Electronic Supplementary Material (ESI) for New Journal of Chemistry.

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Electronic Supplementary Information(ESI)

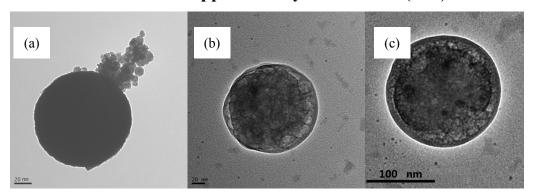


Figure S 1. TEM image of the solid ZnS sphere(a), ZnS/CuS samples obtained in 1h(b) and 3h(c)

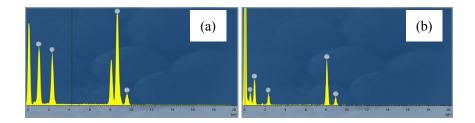


Figure S 2. EDS image of the solid ZnS sphere(a), ZnS/CuS samples obtained in 1h and 3h (b)

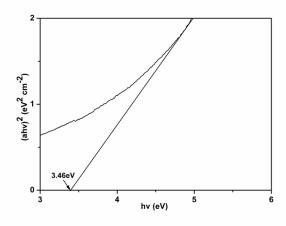


Figure S 3. The plots of the (ahv)² vs photon energy (hv) for ZnS

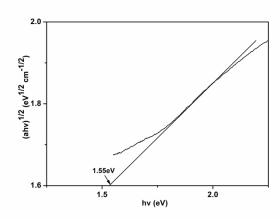


Figure S 4. The plots of the $(ahv)^{1/2}$ vs photon energy (hv) for CuS

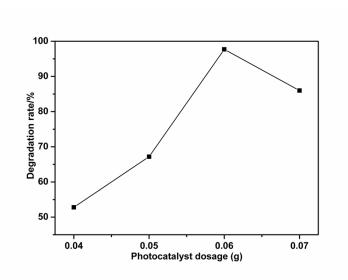
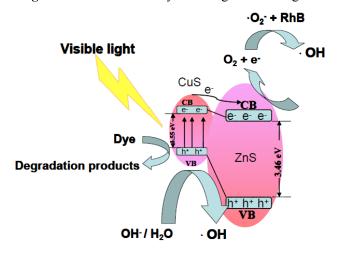


Figure S 5. Effect of catalyst loading on RhB degradation.



 $\textbf{Scheme S 1.} \ \textbf{The photocatalytic mechanism of CuS/ZnS samples for degrading RhB under visible light } \\$