

Electronic Supplementary Information (ESI)

Photo-crosslinked coatings based on 2-hydroxypropyl acrylamide for the prevention of biofouling

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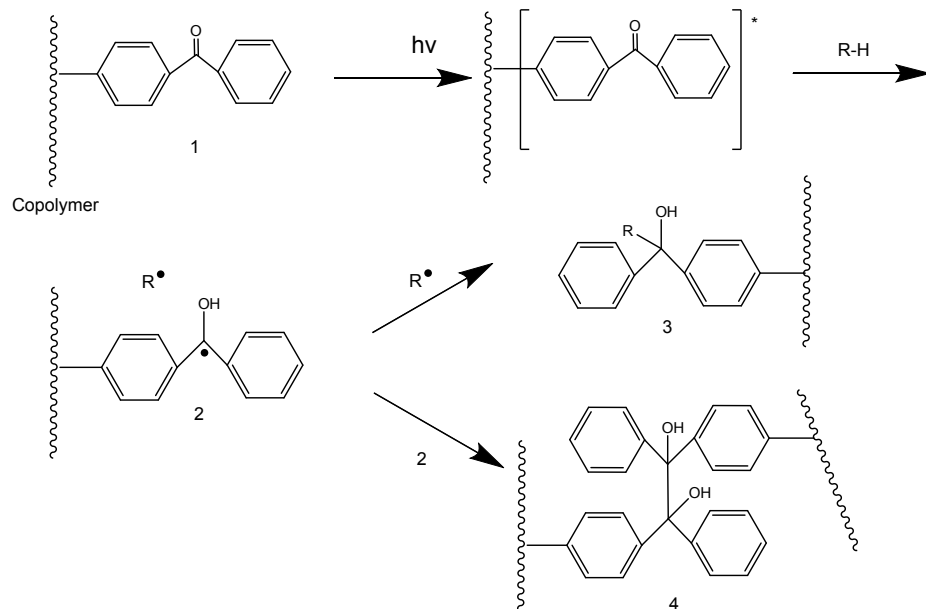
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Supporting Results



Scheme S1. Radical reaction pathways of benzophenone containing copolymers.

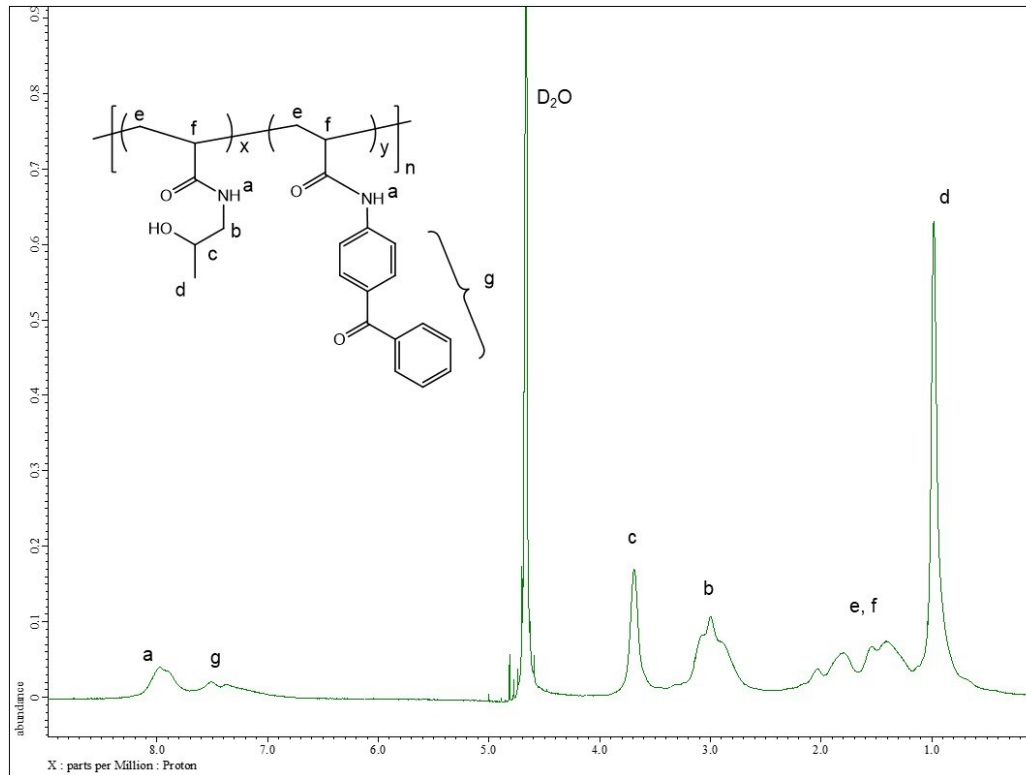
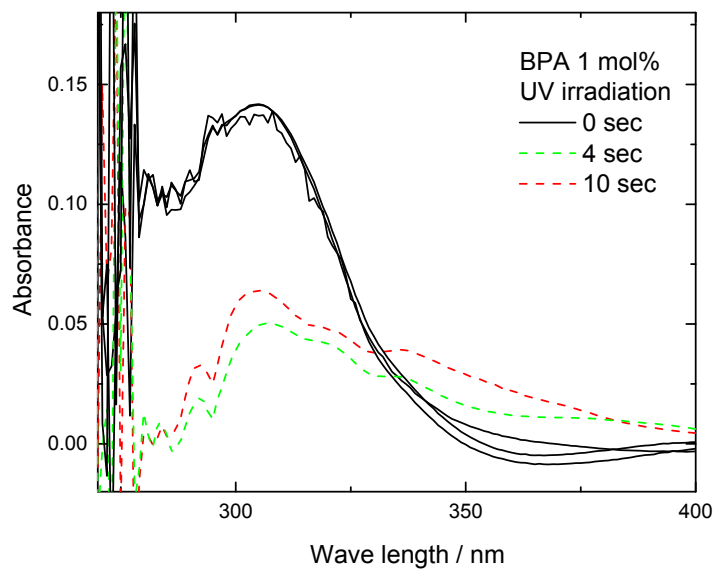


