

## Reduced Graphene Oxide Supported ZnO Quantum Dots for visible Light Induced Simultaneous Removal of Tetracycline and Cr(VI)

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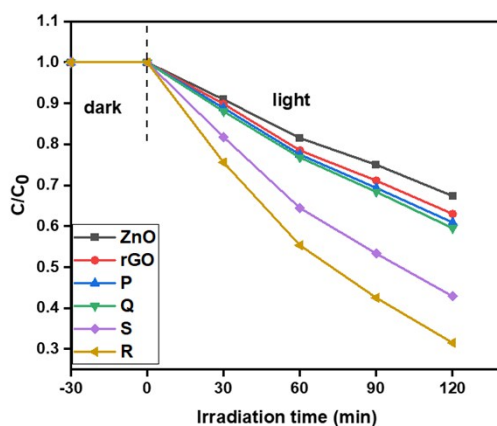
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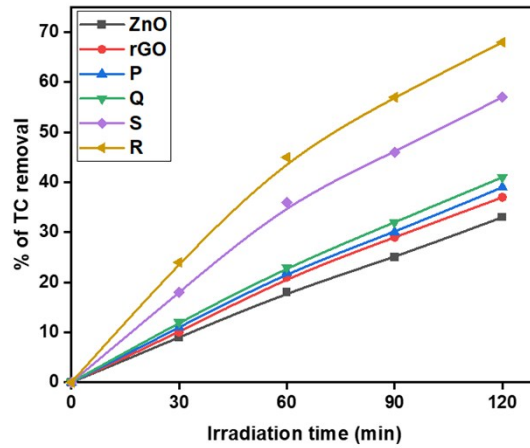
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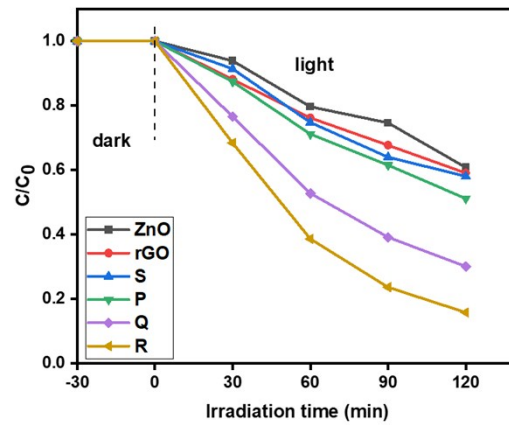
### Supporting Information:



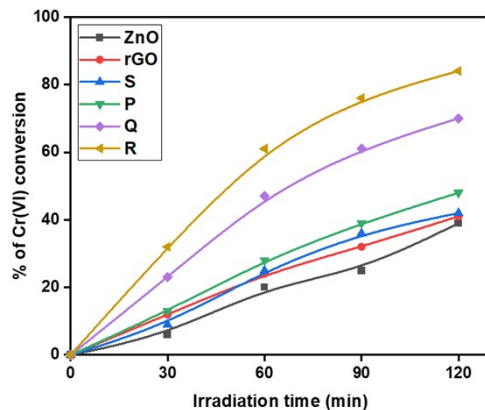
**Fig. S1:** Degradation profiles of tetracycline in aqueous solution. ZnO percentage vary from 0.5% to 2%, Irradiation Time=120 min, catalyst amount=50mg/L, Tetracycline concentration=20 ppm.



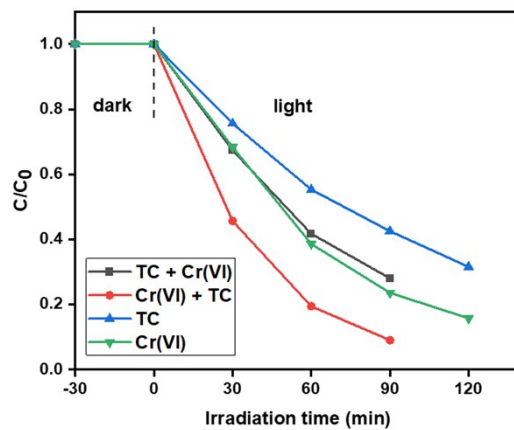
**Fig. S2:** Degradation percentages of tetracycline in aqueous solution. ZnO percentage vary from 0.5% to 2%, Irradiation Time=120 min, catalyst amount=50mg/L, Tetracycline concentration=20 ppm.



