

Electronic Supplementary Information(ESI)

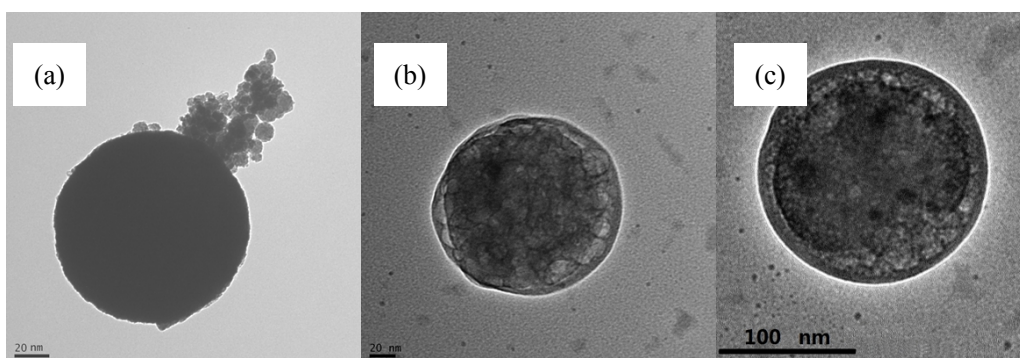


Figure S 1. TEM image of the solid ZnS sphere(a), ZnS/CuS samples obtained in 1h(b) and 3h(c)

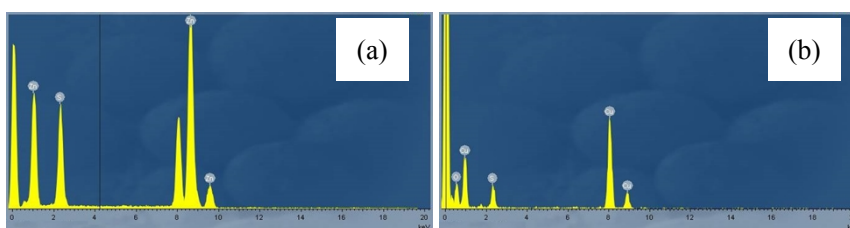


Figure S 2. EDS image of the solid ZnS sphere(a), ZnS/CuS samples obtained in 1h and 3h (b)

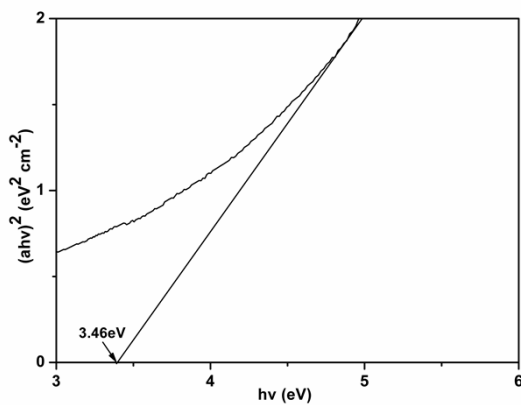


Figure S 3. The plots of the $(ah\nu)^2$ vs photon energy ($h\nu$) for ZnS

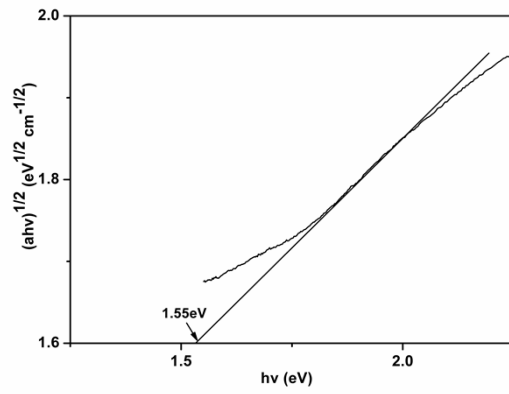


Figure S 4. The plots of the $(ah\nu)^{1/2}$ vs photon energy ($h\nu$) for CuS

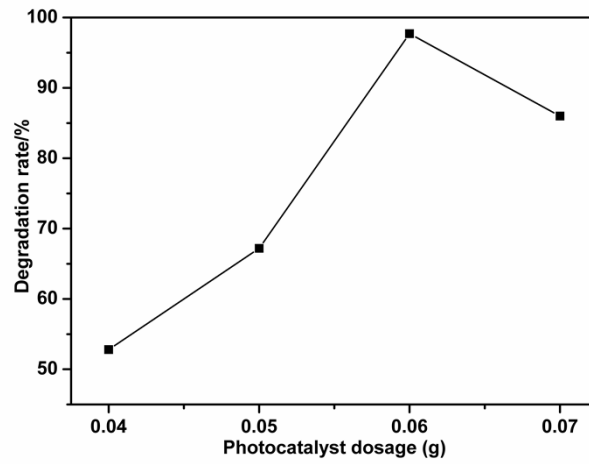
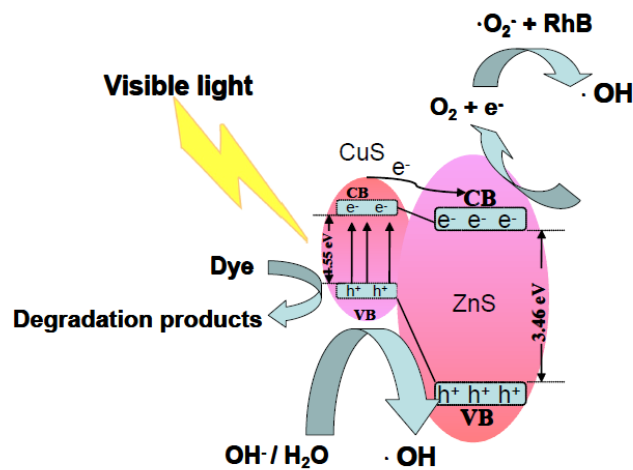


Figure S 5. Effect of catalyst loading on RhB degradation.



Scheme S 1. The photocatalytic mechanism of CuS/ZnS samples for degrading RhB under visible light