Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Fast photocatalytic degradation of congo red using CoO-doped β-Ga_2O_3 nanostructures

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Fig. S1. EDX analysis of a) Ga_2O_3 (G), b) 3 wt% CoO- Ga_2O_3 and c) 5 wt% CoO- Ga_2O_3 samples.

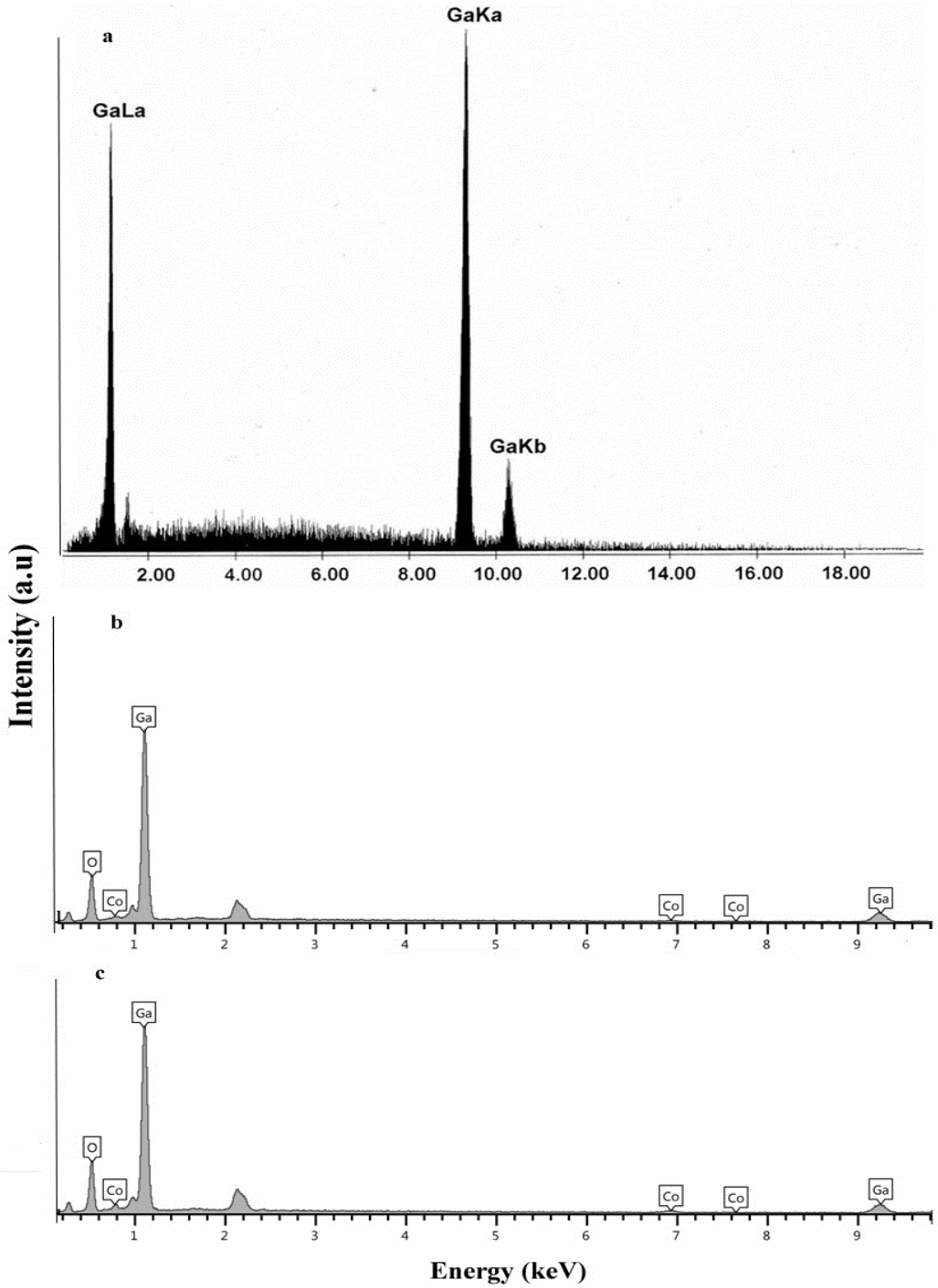

Fig. S2 Absorption spectra of a solution of 30ppm CR in the presence of a) G, b) GC-1 c) GC-2, GC-3 and d) GC-5 samples under UV light irradiation.

