

Supplementary material

Synthesis of novel Yttrium-doped graphene oxide nanocomposite for dye removal

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Figure S1. Comparison of photodegradation efficiency using as-synthesized GO, Y_2O_3 and 5 GOY composite. MB concentration: 25 ppm (before adsorption), pH = 4.1. Dosage: 8 mg.

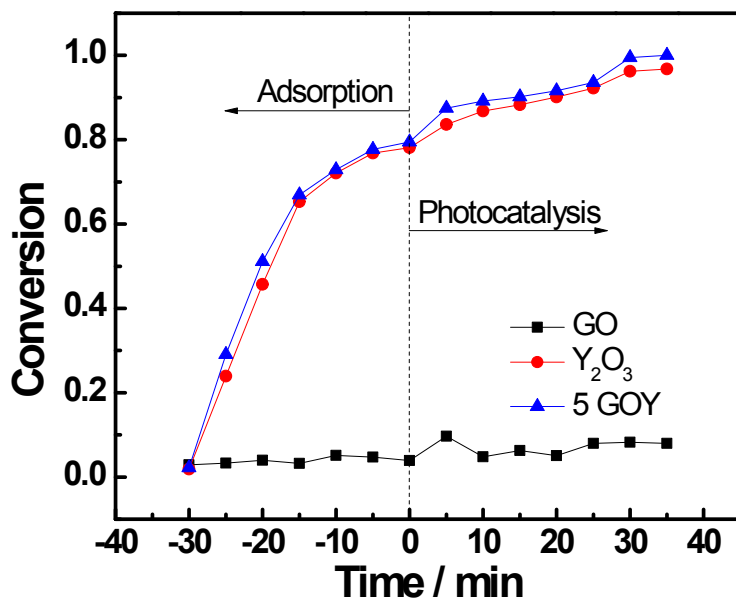


Figure S2. O1s spectra of Y_2O_3 (A) and 5 GOY (B).

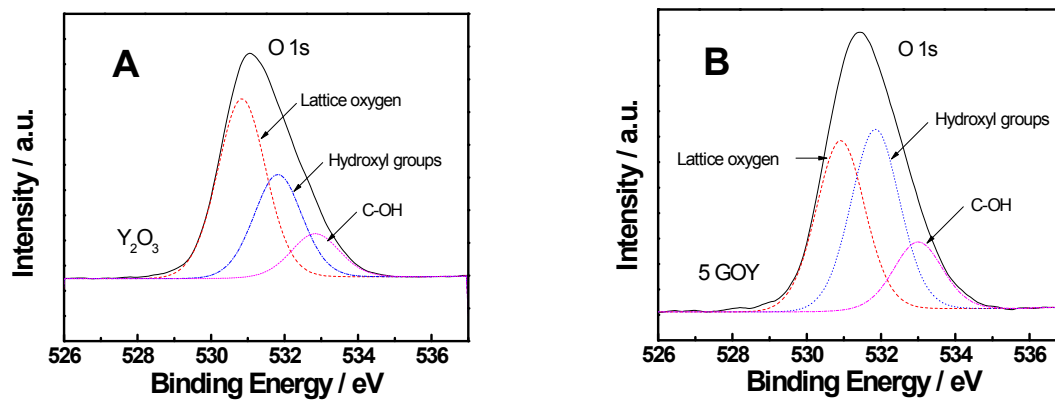


Table S1 Oxygen Composition (in at.%) of Y_2O_3 and 5 GOY samples at different states

Samples	O 1s Scan A	O 1s Scan B	O 1s Scan C
	~530.9 eV	~531.8 eV	~533.0 eV
Y_2O_3	30.93	16.75	7.45
5 GOY	18.12	19.92	7.12

Figure S3. Comparison of photodegradation efficiency using as-synthesized 5 GOY and TiO₂ P25. MB concentration: 25 ppm (before adsorption), pH = 4.1.

