

Fig. S1. The size distribution plots for the different VO₂@SiO₂ samples (a-i) in Figure 2.

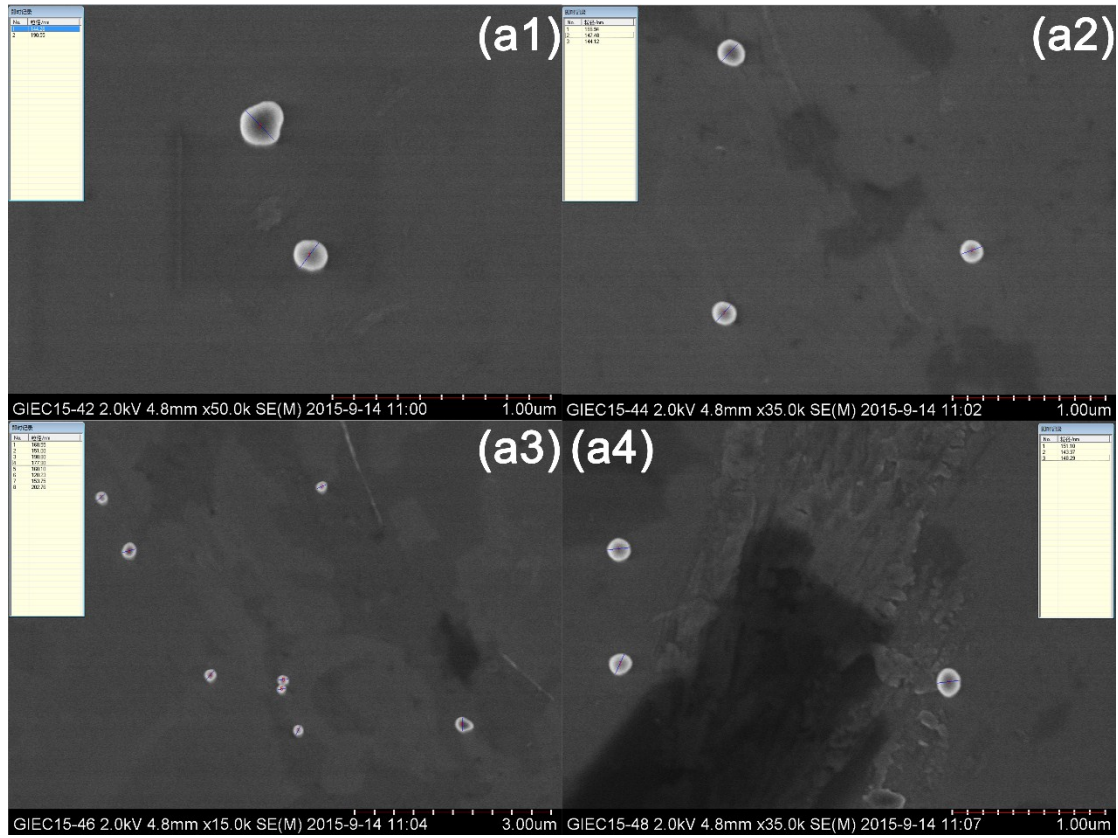


Fig. S2. The SEM picture of VO₂@SiO₂ Sample a after size measuring.