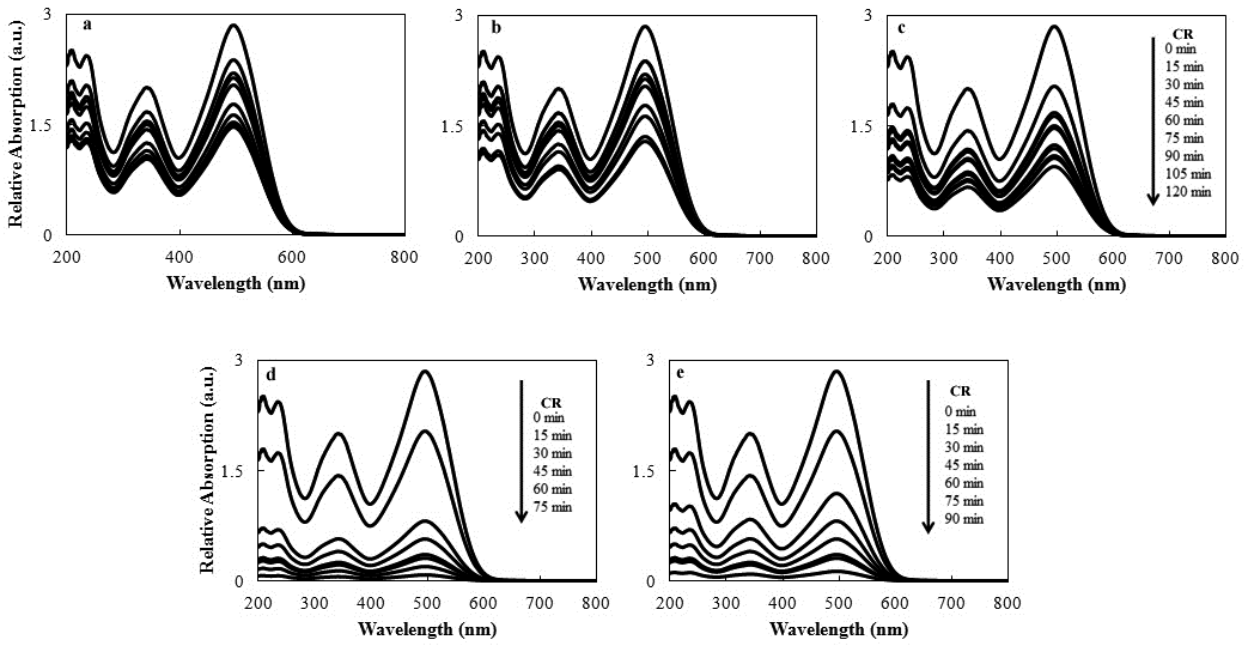

Fig. S3 Reaction kinetics of photocatalytic degradation of CR.

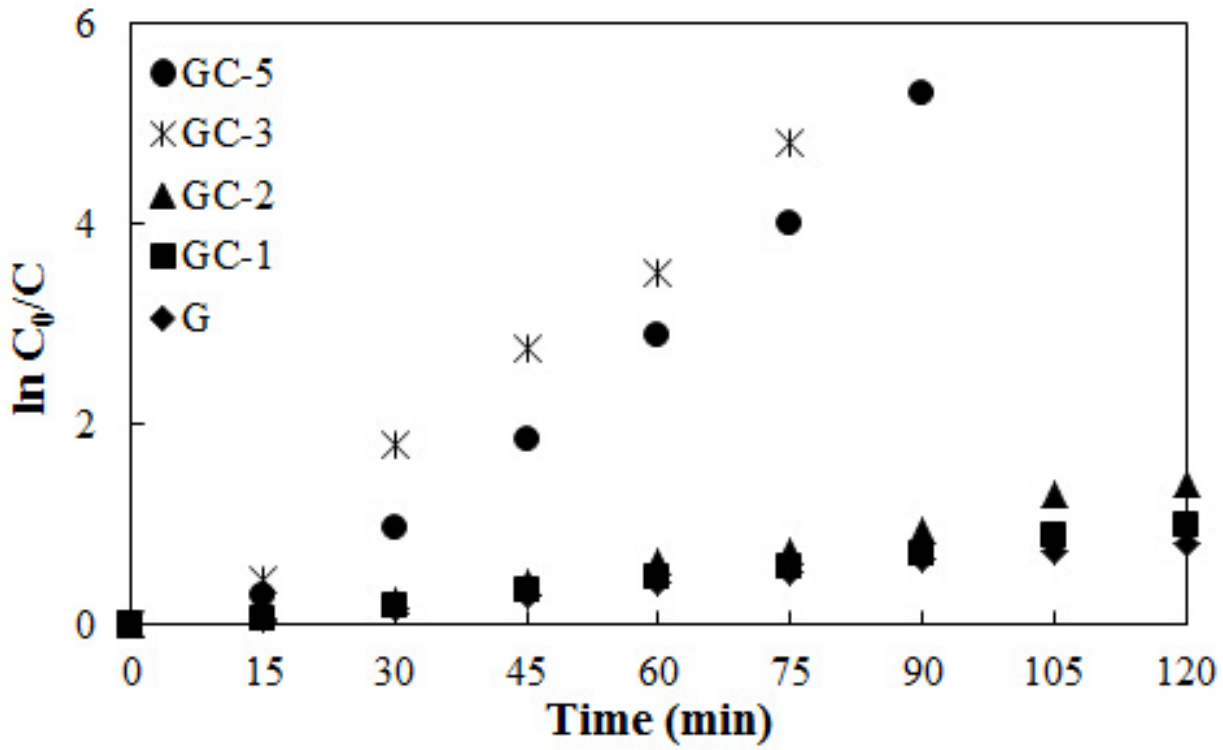

Fig. S4 Change of COD removal efficiency in the process of GC-3 photocatalyst.