Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Table S1. The best concentrations of polymer samples and the best potentials and times obtained

Run	C ($mg.l^{-1}$)	P (w)	T (s)	Response(uv)
1	6	80	85	0.79
2	8	150	100	0.68
3	4	150	100	0.52
4	6	115	85	0.85
5	8	150	70	0.65
6	6	115	85	0.85
7	6	115	85	0.85
8	4	80	100	0.55
9	6	150	85	0.75
10	4	150	70	0.56
11	8	115	85	0.70
12	8	80	100	0.64
13	6	115	70	0.67
14	4	115	85	0.59
15	6	115	85	0.85
16	4	80	70	0.50
17	6	115	85	0.85
18	6	115	85	0.85
19	6	115	100	0.65
20	8	80	70	0.64

Table S2. ANOVA for Quadratic model

Source	Sum of Squares	df	Mean Square	F-Value	P-Value
Model	0.2614	9	0.0290	11.96	0.0003
A-C	0.0348	1	0.0348	14.34	0.0036
B-P	0.0002	1	0.0002	0.0659	0.8026
C-Time	0.0000	1	0.0000	0.0165	0.9004
AB	0.0000	1	0.0000	0.0206	0.8887
AC	0.0000	1	0.0000	0.0206	0.8887
BC	0.0005	1	0.0005	0.1853	0.6760
A^2	0.0436	1	0.0436	17.95	0.0017
B^2	2.273E-06	1	2.273E-06	0.0000	0.9762
C^2	0.0338	1	0.0338	13.93	0.0039
Residual	0.0243	10	0.0024		
Lack of Fit	0.0243	5	0.0049		
Pure Error	0.0000	5	0.0000		