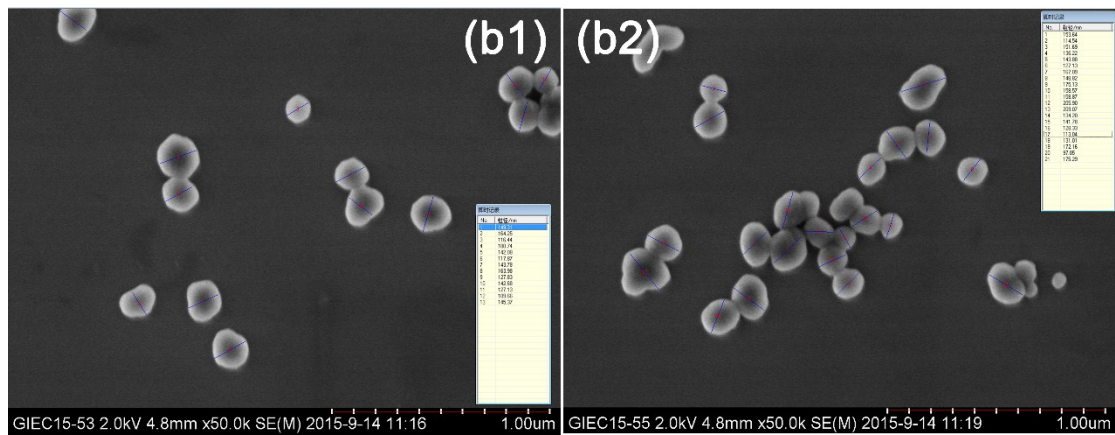


Fig. S3. The SEM picture of VO₂@SiO₂ Sample b after size measuring.

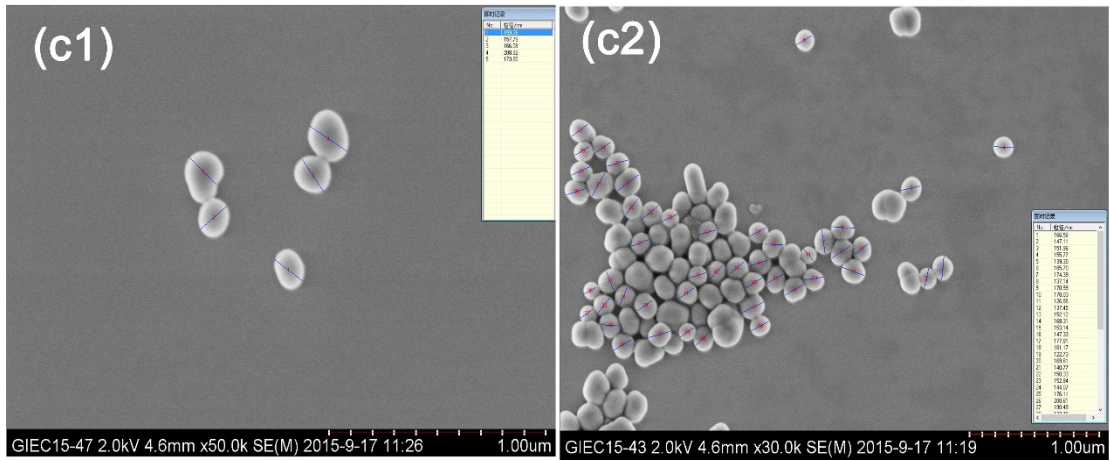


Fig. S4.The SEM picture of VO₂@SiO₂ Sample c after size measuring.

