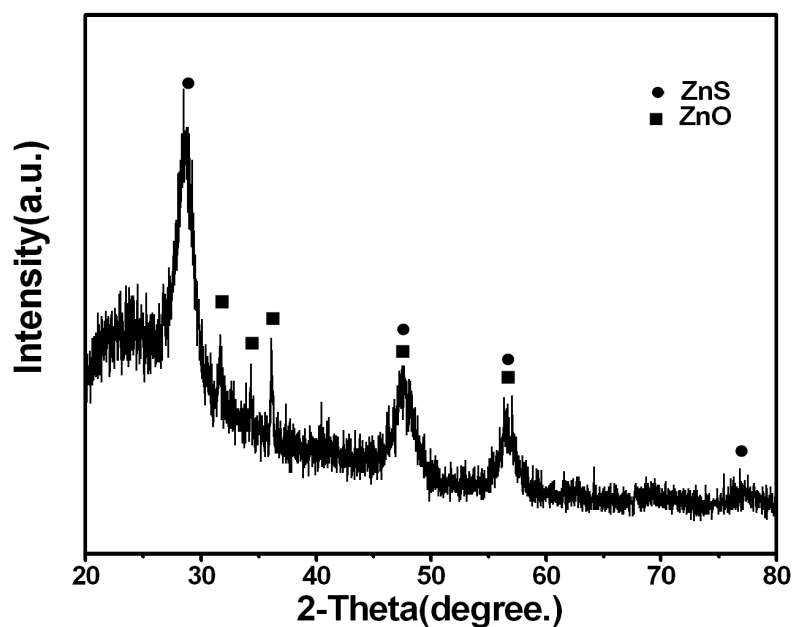
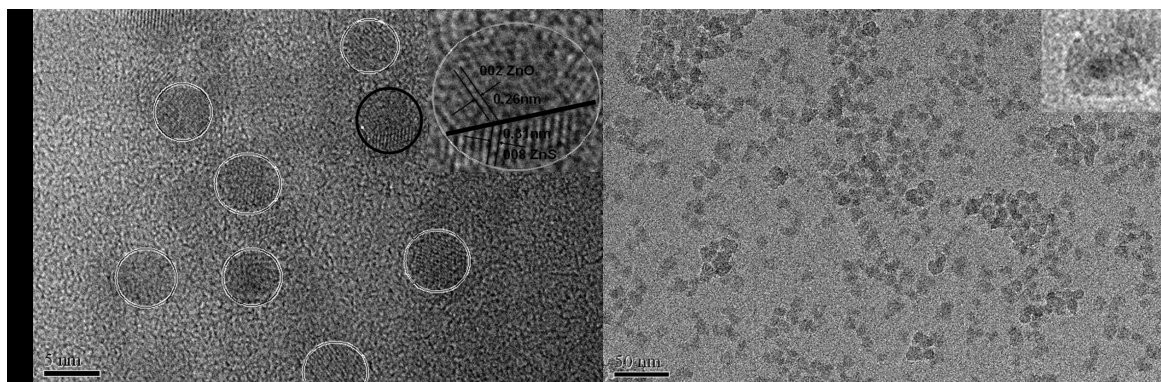
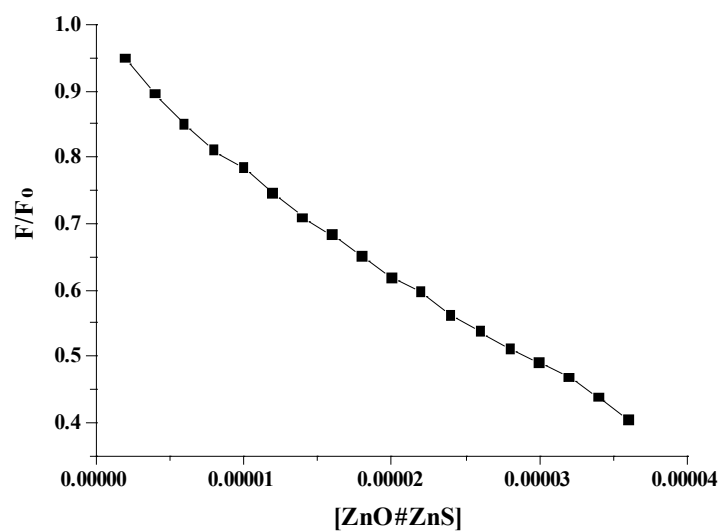




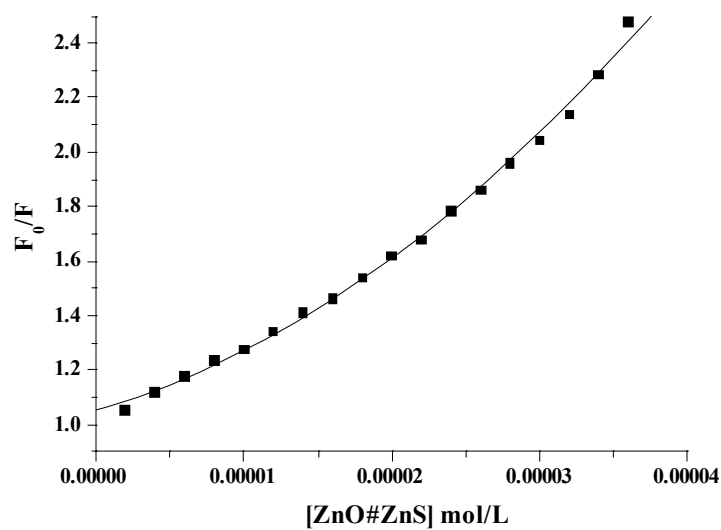
Supplementary material 1 Powder X-ray diffraction (XRD) patterns of O#SQDs produced after thermal annealing. Those marked with “ ” can be indexed to hexagonal wurtzite ZnO (JCPDS file no.36-1451), while the others marked with “ • ” can be indexed to hexagonal wurtzite-8H ZnS (JCPDS Card No. 39-1363).