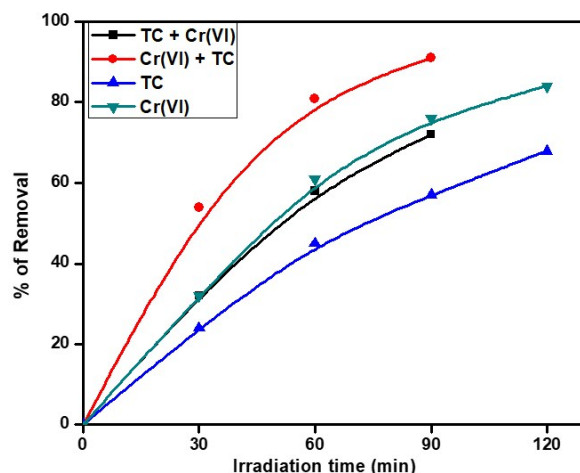
**Fig. S3:** The degradation profiles of Cr(VI) in aqueous solution. ZnO percentage vary from 0.5% to 2%, Irradiation Time=120 min, catalyst amount=50 mg/L, Cr(VI) concentration=20 ppm.



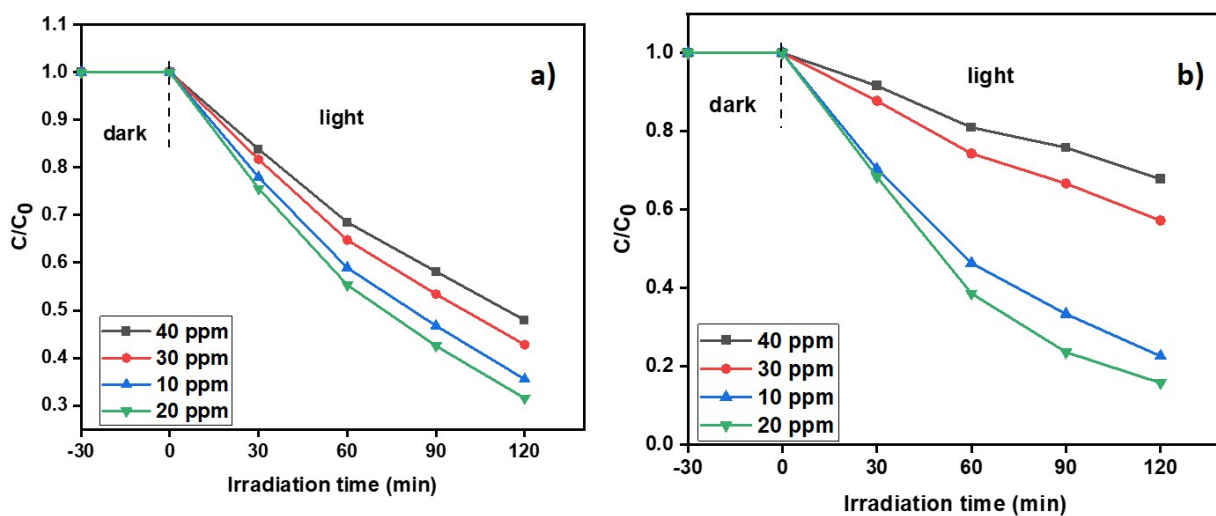
**Fig. S4:** Degradation percentages of Cr(VI) in aqueous solution. ZnO percentage vary from 0.5% to 2%, Irradiation Time=120 min, catalyst amount=50mg/L, Cr(VI) concentration=20 ppm.