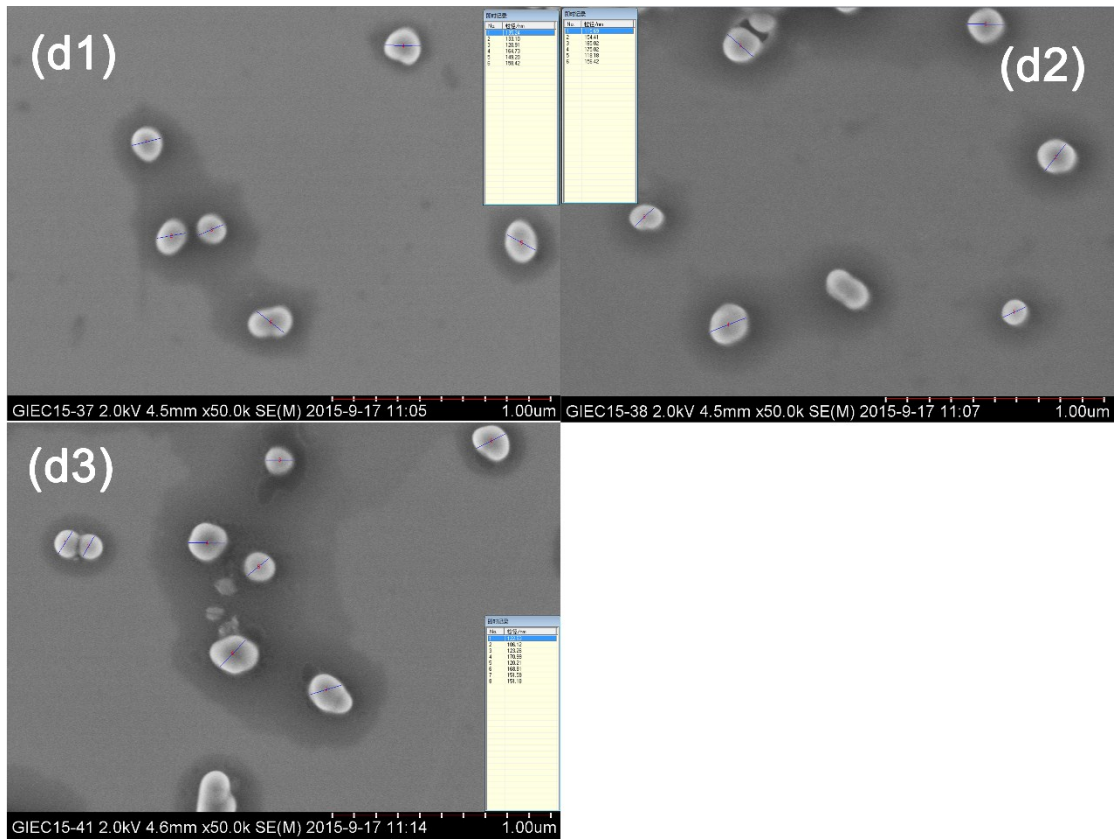


Fig. S5.The SEM picture of VO₂@SiO₂ Sample d after size measuring.

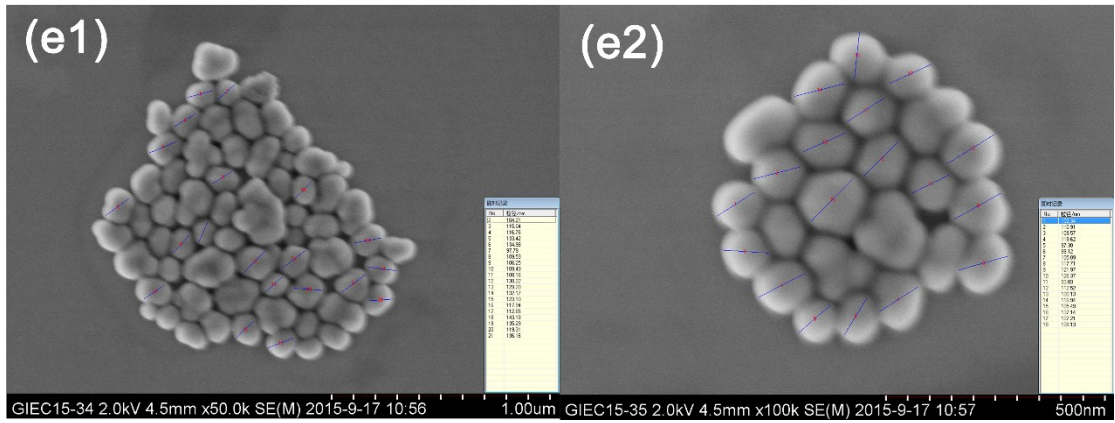


Fig. S6.The SEM picture of VO₂@SiO₂ Sample e after size measuring.

