

Electronic Supplementary Information

Fabrication of gold and silver hierarchical micro/nanostructure arrays by localized electrocrystallization for application as SERS substrates

Jingjing Wang,^a Guotao Duan,^{a*} Guangqiang Liu,^a Yue Li,^a Lei Xu,^b and Weiping
Cai^{a*}

^aKey Lab of Materials Physics, Anhui Key Lab of Nanomaterials and
Nanotechnology, Institute of Solid State Physics, Chinese Academy of Sciences,
Hefei, 230031, P. R. China

^bEast China Research Institute of Electronic Engineering, Hefei, 230088, P. R. China

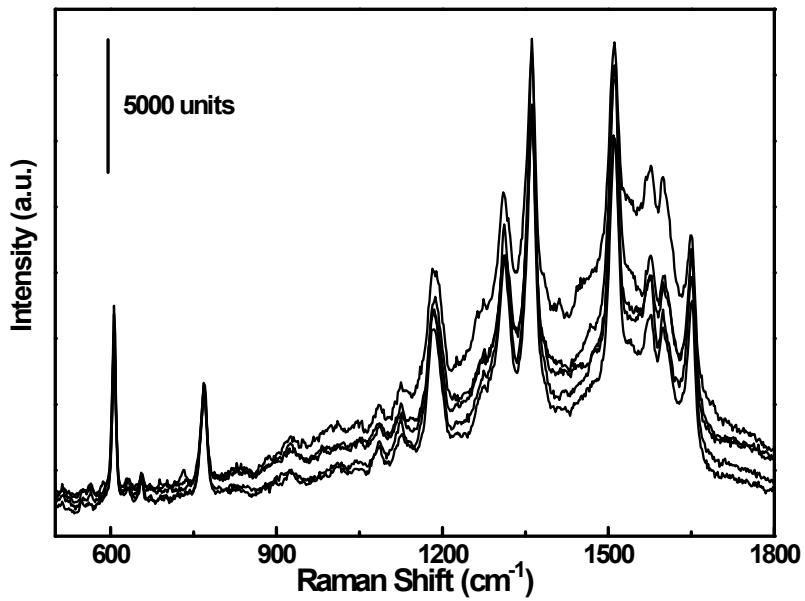


Fig. S1 SERS spectra of R6G molecules absorbed Au hierarchically micro/nanostructured arrays after surface coating of ~60 nm Au film. The Raman test conditions are respectively, laser wavelength: 633 nm, laser power: 0.85mW, integration time: 10 s. These spectra were obtained from five different points randomly chosen on sample surface, and the measurement error is 12%.

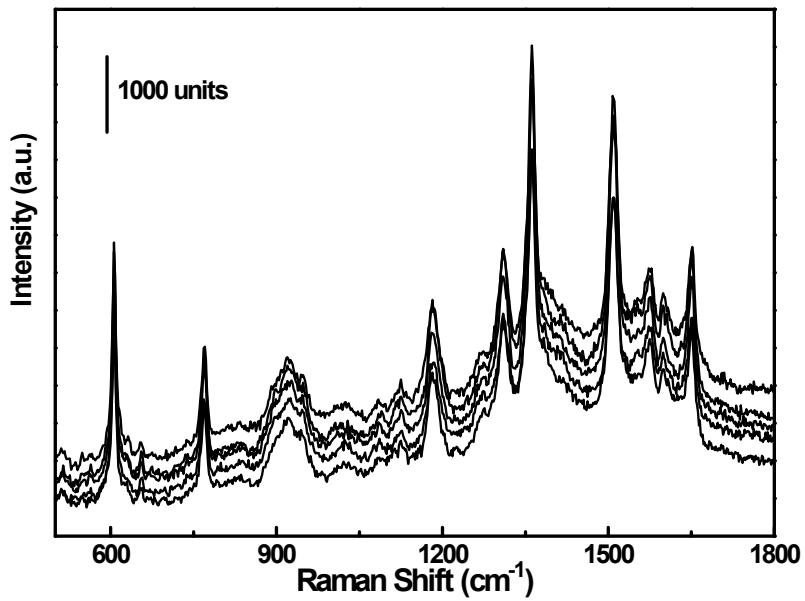


Fig. S2 SERS spectra of R6G molecules adsorbed on Ag hierarchically micro/nanostructured arrays after surface coating of ~60 nm Au film. The Raman test conditions are respectively, laser wavelength: 633 nm, laser power: 0.85mW, integration time: 10 s. These spectra were obtained from five different points randomly chosen on sample surface, and the measurement error is 10%.