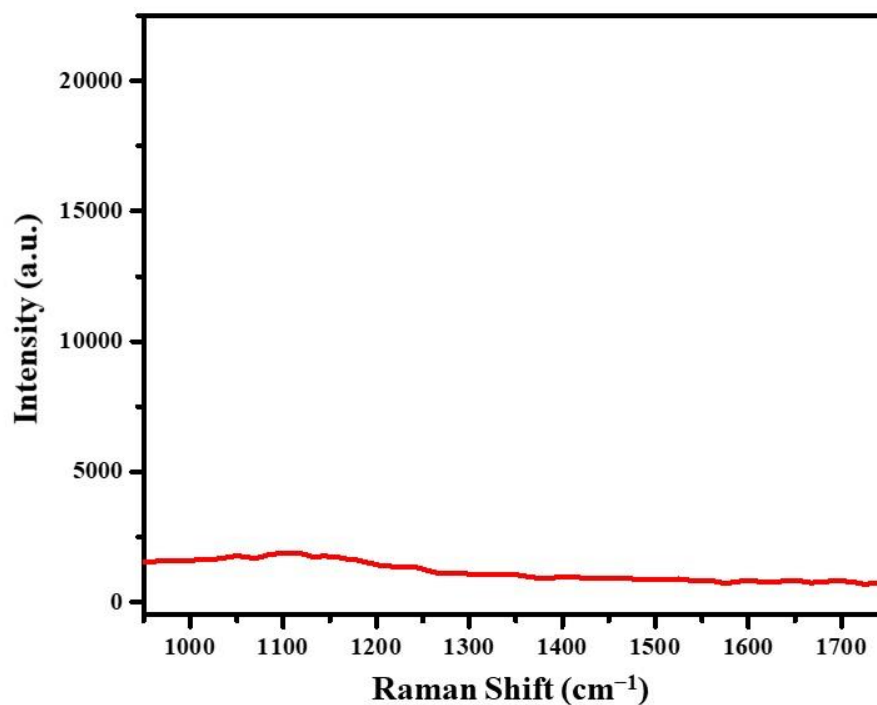


Figure S3 The Raman spectrum of CuO@RF nanowires.

