

## Supporting Information

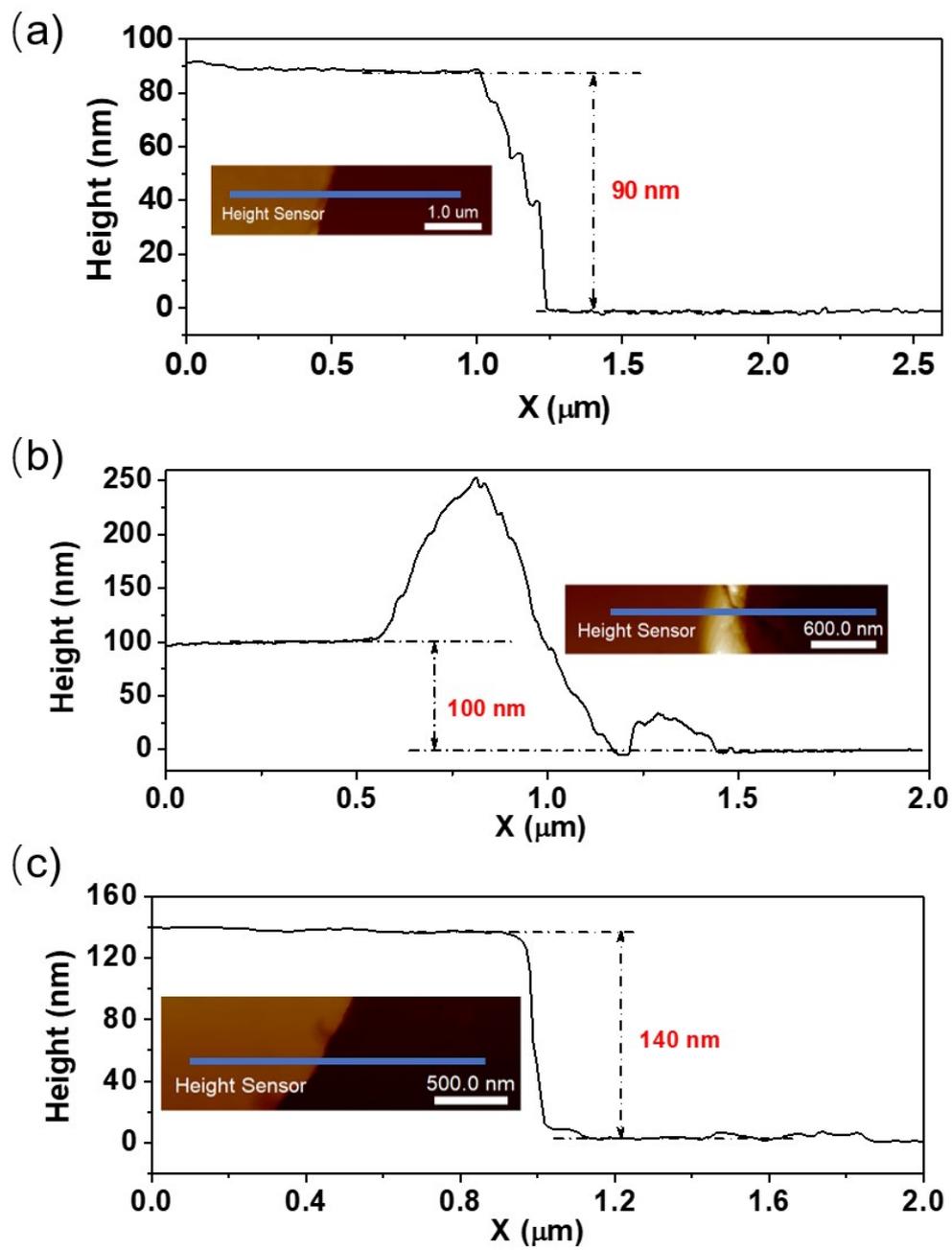
"Layer-by-layer" building strategy for the fabrication of metal-hydrogel-metallic nanoarray plasmonic cavity with dynamic color display performance

*Dan Chen, ‡ Jiazhen Liu, ‡ Shunsheng Ye, Xuemin Zhang, Liying Zhang, Fuqiang Fan, Tieqiang*

*Wang, \* Yu Fu, \* Jianshe Hu\**

†College of Sciences, Northeastern University, Shenyang 110819, P. R. China;

Email: wangtieqiang@mail.neu.edu.cn, fuyu@mail.neu.edu.cn and hujianshe@mail.neu.edu.cn



**Fig. S1** AFM images of PDMAEMA hydrogel in air. (a-c) thickness of PDMAEMA hydrogel obtained by spin-coating.