

Supplementary Information

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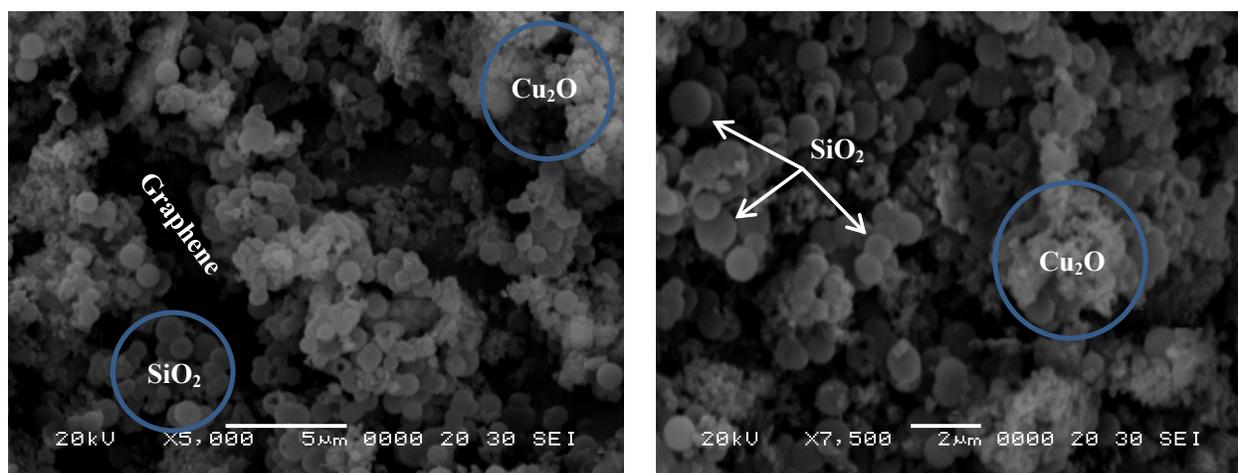


Fig. S1. SEM morphology of the mesoporous SiO₂/Cu₂O-graphene nanocomposite.