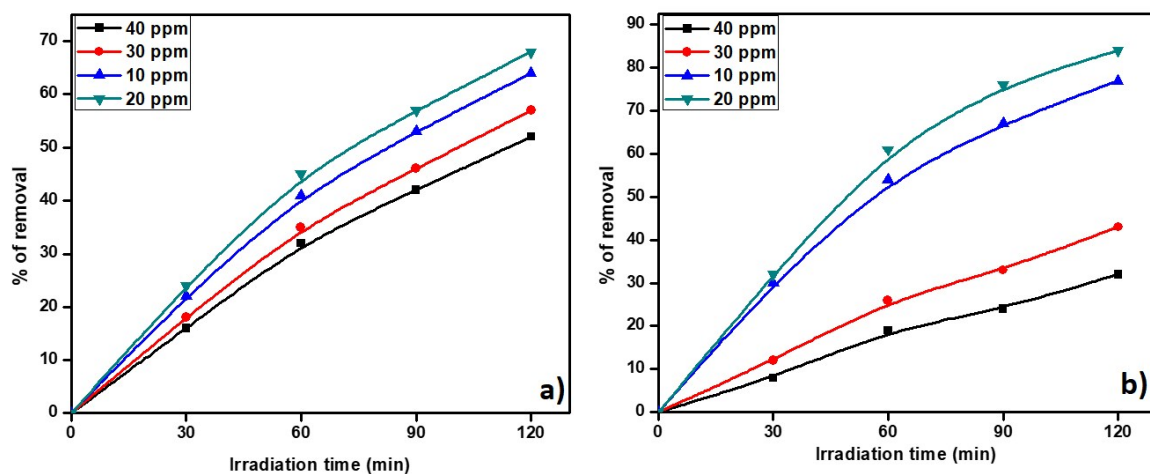
**Fig. S5:** The degradation profiles of simultaneous removal of tetracycline and Cr(VI) Irradiation time = 120 min, catalyst amount **R** = 50 mg/L.



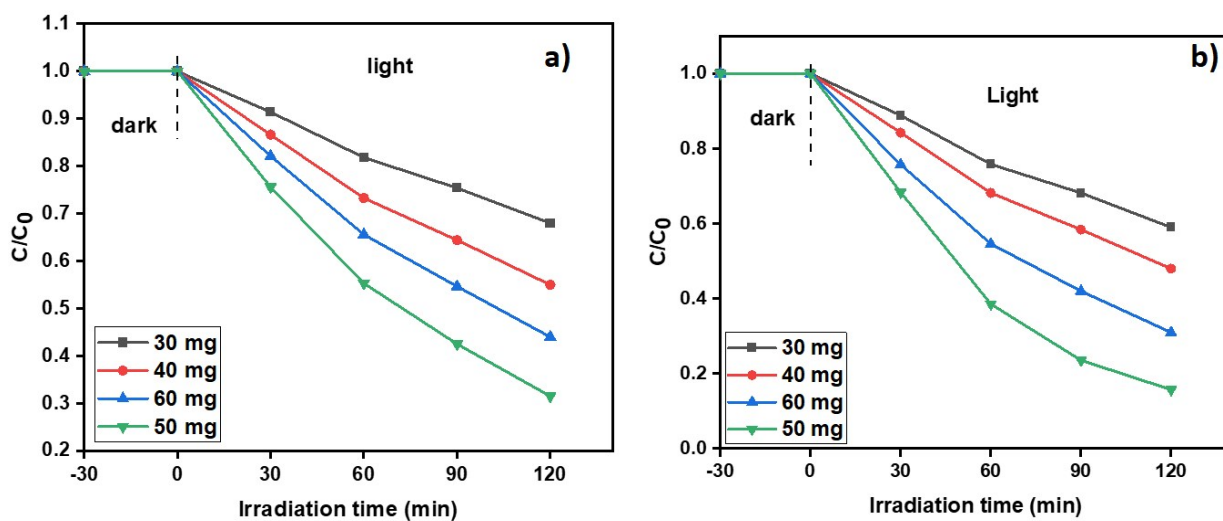
**Fig. S6:** The degradation percentages of simultaneous removal of tetracycline and Cr(VI) Irradiation time = 120 min, catalyst amount  $R = 50$  mg/L.



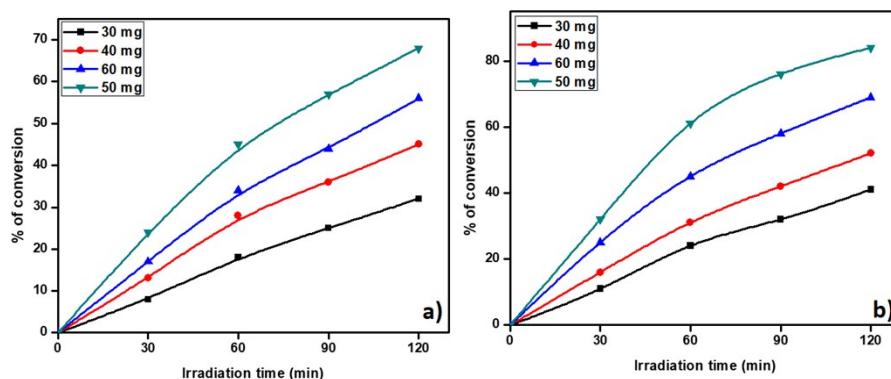
**Fig. S7:** The degradation profiles of various (a) tetracycline and (b) Cr(VI) concentration. Irradiation time = 120 min, catalyst amount  $R = 50$  mg/L.