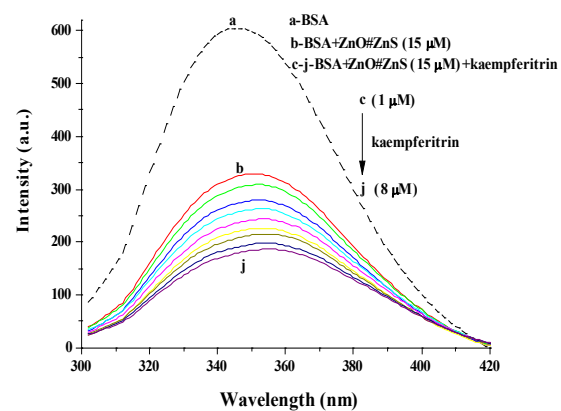
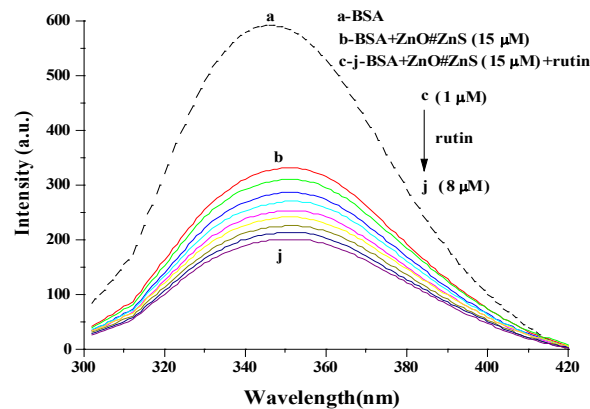
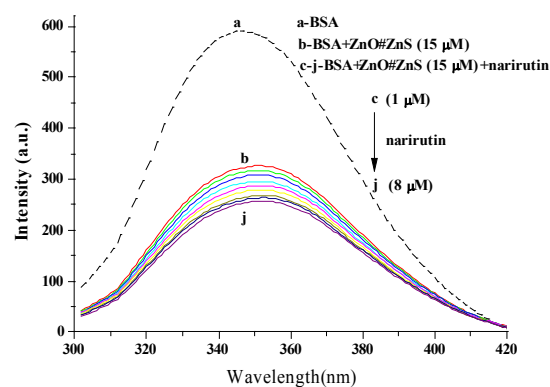
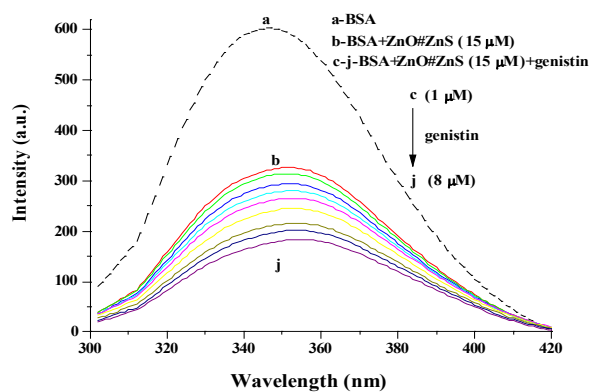
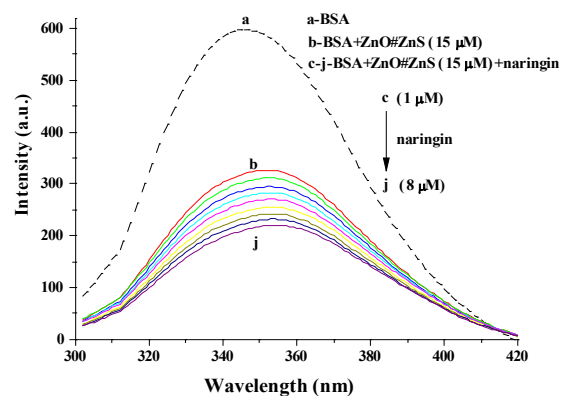
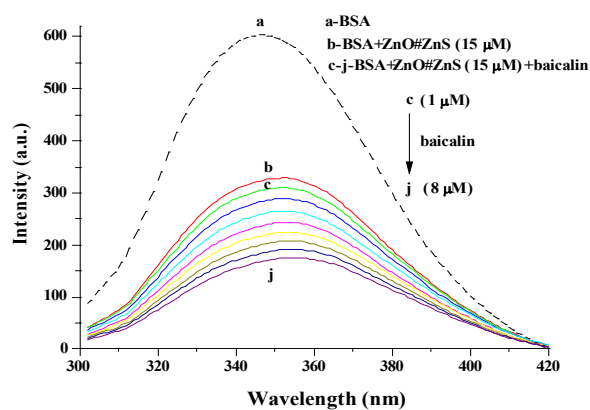
Supplementary material 2 The TEM pictures of O#SQDs synthesized at 200 °C for 18 h. The black circle QDs is the ZnS/ZnO which is amplified.



Supplementary material 3 The quenching ratio (F/F_0) of BSA fluorescence with addition of O#SQDs.



Supplementary material 4 The Stern-Volmer plots for BSA fluorescence quenching by O#SQDs.



Supplementary material 5 The fluorescence quenching of BSA by flavonoid glycosides in combination of quantitative O#SQDs (15.00×10^{-6} mol/L). BSA, 1.00×10^{-5} mol/L, $\lambda_{\text{ex}} = 280$ nm, $T = 300$ K.