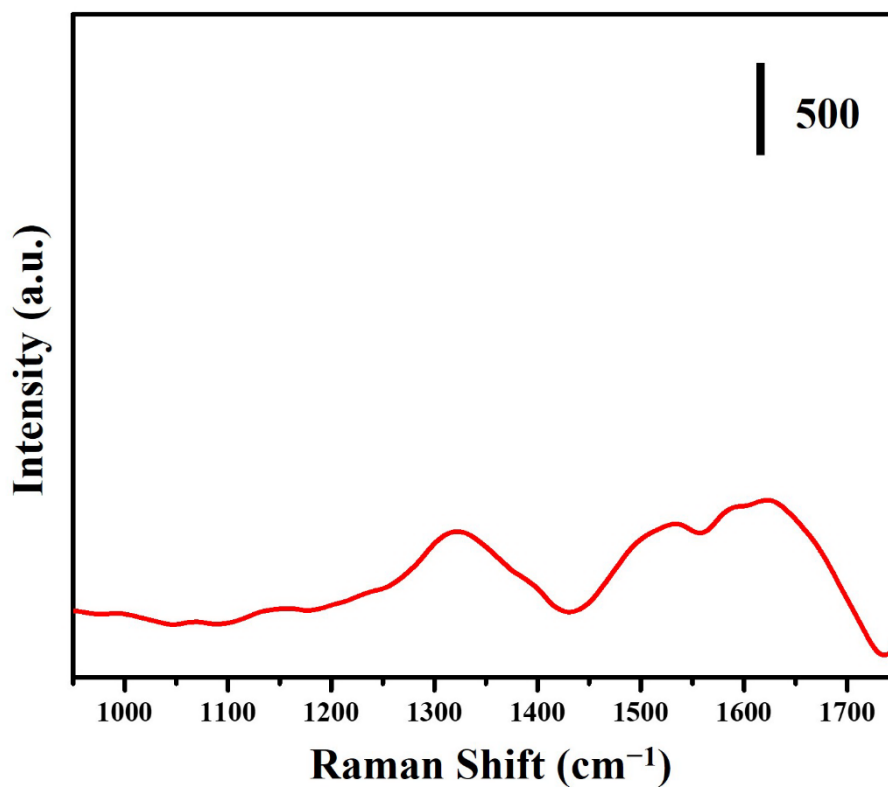


Figure S4 SERS spectrum of R6G at 10^{-13} M was obtained from CuO@RF@Ag nanowires.

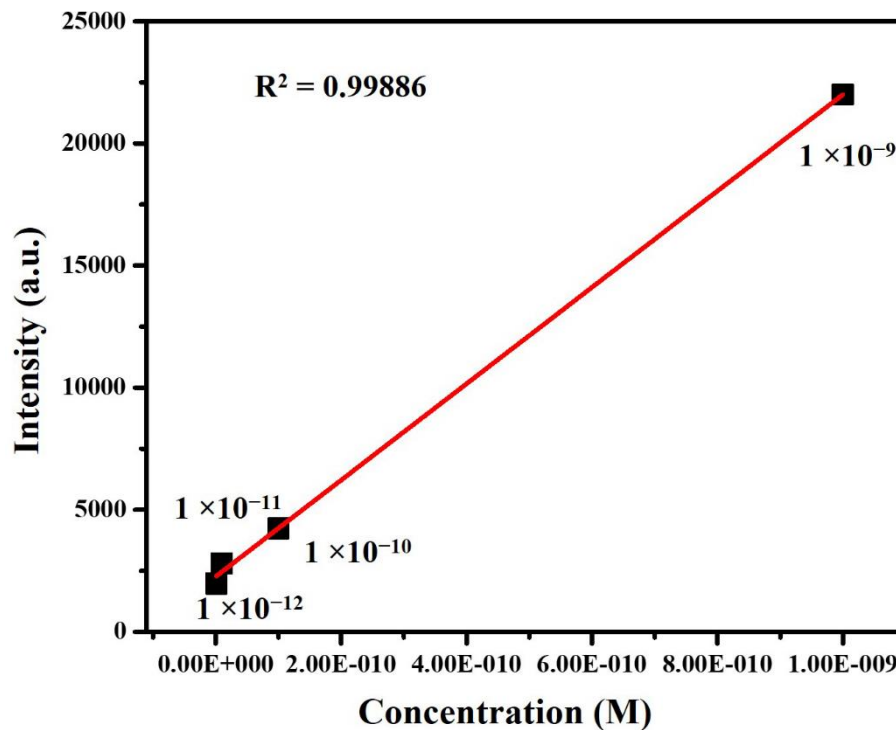


Figure S5 The concentration dependence of R6G peak intensity at 1649 cm^{-1} as a function of R6G concentrations ranging from 10^{-9} to 10^{-12} M for CuO@RF@Ag nanowires.

Table S1 Comparison of different methods for amoxicillin and 5-FU detection.

Materials	Drug	Detection Limit (M)	References
Ag nanoparticles	Amoxicillin	4.4×10^{-10}	Ref. 40
Ag nanocube	Amoxicillin	1×10^{-9}	Ref. 41
AuNPs/Si nano column	Amoxicillin	1×10^{-9}	Ref. 42
CuO@RF@Ag nanowires	Amoxicillin	1×10^{-10}	This work
Ag nanoparticles	5-fluorouracil	1×10^{-5}	Ref. 43
Ag colloid droplets	5-fluorouracil	3.8×10^{-7}	Ref. 44
Ag NPs/Si pyramids	5-fluorouracil	1×10^{-6}	Ref. 45
CuO@RF@Ag nanowires	5-fluorouracil	1×10^{-7}	This work