Figure S1. ^1H NMR spectrum of poly(HPA₉₅-*r*-BPA₅).

(a)



(b)

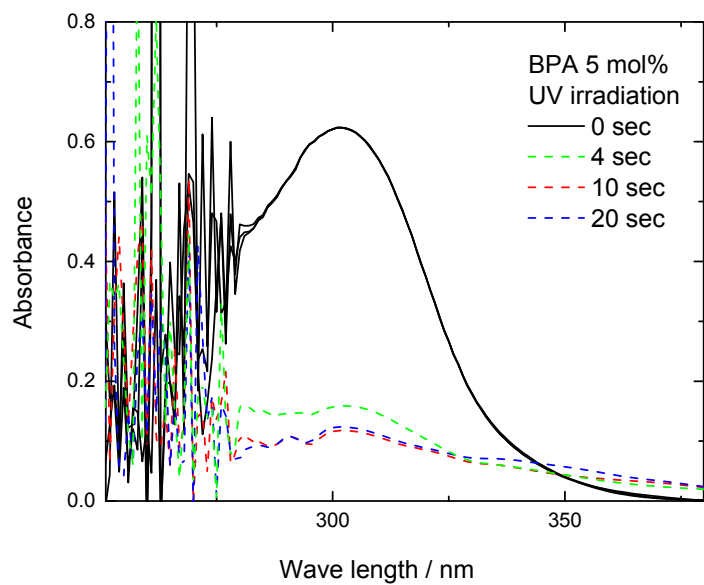


Figure S2. UV-VIS spectra where the BPA content in the copolymer was (a) 1 mol% and (b) 5 mol%.

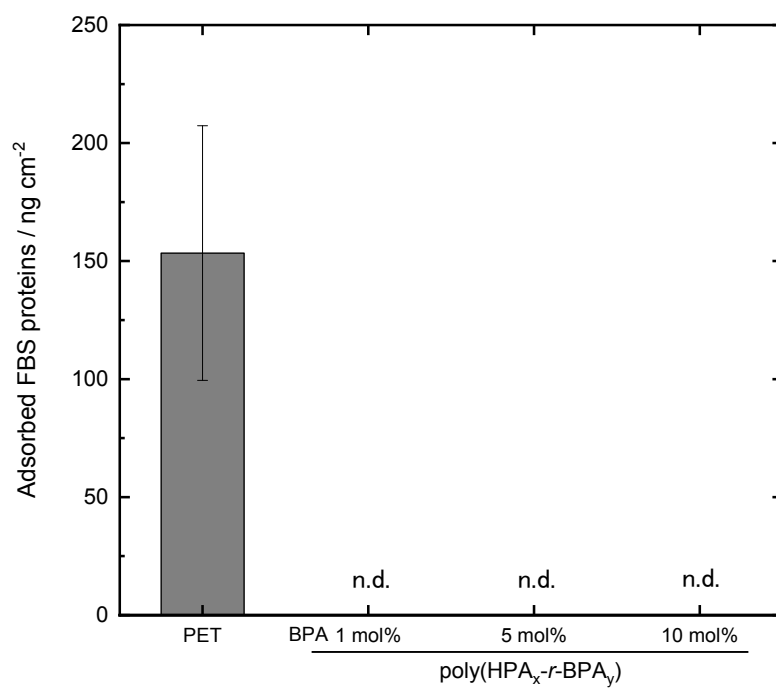


Figure S3. Amount of adsorbed FBS proteins on coatings prepared on PET films.

Table S1. Dry thicknesses of coatings on silicon wafers before and after EtOH washing.

BPA content	Dry thickness / nm	
	Before	After
1 mol%	87 ± 6	84 ± 30
5 mol%	138 ± 10	135 ± 19
10 mol%	137 ± 9	125 ± 12

Table S2. Dry thicknesses of coatings on silicon wafers before and after incubation in PBS.*

BPA content	Dry thickness / nm	
	Before	After
1 mol%	138 ± 0.4	136 ± 1.5
5 mol%	115 ± 8.7	118 ± 19
10 mol%	156 ± 4.2	158 ± 3.7

*The coatings prepared on silicon wafers were incubated in PBS at 25 °C for 24 h and then washed with water. The thickness was measured by an ellipsometer. The data obtained from two independent samples were averaged.

Table S3. The wettability of coatings prepared on PET films*.

BPA content	Contact angle / degree
1 mol%	42 ± 0.4
5 mol%	42 ± 0.8
10 mol%	45 ± 1.5

*Pristine PET film: 67 ± 2.0 degree