

Table S1. Design Table with actual vs predicted values of photocatalytic efficiency.

Std	Run	Irradiation Time (min)	pH	AN Conc. ppm	Actual Value	Predicted Value
1	1	30	3	40	86.5702	86.31
2	2	45	3	40	91.219	89.38
3	3	30	5	40	86.5702	85.45
4	4	45	5	40	87.1901	87.74
5	5	30	3	80	95.4545	94.43
6	6	45	3	80	95.0413	95.69
7	7	30	5	80	91.374	92.74
8	8	45	5	80	93.4401	93.23
9	9	24.8866	4	60	88.4986	88.89
10	10	50.1134	4	60	91.5978	91.88
11	11	37.5	2.31821	60	95.0413	96.29
12	12	37.5	5.68179	60	94.0771	93.50
13	13	37.5	4	26.3641	79.621	80.98
14	14	37.5	4	93.6359	93.1152	92.42
15	15	37.5	4	60	95.7989	91.30
16	16	37.5	4	60	91.2534	91.30
17	17	37.5	4	60	88.4298	91.30
18	18	37.5	4	60	90.6336	91.30
19	19	37.5	4	60	91.1846	91.30
20	20	37.5	4	60	90.6336	91.30

Table S2. Absorbance vs irradiation time at different AN concentration.

AN Concentration (mg L ⁻¹)	Absorbance Values				
	10 min	20 min	30 min	40 min	50 min
20	0.3632	0.227	0.151333	0.121067	0.106824
40	0.227	0.165091	0.121067	0.100889	0.086476
60	0.1816	0.139692	0.106824	0.0908	0.078957
80	0.151333	0.121067	0.100889	0.086476	0.07264