

Table S1. Dyes degradation Standard Deviation

Time	Photolysis	SD	UV/H ₂ O ₂ 0.07	SD	UV/H ₂ O ₂ 0.05	SD	TiO ₂	SD
0	100	0	100	0	100	0	100	0
60	96.25	1.36	99.83	1.45	99.66	1.97	100	1.18
120	91.10	1.74	75.53	1.58	83.85	1.88	83.02	1.94
180	90.50	2.41	68.47	1.69	82.82	1.75	66.04	1.65
240	82.37	2.01	64.49	1.51	74.23	1.15	50.94	1.48
300	81.57	1.84	58.29	1.92	72.16	2.11	43.40	1.96
360	68.69	1.79	49.02	2.39	41.92	2.65	41.51	1.93
420	62.16	1.97	38.56	2.14	40.21	2.10	41.36	2.05

Table S2. Bacteria Removal Standard deviation

Time	Photolysis	SD	UV/H ₂ O ₂ 0,05	SD	UV/H ₂ O ₂ 0,07	SD	TiO ₂	SD	UV/H ₂ O ₂ - TiO ₂	SD
0	100	0	100	0	100	0	100	0	100	0
180	91.03	2.50	92.80	1.87	91.91	2.10	85.12	1.98	82.41	1.50
300	85.81	2.40	87.51	1.70	86.80	1.90	73.21	2.60	67.74	1.68
420	79.89	1.70	82.41	2.10	81.30	2.40	60.46	2.10	50.71	1.54

Table S3. TOC Standard deviation

Time	Photolysis	SD	UV/H ₂ O ₂ 0,05	SD	UV/H ₂ O ₂ 0,07	SD	TiO ₂	SD	UV/H ₂ O ₂ - TiO ₂	SD
0	100	0	100	0	100	0	100	0	100	0
120	98.25	1.51	98.54	1.42	99.35	1.99	95.99	1.54	95.48	1.54
240	97.04	2.04	95.09	1.56	98.8	1.01	92.71	1.01	91.16	1.63
420	96.24	1.74	94.63	1.84	98.28	1.50	91.04	1.78	87.04	1.74