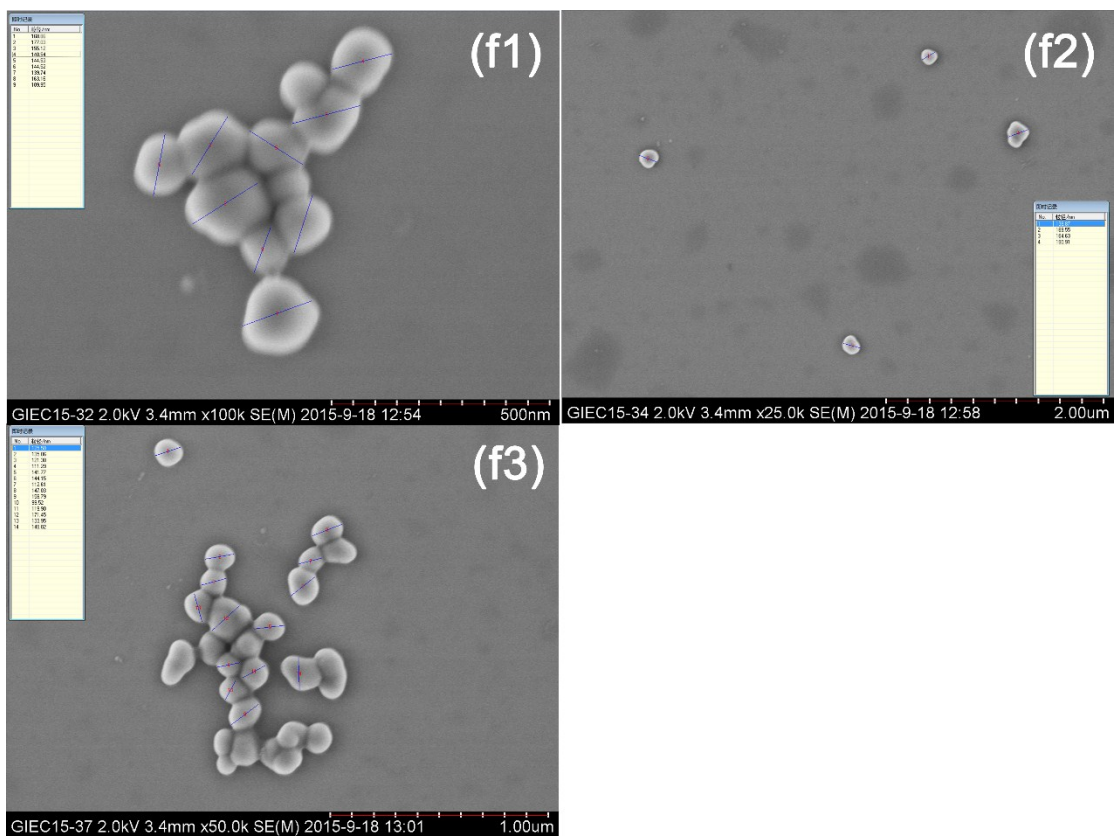


Fig. S7.The SEM picture of VO₂@SiO₂ Sample a after size measuring.

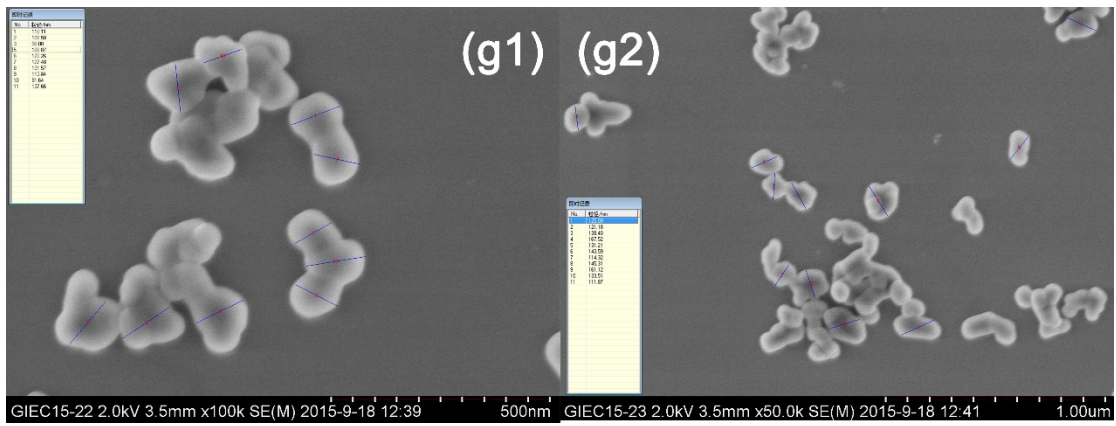


Fig. S8.The SEM picture of VO₂@SiO₂ Sample g after size measuring.

