Table S1. The contact angle and the dispersion surface energy (γ_S^d) of the gradient polymer film (PTPGDA) initiated by HBP-Si-B/C

Team	θ (H_2O)/^{O}	γ_S^d (H_2O)/ (mN/m)
HBP-Si-B (1.0×10^{-3}mol/L)	72.96	92.43
HBP-Si-B (4.0×10^{-3}mol/L)	79.91	76.35
HBP-Si-B (8.0×10^{-3}mol/L)	87.86	59.49
HBP-Si-B (2.5×10^{-2}mol/L)	96.24	43.92
HBP-Si-C (1.0×10^{-3}mol/L)	74.32	89.21
HBP-Si-C (4.0×10^{-3}mol/L)	82.67	70.29
HBP-Si-C (8.0×10^{-3}mol/L)	90.03	55.23
HBP-Si-C (2.5×10^{-2}mol/L)	99.69	38.24

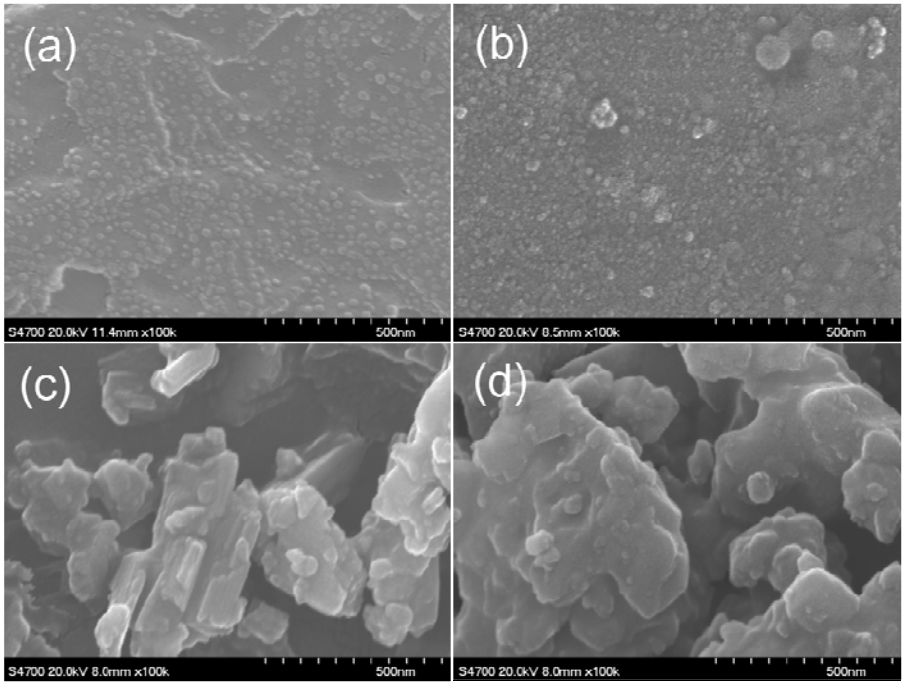

Fig. S1 SEM images of the polymer films (PTPGDA) initiated by different concentration of HBP-Si-B ((a) 1.0×10^{-3} mol/L (b) 4.0×10^{-3} mol/L (c) 8.0×10^{-3} mol/L (d) 2.5×10^{-2} mol/L) and TEOA (3.3×10^{-2} mol/L)

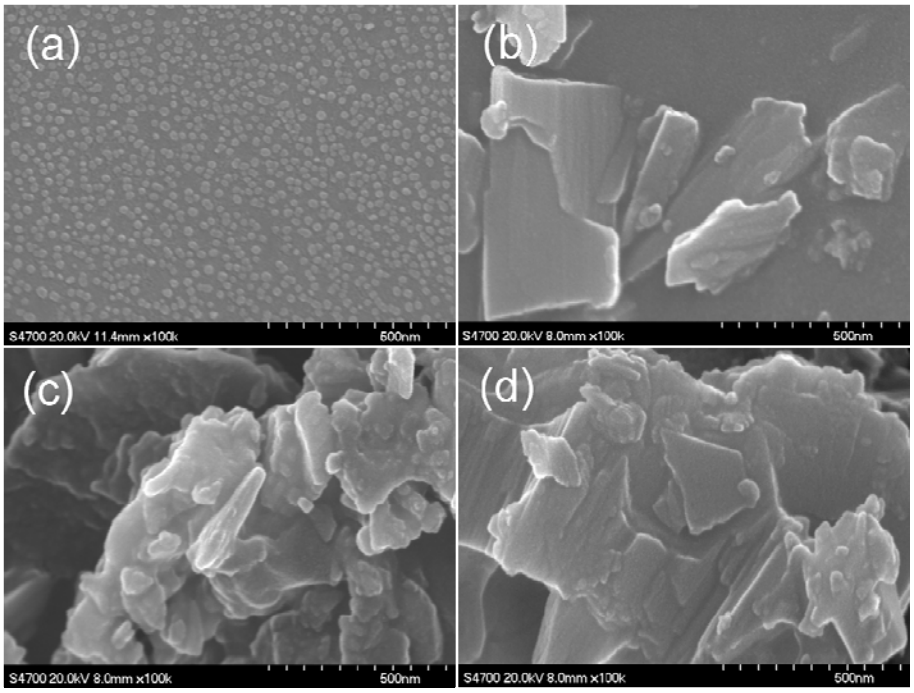

Fig. S2 SEM images of the polymer films (PTPGDA) initiated by different concentration of HBP-Si-C ((a) 1.0×10^{-3} mol/L (b) 4.0×10^{-3} mol/L (c) 8.0×10^{-3} mol/L (d) 2.5×10^{-2} mol/L) and TEOA (3.3×10^{-2} mol/L)