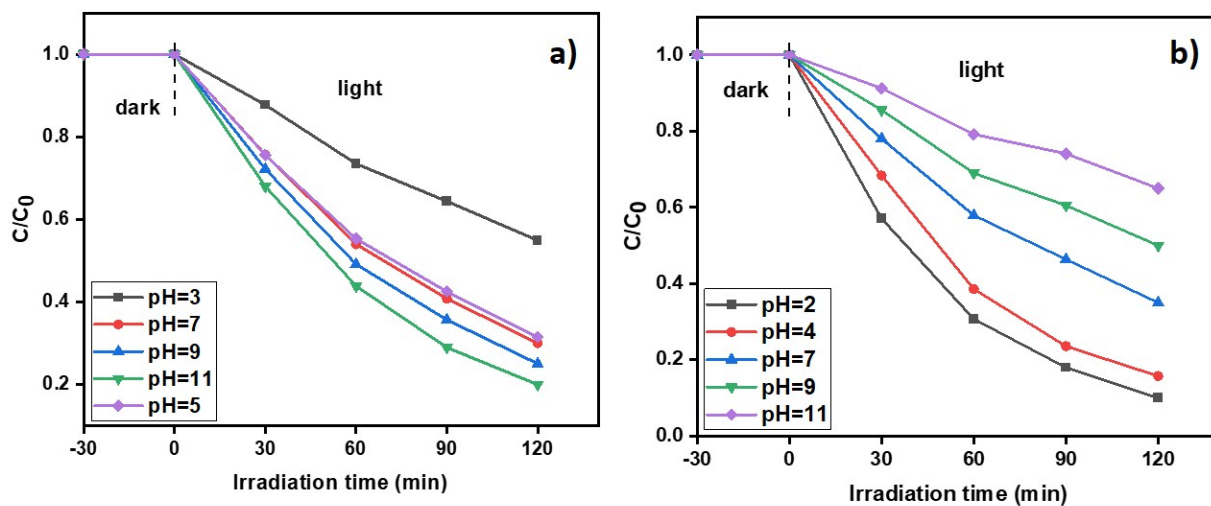
**Fig. S8:** The degradation percentages of various (a) tetracycline and (b) Cr(VI) concentration. Irradiation time = 120 min, catalyst amount  $R = 50$  mg/L.



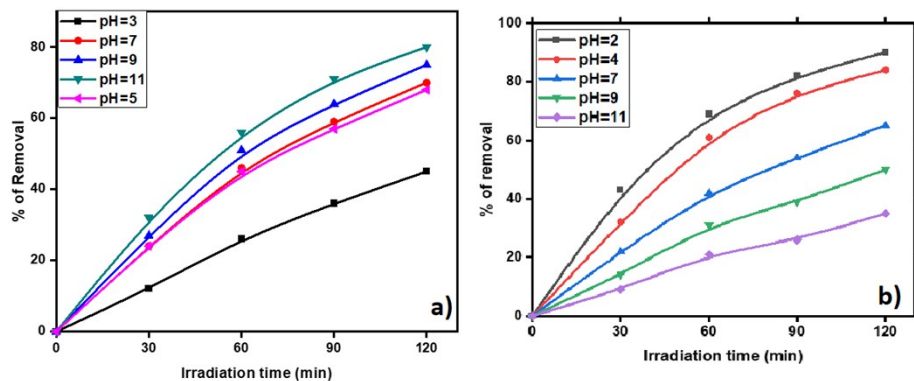
**Fig. S9:** The degradation profiles of different amounts of catalysts. Irradiation time = 120 min, Tetracycline concentration = 20 ppm, Cr(VI) concentration = 20 ppm



**Fig. S10:** The degradation percentages of different amounts of catalysts. Irradiation time = 120 min, Tetracycline concentration = 20 ppm, Cr(VI) concentration = 20 ppm



**Fig. S11:** The degradation profiles of various pH values. Irradiation time = 120 min, catalyst amount R = 50 mg/L, Tetracycline concentration = 20 ppm, Cr(VI) concentration = 20 ppm.



**Fig. S12:** The degradation percentages of various pH values. Irradiation time =120 min, catalyst amount R = 50 mg/L, Tetracycline concentration = 20 ppm, Cr(VI) concentration = 20 ppm.