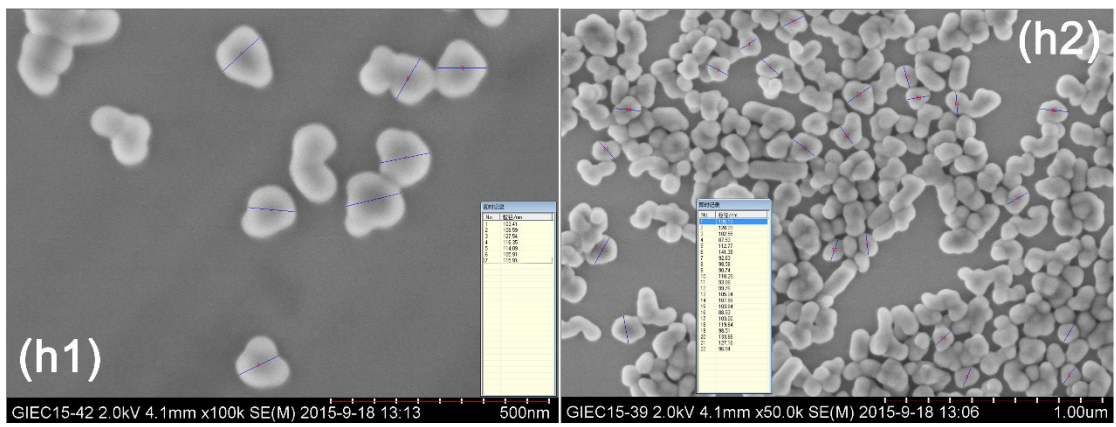


Fig. S9.The SEM picture of VO₂@SiO₂ Sample h after size measuring.

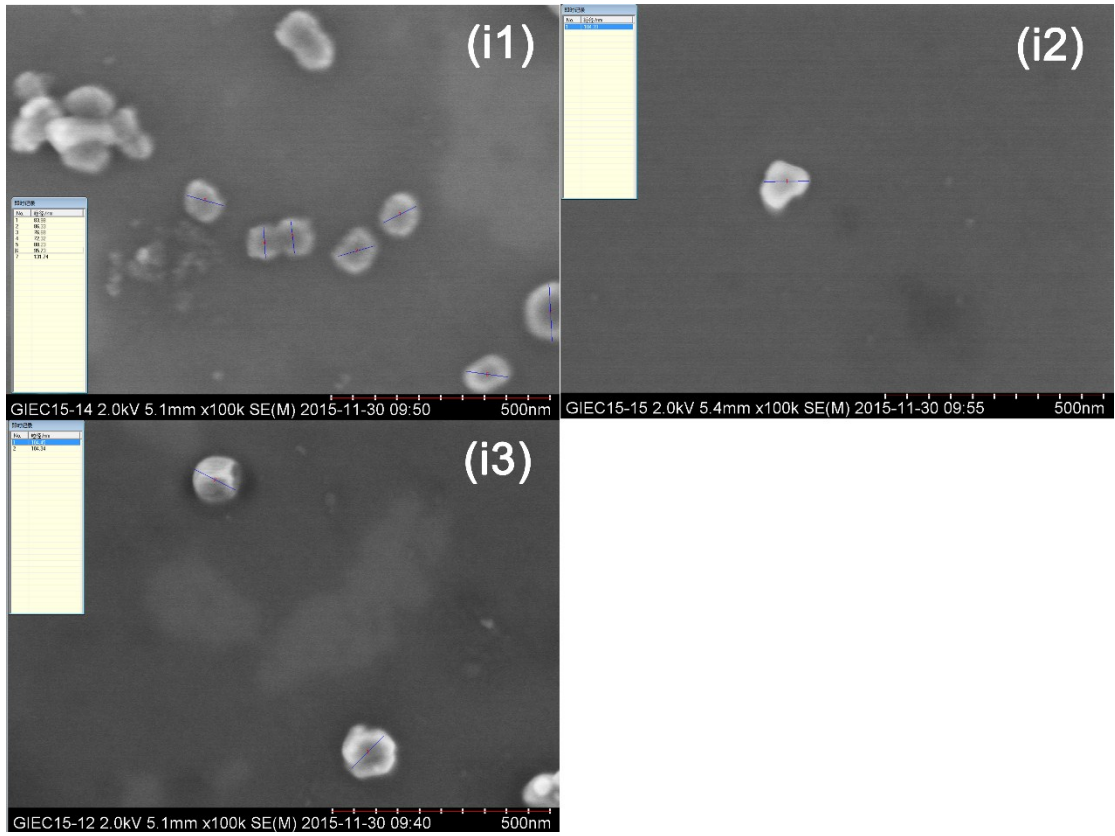


Fig. S10. The SEM picture of $\text{VO}_2@SiO_2$ Sample i after size measuring.

