

# Supplementary Materials: Enhancement of TiO<sub>2</sub> NPs Activity by Fe<sub>3</sub>O<sub>4</sub> Nano-Seeds for Removal of Organic Pollutants in Water

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**Table S1.** Percent degradation of MB for the different materials. The experimental values are averaged over three replicates.

	Time (min)	20	40	60	80	100	120
Sample A	D%	1.1	11.9	26.4	41.9	60.4	74.9
	SD	0.5	2.1	2.2	3.9	0.7	3.5
Sample B	D%	18.9	43.7	63.3	77.0	86.9	94.6
	SD	4.3	6.0	9.2	8.9	5.7	2.3
Sample C	D%	2.4	9.7	21.4	35.3	49.5	64.7
	SD	0.7	1.3	4.1	4.8	6.3	8.0
Sample D	D%	0.6	0.9	2.1	4.3	10.4	17.9
	SD	0.2	0.1	<0.1	1.6	1.6	4.6
P25	D%	10.0	34.0	47.6	62.3	72.6	83.1
	SD	0.5	0.6	0.5	0.6	1.9	3.2
Fe <sub>3</sub> O <sub>4</sub>	D%	0.8	0.1	0.9	1.1	1.2	1.4
	SD	<0.1	0.8	0.1	0.9	<0.1	<0.1

**Table S2.** OFL percentage concentration under photolytic (OFL) and photocatalytic (OFL + Cat.) degradation under simulated solar light. The experimental points are averaged over three replicates. The D% values in Figure 5 are calculated according to the equation in 3.5 paragraph.

Time (min)	OFL		OFL + Cat.		
	OFL%	SD	Time (min)	OFL%	SD
10	62.3	2.0	2	69.3	3.0
20	38.4	1.8	5	37.5	0.1
30	21.0	0.5	7	16.9	0.6
40	10.8	0.5	10	3.6	0.1
50	4.8	0.1	15	0	<0.1
60	1.5	<0.1			