

Supplementary Information

Table S1. Analysis of variance for the influence of time and irradiation on the degradation efficiency for TCS under simulated solar irradiation

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Square	F	p-value Prob > F
Model	2346.36	5	469.27	6.14	0.0236
T	781.84	1	781.84	10.22	0.0187
I	708.73	1	708.73	9.27	0.0227
T·I	3.40	1	3.40	0.0445	0.8399
T²	521.23	1	521.23	6.82	0.0401
I²	548.65	1	548.65	7.18	0.0366
Residual	458.80	6	76.47		
Lack of fit	457.99	3	152.66	568.94	0.0001
Error	0.8050	3	0.2683		
Total	2805.16	11			

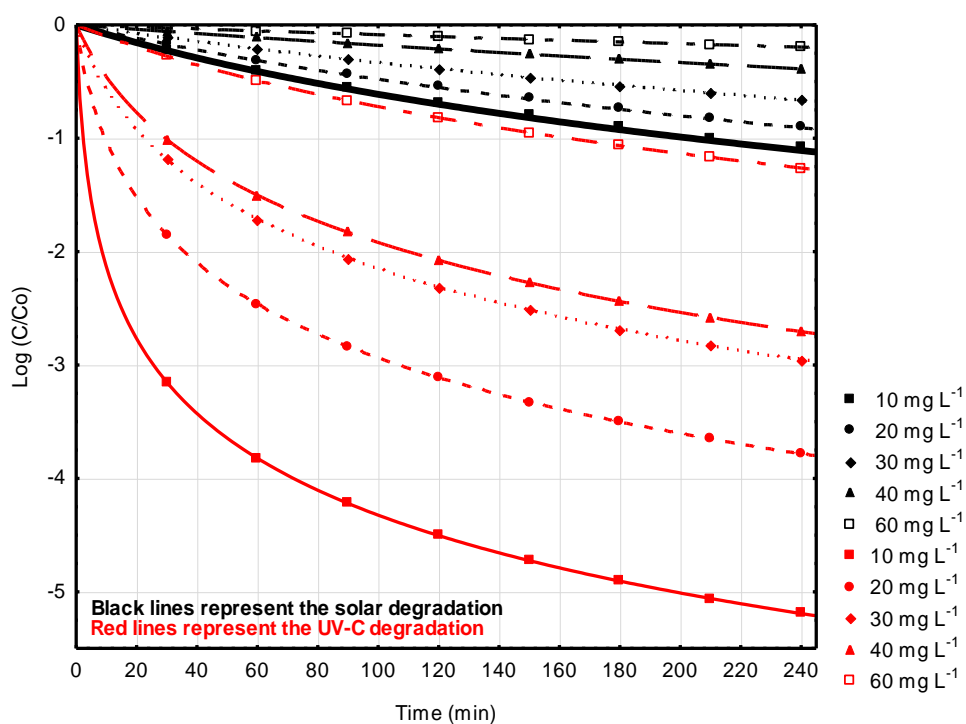
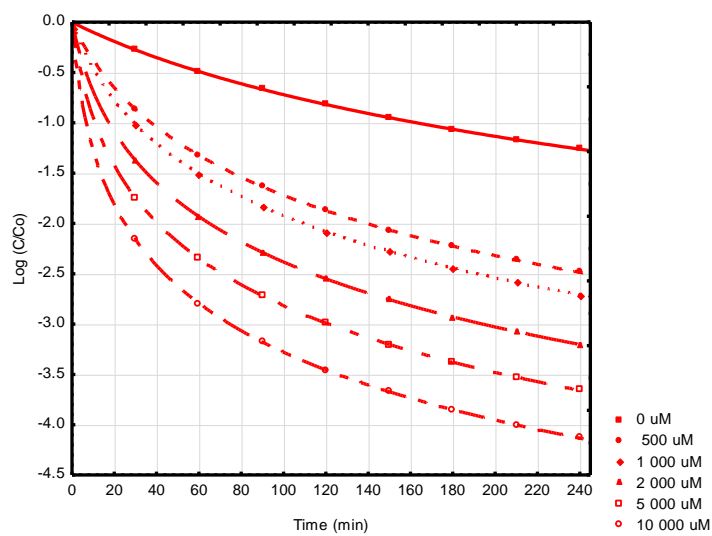
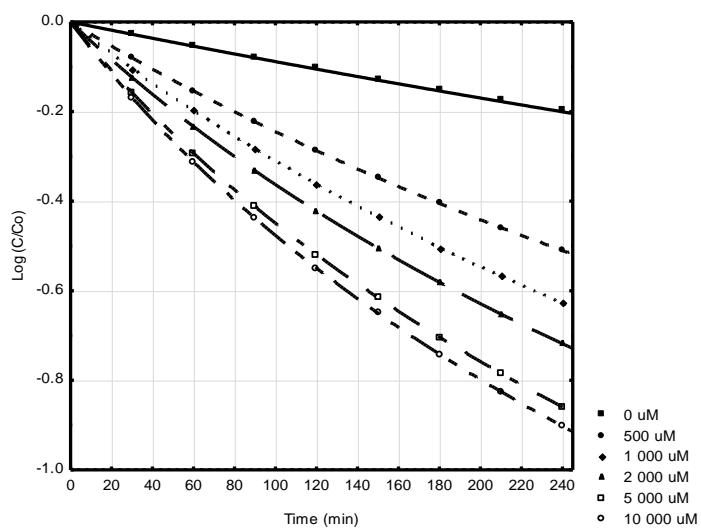


Figure S1. Effect of the initial concentration of TCS at 25 °C on UV-C and solar photodegradation. Lines represent the logarithmic second- order kinetic curves.



a)



b)

Figure S2. Photodegradation degradation curves (logarithmic) of TCS in a) UV-C/S₂O₈²⁻ and b) sunlight/S₂O₈²⁻ systems. [TCS]₀ = 60 mg L⁻¹; pH = 7.0.