Supporting information

Nanosorbecats of methylene blue on Novel Fe$_2$O$_3$ nanorods for photocatalytic water oxidation

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Fig.S1. (a) Water oxidation activity of MB@pfa@Fe$_2$O$_3$ (5 mg) in water (5 ml) at 298 K, and irradiated with red LED light (10 W). (b) water oxidation activity of pfa@Fe (5 mg) in the presence of Ru$^{II}$ (bpy)$_3^{2+}$ (0.1 M, 200 μL) in water (5 ml) at 298 K, and irradiated with red LED light (10 W).
Fig.S2. Water oxidation activity of MB@pfa@Fe$_2$O$_3$ (10 mg) in water solution (5 ml) at 298 K.  

a) irradiated with red LED light (10 W); b) irradiated with blue LED light (10 W).

Fig. S3 Water oxidation of MB@pfa@Fe$_2$O$_3$ in three consecutive runs. (a: first run; b: second run; c: third run).