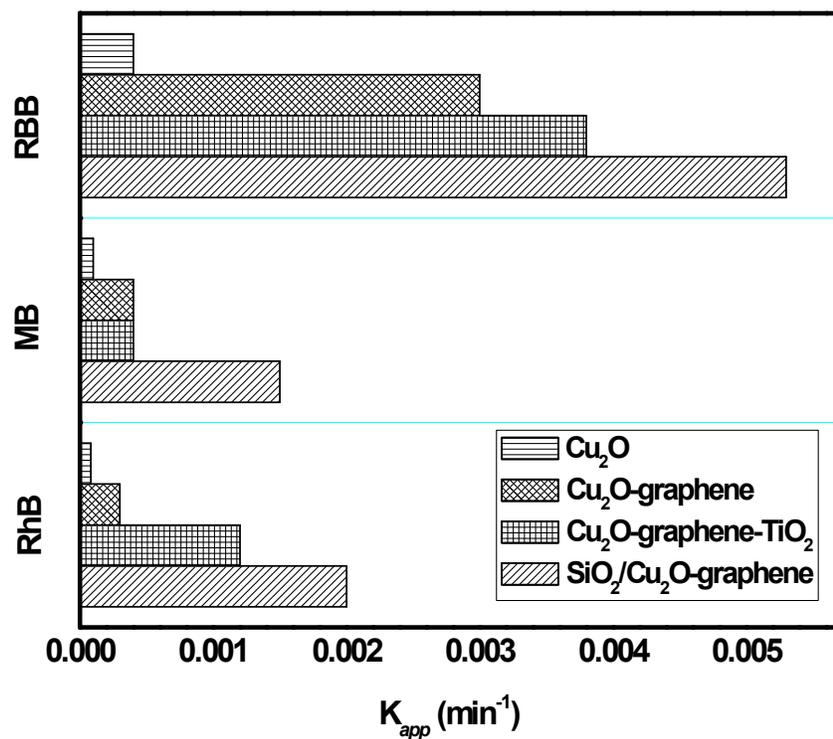
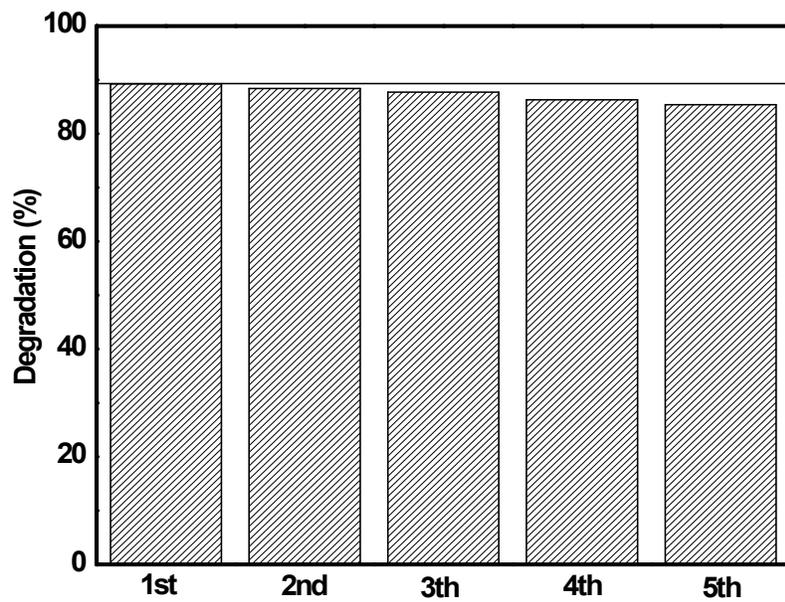
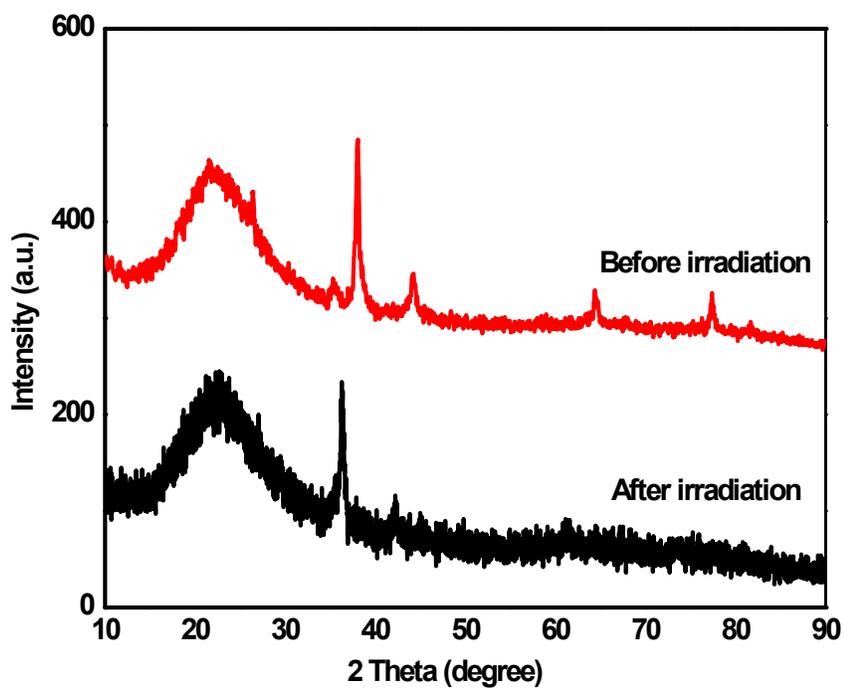


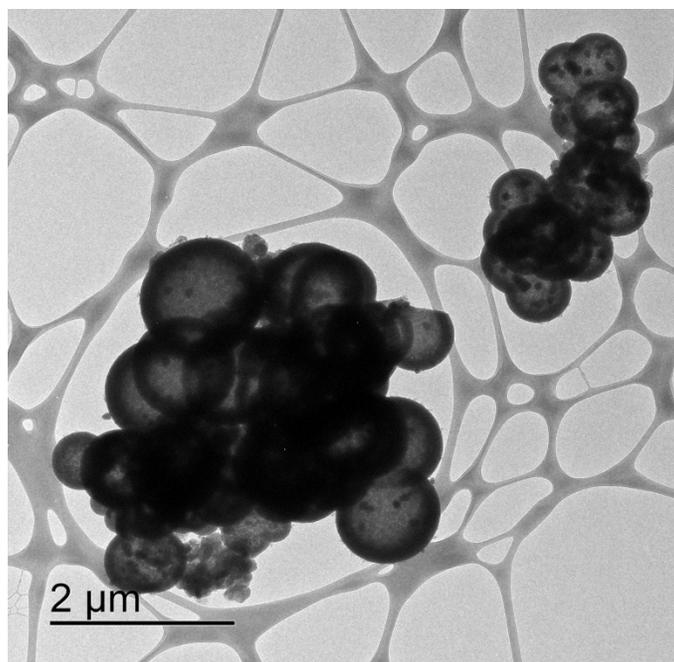
Fig. S2. Kinetics parameters of photocatalytic degradation of different organic dyes at different samples.



(a)



(b)



(c)

Fig.S3. (a) Cycling times of the photocatalytic degradation of RhB dye in the present of mesoporous SiO₂/ Cu₂O-graphene under visible light; (b) XRD pattern and (c) TEM image of the mesoporous SiO₂/ Cu₂O-graphene after five times repeated cycles with RBB.