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Highly efficient photocatalysis by zinc oxide-reduced graphene oxide (ZnO-rGO) composite synthesized via one-pot room-temperature chemical deposition method

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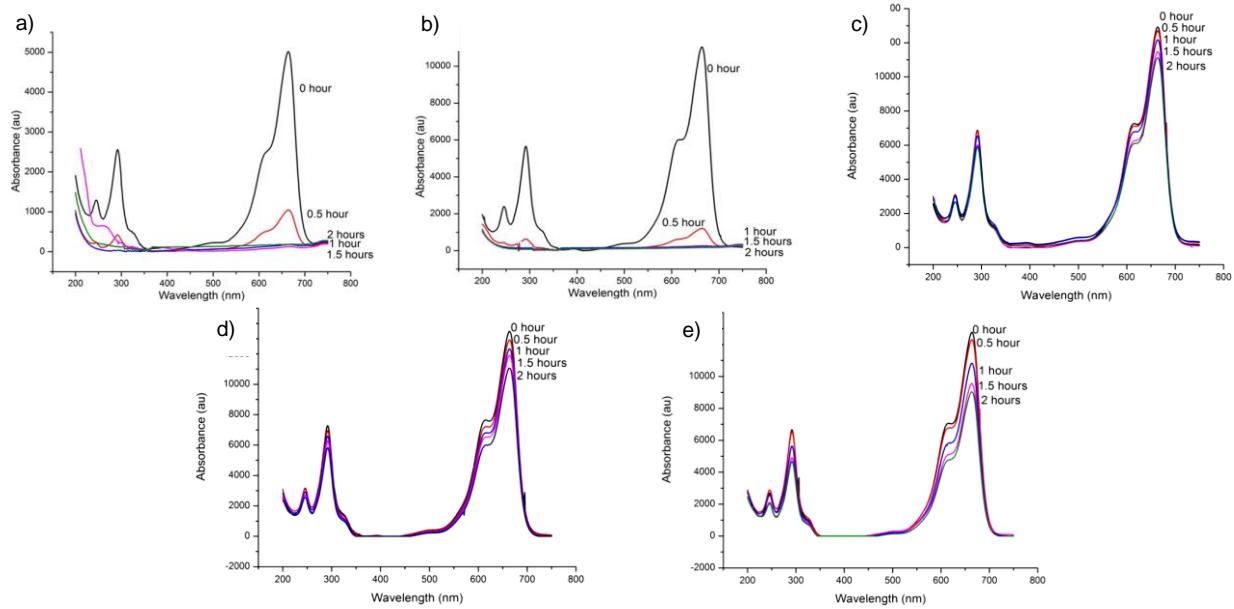


Figure 1S. Absorbance spectra of MB using a) ZG1, b) ZG2, c) ZG3, d) ZG4, and e) ZG5 for different UV irradiation time intervals.

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Table 1S Photocatalytic rate constant (k) of ZnO and ZnO-reduced Graphene oxide composites on photodegradation of Methylene Blue (MB)

Catalyst	Photocatalytic rate constant (k)
ZG1	0.1109 min^{-1}
ZG2	0.1253 min^{-1}
ZG3	0.0027 min^{-1}
ZG4	0.0032 min^{-1}
ZG5	0.0063 min^{-1}
ZnO	0.0683 min^{-1}

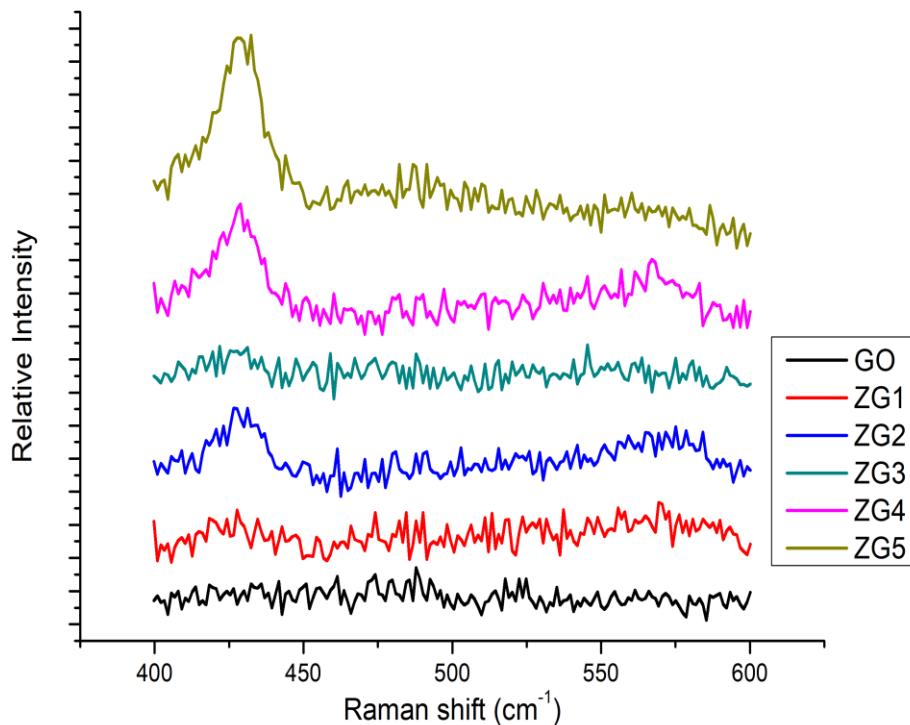


Figure 2S. Raman spectroscopy measurements of samples GO, ZG2, ZG3, ZG4 and ZG5 for the range corresponding to ZnO vibrational modes