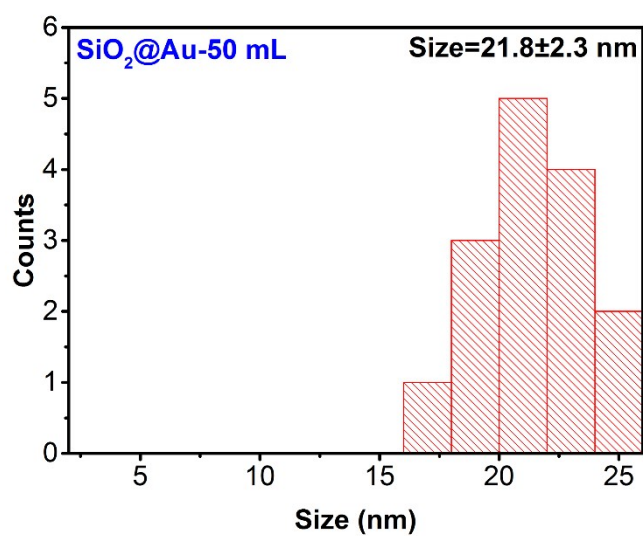
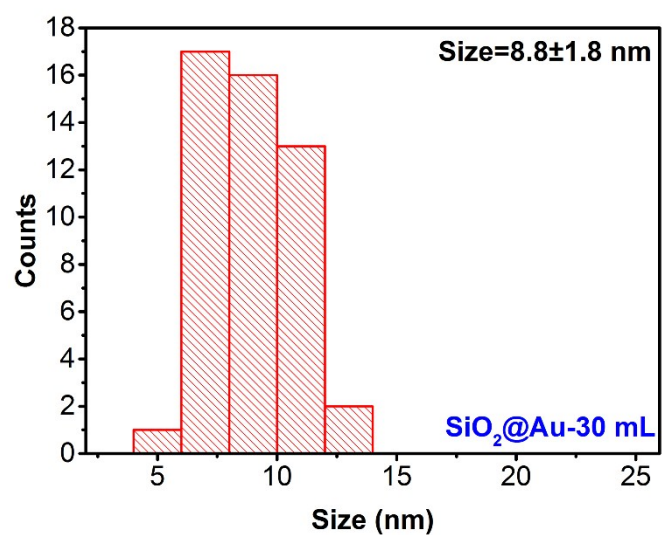
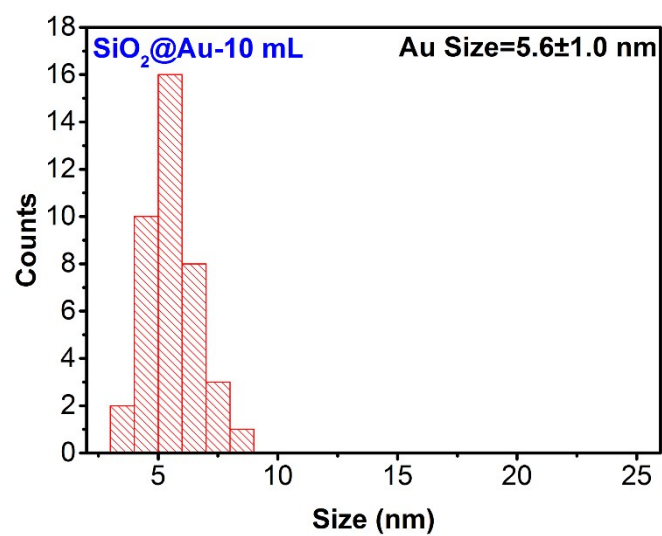


Fig. S11. The size distribution plots of Au particles on the SiO₂@Au for the different samples in Figure 5.