

# Antioxidant, Anti-Bacterial, and Congo Red Dye Degradation Activity of Ag<sub>x</sub>O-Decorated Mustard Oil-Derived rGO Nanocomposites

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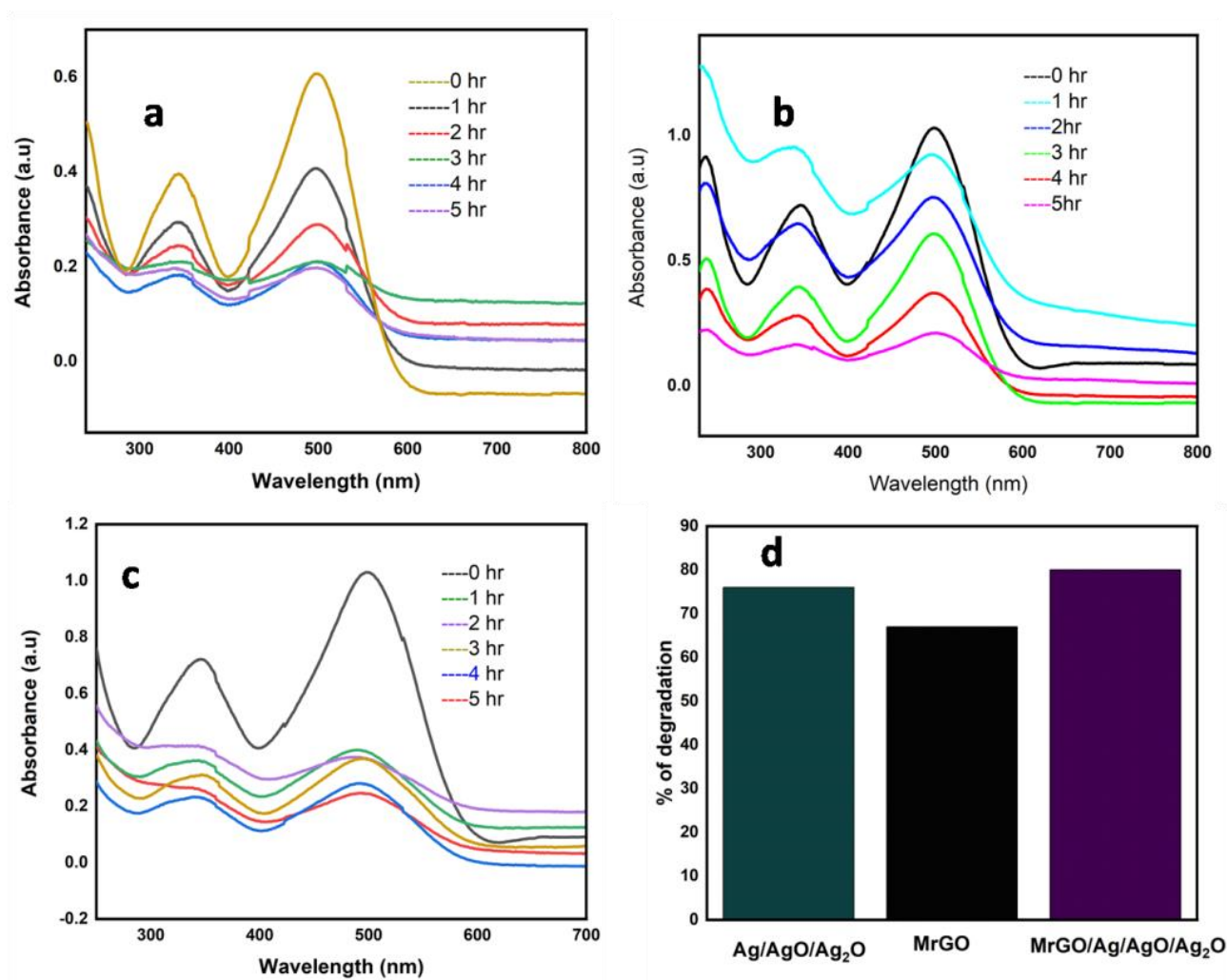
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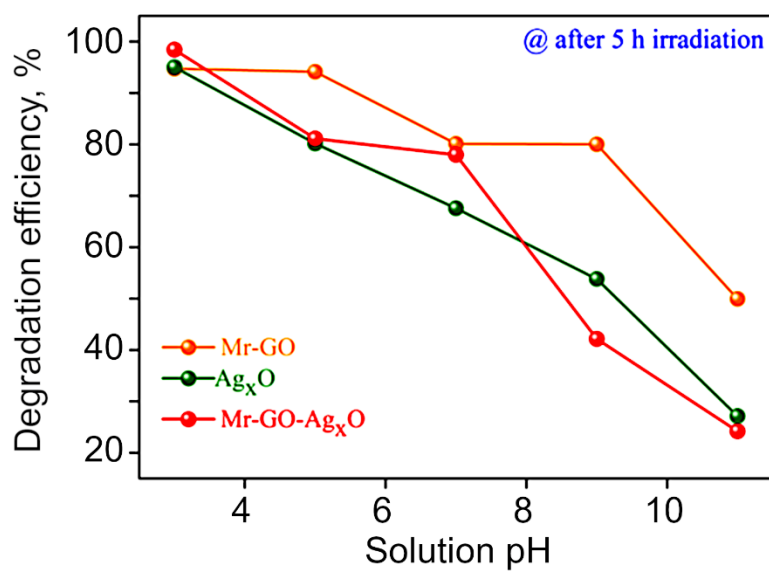
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**Figure S1.** Effect of contact time on the photodegradation of CR dye using (a) M-rGO, (b) M-rGO-Ag<sub>x</sub>O nanocomposite, (c) Ag<sub>x</sub>O nanocomposites and (d) CR degradation efficiency after 5 h irradiation.



**Figure S2.** Percentage of CR degradation at various solution pH after 5 h irradiation.